(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 April 2017 (06.04.2017)

(10) International Publication Number
WO 2017/055324 A1

(51) International Patent Classification:
C12Q 1/68 (2006.01)

(21) International Application Number:
PCT/EP2016/073055

(22) International Filing Date:
28 September 2016 (28.09.2016)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
EP15306522.2 29 September 2015 (29.09.2015) EP
EP16305888.6 12 July 2016 (12.07.2016) EP

(71) Applicants: **INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE)** [FR/FR]; 101, rue de Tolbiac, 75013 Paris (FR). **UNIVERSITÉ PARIS DIDEROT - PARIS 7** [FR/FR]; 5, rue Thomas Mann, 75013 Paris (FR). **UNIVERSITÉ PIERRE ET MARIE CURIE (PARIS 6)** [FR/FR]; 4, place Jussieu, 75005 Paris (FR). **UNIVERSITÉ PARIS DESCARTES** [FR/FR]; 12, rue de l'Ecole de Médecine, 75006 Paris (FR). **LIGUE NATIONALE CONTRE LE CANCER** [FR/FR]; 14 rue Corvisart, 75013 Paris (FR). **ASSISTANCE PUBLIQUE-HÔPITAUX DE PARIS (APHP)** [FR/FR]; 3, avenue Victoria, 75004 Paris (FR).

(72) Inventors: **FRIDMAN, Wolf Herman**; Centre de Recherche les Cordeliers / INSERM U1138, 15 rue de l'Ecole de Médecine, 75270 Paris (FR). **DE REYNIES, Aurélien**; Ligue Nationale Contre le Cancer, Programme CIT, 14 rue Corvisart, 75013 Paris (FR). **BECHT, Etienne**; INSERM UMRS1138, Equipe 13, 15 rue de l'Ecole de Médecine, 75006 Paris (FR).

(74) Agent: **COLLIN, Matthieu**; Inserm Transfert 7 rue Watt, 75013 Paris (FR).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report (Art. 21(3))*

(54) Title: METHODS FOR QUANTIFYING THE POPULATION OF CELLS OF MONOCYTIC ORIGIN IN A TISSUE SAMPLE

(57) **Abstract**: The present invention relates to methods for quantifying the population of cells of monocytic origin in a tissue sample. In particular, the present invention relates to a method for quantifying the population of cells of monocytic origin in a tissue sample obtained from a subject comprising determining the expression level of at least one gene selected from the group consisting of CSF1R, ADAP2, RASSF4, FPR3, TFEC, PLA2G7 and KYNU.

METHODS FOR QUANTIFYING THE POPULATION OF CELLS OF MONOCYTIC ORIGIN IN A TISSUE SAMPLE

FIELD OF THE INVENTION:

The present invention relates to methods for quantifying the population of cells of monocytic origin in a tissue sample.

BACKGROUND OF THE INVENTION:

Tumors grow within a microenvironment composed of immune cells, endothelial cells, fibroblasts and adjacent normal tissue. The composition of the tumor microenvironment is of paramount importance during tumor development. Notably, infiltration by cells of the adaptive immune system helps control tumor growth and correlate with a favorable clinical outcome in most cancers. A consensual result is that infiltration with memory CD8+ T cells is associated with a favorable patient's outcome. However, there are exceptions to this rule. Notably, in clear cell renal cell carcinoma (ccRCC), where angiogenesis is highly due to mutations disrupting the HIF pathway regulating the cellular response to hypoxia, tumor-infiltration by CD8+ T cells is associated with a poor prognosis for the patient. To understand this surprising result, the inventors recently performed a comprehensive characterization of the microenvironmental components associated to CD8+ T cells' infiltration in ccRCC. It appeared that in this malignancy, CD8+ T cells infiltration is associated with a strong infiltration by other immune cells, including B cells and cells of monocytic origin. Conversely, in colorectal cancer (CRC), it is well known that infiltration by CD8+ T cells is associated with a favorable outcome. This disease is also highly heterogeneous in terms of tumor-cell phenotypes, as up to six molecular subgroups have been described, which differ in carcinogenesis pathways, methylation profile, DNA mutational burden, and prognosis. The subgroup with the best prognosis featured a strong infiltration by cytotoxic lymphocytes. Surprisingly, the worst-prognosis subgroup also displayed a strong immune infiltration, with intermediate expression of lymphocytes' markers and a strong myeloid component, as well as a high signature of endothelial cells and fibroblasts. Further analysis revealed an increased expression of pro-inflammatory and pro-angiogenic molecules in this subgroup, which appear to originate from microenvironment's fibroblasts. Altogether, these data underline the importance of a full characterization of the immune, endothelial and fibroblastic components of the microenvironment to decipher interactions between these cell types and deliver therapies aimed at orienting inflammatory microenvironments towards a more immuneresponsive state.

SUMMARY OF THE INVENTION:

The present invention relates to methods for quantifying the population of cells of monocytic origin in a tissue sample. In particular, the present invention is defined by the claims.

DETAILED DESCRIPTION OF THE INVENTION:

The tumor microenvironment is a complex tissue which contains many distinct cell populations, and whose composition may predict prognosis and response to therapies. In the present disclosure, using samples of purified cell populations, the inventors defined specific and robust transcriptomic markers of the immune and stromal cell populations of the tumor microenvironment, and they quantitatively validated them in an in-vitro RNA mixture model.

For this purpose, they developed the 'Microenvironment Cell Populations-counter' (MCP-counter) method, which, using transcriptomic data, allows a robust quantification of the abundance of immune and stromal populations in cellularly heterogeneous tissues. They present in-vitro and ex-vivo data supporting the validity of this method's estimates and they apply MCP-counter to draw a global picture of immune infiltrates across human healthy tissues and non-hematopoietic tumors, and to confirm recently-identified microenvironment-based cancer stratifications associated with overall-survival in lung adenocarcinoma, colorectal, and breast cancers.

Accordingly a first object of the present invention relates to a method for quantifying the population of cells of monocytic origin in a tissue sample obtained from a subject comprising determining the expression level of at least one gene selected from the group consisting of CSF1R, ADAP2, RASSF4, FPR3, TFEC, PLA2G7 and KYNU wherein the determined expression level indicates the quantity of the population of cells of monocytic origin in the tissue sample.

As used herein, the term "cells of monocytic origin" has its general meaning in the art. In particular, cells of monocytic origin origin include monocytes, macrophages and dendrtic cells. Monocytes are immature myeloid cells which are mostly found in the blood. Upon stimulation by danger signals and/or cytokines, they differentiate into macrophages or myeloid dendritic cells. Macrophages are effector cells arising from monocytes upon entrance in tissues from the peripheral blood. Their major function is phagocytosis, which is the internalization of cells, bacteria or other small bodies, which are then destroyed by acidification, action of proteases and reactive oxygen species. Macrophages are capable of low levels of antigen presentation to CD4+ T lymphocytes. Dendritic cells are specialized antigen-presenting cells (APC). Their names come from the long dendrites that extend from their bodies, which they use to sense surrounding molecular patterns. Dendritic cells are capable of phagocytosis, which enable them to present antigens originating from the extracellular milieu to CD4+ T lymphocytes, as well as to CD8+ T cells through a process known as antigen cross-presentation. Apart from phagocytosis, dendritic cells are also capable of macropynocytosis, which is the internalization of small volumes of extracellular fluids, whose antigenic content is subsequently processed and presented. Finally, dendritic cells can express co-stimulatory or co-inhibitory ligands, as well as a wide spectrum of cytokines, which depends on their state of maturation and the stimuli they received during maturation. These secondary signals will orientate the functionality of the dendritic cells-stimulated immune cells.

As used herein, the term “subject” denotes a mammal such as a rodent, a feline, a canine and a primate. Preferably, a subject according to the invention is a human.

As used herein, the term "tissue", when used in reference to a part of a body or of an organ, generally refers to an aggregation or collection of morphologically similar cells and associated accessory and support cells and intercellular matter, including extracellular matrix material, vascular supply, and fluids, acting together to perform specific functions in the body. There are generally four basic types of tissue in animals and humans including muscle, nerve, epithelial, and connective tissues.

In some embodiments, when the subject suffers from a cancer, the tissue sample is a tumor tissue sample. As used herein, the term “tumor tissue sample” means any tissue tumor sample derived from the patient. Said tissue sample is obtained for the purpose of the *in vitro* evaluation. In some embodiments, the tumor sample may result from the tumor resected from the patient. In some embodiments, the tumor sample may result from a biopsy performed in the primary tumour of the patient or performed in metastatic sample distant from the primary tumor of the patient. In some embodiments, the tumor tissue sample encompasses a global primary tumor (as a whole), a tissue sample from the center of the tumor, a tumor tissue sample collected prior surgery (for follow-up of patients after treatment for example), and a distant metastasis.

The tumor tissue sample can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (e.g., fixation, storage, freezing, etc.). The sample can be fresh, frozen, fixed (e.g., formalin fixed), or embedded (e.g., paraffin embedded.

In some embodiments, the subject suffers from a solid cancer selected from the group consisting of bile duct cancer (e.g. periphilar cancer, distal bile duct cancer, intrahepatic bile duct cancer), bladder cancer, bone cancer (e.g. osteoblastoma, osteochrondroma, hemangioma, chondromyxoid fibroma, osteosarcoma, chondrosarcoma, fibrosarcoma, malignant fibrous histiocytoma, giant cell tumor of the bone, chordoma, lymphoma, multiple myeloma), brain and central nervous system cancer (e.g. meningioma, astocytoma, oligodendrogliomas, ependymoma, gliomas, medulloblastoma, ganglioglioma, Schwannoma, germinoma, craniopharyngioma), breast cancer (e.g. ductal carcinoma in situ, infiltrating ductal carcinoma, infiltrating, lobular carcinoma, lobular carcinoma in, situ, gynecomastia), Castleman disease (e.g. giant lymph node hyperplasia, angiofollicular lymph node hyperplasia), cervical cancer, colorectal cancer, endometrial cancer (e.g. endometrial adenocarcinoma, adenocanthoma, papillary serous adnocarcinroma, clear cell), esophagus cancer, gallbladder cancer (mucinous adenocarcinoma, small cell carcinoma), gastrointestinal carcinoid tumors (e.g. choriocarcinoma, chorioadenoma destruens), Hodgkin's disease, non-Hodgkin's lymphoma, Kaposi's sarcoma, kidney cancer (e.g. renal cell cancer), laryngeal and hypopharyngeal cancer, liver cancer (e.g. hemangioma, hepatic adenoma, focal nodular hyperplasia, hepatocellular carcinoma), lung cancer (e.g. small cell lung cancer, non-small cell lung cancer), mesothelioma, plasmacytoma, nasal cavity and paranasal sinus cancer (e.g. esthesioneuroblastoma, midline granuloma), nasopharyngeal cancer, neuroblastoma, oral cavity and oropharyngeal cancer, ovarian cancer, pancreatic cancer, penile cancer, pituitary cancer, prostate cancer, retinoblastoma, rhabdomyosarcoma (e.g. embryonal rhabdomyosarcoma, alveolar rhabdomyosarcoma, pleomorphic rhabdomyosarcoma), salivary gland cancer, skin cancer (e.g. melanoma, nonmelanoma skin cancer), stomach cancer, testicular cancer (e.g. seminoma, nonseminoma germ cell cancer), thymus cancer, thyroid cancer (e.g. follicular carcinoma, anaplastic carcinoma, poorly differentiated carcinoma, medullary thyroid carcinoma, thyroid lymphoma), vaginal cancer, vulvar cancer, and uterine cancer (e.g. uterine leiomyosarcoma).

In the present specification, the name of each of the genes of interest refers to the internationally recognised name of the corresponding gene, as found in internationally recognised gene sequences and protein sequences databases, in particular in the database from the HUGO Gene Nomenclature Committee, that is available notably at the following Internet address : http://www.gene.ucl.ac.uk/nomenclature/index.html. In the present specification, the name of each of the various biological markers of interest may also refer to the internationally recognised name of the corresponding gene, as found in the internationally recognised gene sequences and protein sequences databases ENTREZ ID, Genbank, TrEMBL or ENSEMBL. Through these internationally recognised sequence databases, the nucleic acid sequences corresponding to each of the gene of interest described herein may be retrieved by the one skilled in the art. For avoidance of doubt, each gene of the present invention is characterized with the probe set name available at the following Internet address http://genecards.weizmann.ac.il/geneannot/index.shtml and their access number available on http://www.ncbi.nlm.nih.gov/gene/ : (see Table A).

Probeset	**Signature**	**Symbol**	**ENTREZ ID**
215784_at	Myeloid dendritic cells	CD1E	913
206682_at	Myeloid dendritic cells	CLEC10A	10462
213415_at	Myeloid dendritic cells	CLIC2	1193
210325_at	Myeloid dendritic cells	CD1A	909
229566_at	Myeloid dendritic cells	WFDC21P	645638
206749_at	Myeloid dendritic cells	CD1B	910
217418_x_at	B cells	MS4A1	931
206398_s_at	B cells	CD19	930
1555779_a_at	B cells	CD79A	973
221239_s_at	B cells	FCRL2	79368
205544_s_at	B cells	CR2	1380
221969_at	B cells	PAX5	5079
204581_at	B cells	CD22	933
1558662_s_at	B cells	BANK1	55024
216207_x_at	B cells	IGKC	3514
1555691_a_at	Cytotoxic lymphocytes	KLRC4-KLRK1 /// KLRK1	100528032 // 22914
205758_at	Cytotoxic lymphocytes	CD8A	925
210606_x_at	Cytotoxic lymphocytes	KLRD1	3824
37145_at	Cytotoxic lymphocytes	GNLY	10578
231776_at	Cytotoxic lymphocytes	EOMES	8320
207723_s_at	Cytotoxic lymphocytes	KLRC3	3823
210690_at	Cytotoxic lymphocytes	KLRC4	8302
223836_at	Cytotoxic lymphocytes	FGFBP2	83888
206785_s_at	Cytotoxic lymphocytes	KLRC1 /// KLRC2	3821 // 3822

211813_x_at	Fibroblasts	DCN	1634
209156_s_at	Fibroblasts	COL6A2	1292
212091_s_at	Fibroblasts	COL6A1	1291
201852_x_at	Fibroblasts	COL3A1	1281
202311_s_at	Fibroblasts	COL1A1	1277
213661_at	Fibroblasts	PAMR1	25891
205547_s_at	Fibroblasts	TAGLN	6876
218468_s_at	Fibroblasts	GREM1	26585
207008_at	Neutrophils	CXCR2	3579
220528_at	Neutrophils	VNN3	55350
206515_at	Neutrophils	CYP4F3	4051
206643_at	Neutrophils	HAL	3034
216782_at	Neutrophils	GENE 1 (*) (Hs.677385)	-
204007_at	Neutrophils	FCGR3B	2215
210119_at	Neutrophils	KCNJ15	3772
207094_at	Neutrophils	CXCR1	3577
220187_at	Neutrophils	STEAP4	79689
206222_at	Neutrophils	TNFRSF10C	8794
203104_at	Cells of monocytic origin	CSF1R	1436
219358_s_at	Cells of monocytic origin	ADAP2	55803
226436_at	Cells of monocytic origin	RASSF4	83937
230422_at	Cells of monocytic origin	FPR3	2359
232383_at	Cells of monocytic origin	TFEC	22797
206214_at	Cells of monocytic origin	PLA2G7	7941
204385_at	Cells of monocytic origin	KYNU	8942
210890_x_at	NK cells	KIR2DL1	3802
208179_x_at	NK cells	KIR2DL3	3804
217088_s_at	NK cells	NCR1	9437
211687_x_at	NK cells	KIR3DL1	3811
211389_x_at	NK cells	KIR3DS1	3813
207313_x_at	NK cells	KIR3DL2	3812
1553177_at	NK cells	SH2D1B	117157
207840_at	NK cells	CD160	11126
237542_at	NK cells	GENE 2 (*) (Hs.607854)	-
208426_x_at	NK cells	KIR2DL4	3805
217147_s_at	T cells	TRAT1	50852
213539_at	T cells	CD3D	915
1558972_s_at	T cells	THEMIS	387357
210439_at	T cells	ICOS	29851
220485_s_at	T cells	SIRPG	55423
206804_at	T cells	CD3G	917
236341_at	T cells	CTLA4	1493
213958_at	T cells	CD6	923
230489_at	T cells	CD5	921
206545_at	T cells	CD28	940

204677_at	Endothelial cells	CDH5	1003
222885_at	Endothelial cells	EMCN	51705
231947_at	Endothelial cells	MYCT1	80177
219134_at	Endothelial cells	ELTD1	64123
226028_at	Endothelial cells	ROBO4	54538
226244_at	Endothelial cells	CLEC14A	161198
202112_at	Endothelial cells	VWF	7450
225369_at	Endothelial cells	ESAM	90952
219091_s_at	Endothelial cells	MMRN2	79812
203934_at	Endothelial cells	KDR	3791

Table A: correspondence between the gene mane and the probe set name. (*) indicates that the probeset does not correspond to a known gene that is referenced in the present disclosure as GENE 1 and GENE 2

In some embodiments, the expression level of 2, 3, 4, 5, 6 or 7 genes is determined. Typically, the combination of genes is selected from the Table 1.

In some embodiments, the method of the present invention further comprises quantifying at least one further population of cells in the tissue sample.

In some embodiments, the at least one population of cells is selected from the group consisting of B cells, T cells, NK cells, cytotoxic lymphocytes, neutrophils, myeloid dendritic cells, fibroblasts and endothelial cells (includes lymphatics and blood vessels).

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of B cells selected from the group consisting of MS4A1, CD19, CD79A, FCRL2, CR2, PAX5, CD22, BANK1 and IGKC.

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of T cells selected from the group consisting of TRAT1, CD3D, THEMIS, ICOS, SIRPG, CD3G, CTLA4, CD6, CD5 and CD28.

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of NK cells selected from the group consisting of KIR2DL1, KIR2DL3, NCR1, KIR3DL1, KIR3DS1, KIR3DL2, SH2D1B, CD160, GENE 2 and KIR2DL4.

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of cytotoxic lymphocytes selected from the group consisting of KLRC4-KLRK1 /// KLRK1, CD8A, KLRD1, GNLY, EOMES, KLRC3, KLRC4, FGFBP2 and KLRC1 /// KLRC2.

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of neutrophils selected from the group consisting of CXCR2, VNN3 CYP4F3, HAL, GENE 1, FCGR3B, KCNJ15, CXCR1, STEAP4 and TNFRSF10C.

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of myeloid dendritic cells selected from the group consisting of CD1E, CLEC10A, CLIC2, CD1A, WFDC21P and CD1B.

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of fibroblasts selected from the group consisting of DCN, COL6A2, COL6A1, COL3A1, COL1A1, PAMR1, TAGLN and GREM1.

In some embodiments, the method of the present invention further comprises determining the expression level of at least one gene representative of endothelial cells selected from the group consisting of CDH5, EMCN, MYCT1, ELTD1, ROBO4, CLEC14A, VWF, ESAM, MMRN2 and KDR.

Typically, the expression level of a gene is determined by determining the quantity of mRNA. Methods for determining the quantity of mRNA are well known in the art. For example the nucleic acid contained in the samples (e.g., cell or tissue prepared from the subject) is first extracted according to standard methods, for example using lytic enzymes or chemical solutions or extracted by nucleic-acid-binding resins following the manufacturer's instructions. The extracted mRNA is then detected by hybridization (e. g., Northern blot analysis, in situ hybridization) and/or amplification (e.g., RT-PCR). Other methods of Amplification include ligase chain reaction (LCR), transcription-mediated amplification (TMA), strand displacement amplification (SDA) and nucleic acid sequence based amplification (NASBA).

Nucleic acids having at least 10 nucleotides and exhibiting sequence complementarity or homology to the mRNA of interest herein find utility as hybridization probes or amplification primers. It is understood that such nucleic acids need not be identical, but are typically at least about 80% identical to the homologous region of comparable size, more preferably 85% identical and even more preferably 90-95% identical. In some embodiments, it will be advantageous to use nucleic acids in combination with appropriate means, such as a detectable label, for detecting hybridization.

Typically, the nucleic acid probes include one or more labels, for example to permit detection of a target nucleic acid molecule using the disclosed probes. In various applications, such as in situ hybridization procedures, a nucleic acid probe includes a label (e.g., a detectable label). A "detectable label" is a molecule or material that can be used to produce a detectable signal that indicates the presence or concentration of the probe (particularly the bound or hybridized probe) in a sample. Thus, a labeled nucleic acid molecule provides an indicator of the presence or concentration of a target nucleic acid sequence (e.g., genomic target nucleic acid sequence) (to which the labeled uniquely specific nucleic acid molecule is bound or hybridized) in a sample. A label associated with one or more nucleic acid molecules (such as a probe generated by the disclosed methods) can be detected either directly or indirectly. A label can be detected by any known or yet to be discovered mechanism including absorption, emission and/ or scattering of a photon (including radio frequency, microwave frequency, infrared frequency, visible frequency and ultra-violet frequency photons). Detectable labels include colored, fluorescent, phosphorescent and luminescent molecules and materials, catalysts (such as enzymes) that convert one substance into another substance to provide a detectable difference (such as by converting a colorless substance into a colored substance or vice versa, or by producing a precipitate or increasing sample turbidity), haptens that can be detected by antibody binding interactions, and paramagnetic and magnetic molecules or materials.

Particular examples of detectable labels include fluorescent molecules (or fluorochromes). Numerous fluorochromes are known to those of skill in the art, and can be selected, for example from Life Technologies (formerly Invitrogen), e.g., see, The Handbook—

A Guide to Fluorescent Probes and Labeling Technologies). Examples of particular fluorophores that can be attached (for example, chemically conjugated) to a nucleic acid molecule (such as a uniquely specific binding region) are provided in U.S. Pat. No. 5,866, 366 to Nazarenko et al., such as 4-acetamido-4'-isothiocyanatostilbene-2,2' disulfonic acid, acridine and derivatives such as acridine and acridine isothiocyanate, 5-(2'-aminoethyl) aminonaphthalene-1-sulfonic acid (EDANS), 4-amino -N- [3 vinylsulfonyl)phenyl]naphthalimide-3,5 disulfonate (Lucifer Yellow VS), N-(4-anilino-1-naphthyl)maleimide, antl1ranilamide, Brilliant Yellow, coumarin and derivatives such as coumarin, 7-amino-4-methylcoumarin (AMC, Coumarin 120), 7-amino-4-trifluoromethylcouluarin (Coumarin 151); cyanosine; 4',6-diarninidino-2-phenylindole (DAPI); 5',5"dibromopyrogallol-sulfonephthalein (Bromopyrogallol Red); 7 -diethylamino -3 - (4'-isothiocyanatophenyl)-4-methylcoumarin; diethylenetriamine pentaacetate; 4,4'-diisothiocyanatodihydro-stilbene-2,2'-disulfonic acid; 4,4'-diisothiocyanatostilbene-2,2'-disulforlic acid; 5-[dimethylamino] naphthalene-1-sulfonyl chloride (DNS, dansyl chloride); 4-(4'-dimethylaminophenylazo)benzoic acid (DABCYL); 4-dimethylaminophenylazophenyl-4'-isothiocyanate (DABITC); eosin and derivatives such as eosin and eosin isothiocyanate; erythrosin and derivatives such as erythrosin B and erythrosin isothiocyanate; ethidium; fluorescein and derivatives such as 5-carboxyfluorescein (FAM), 5-(4,6dicl1lorotriazin-2-yDarninofluorescein (DTAF), 2'7'dimethoxy-4'5'-dichloro-6-carboxyfluorescein (JOE), fluorescein, fluorescein isothiocyanate (FITC), and QFITC Q(RITC); 2',7'-difluorofluorescein (OREGON GREEN®); fluorescamine; IR144; IR1446; Malachite Green isothiocyanate; 4-methylumbelliferone; ortho cresolphthalein; nitrotyrosine; pararosaniline; Phenol Red; B-phycoerythrin; o-phthaldialdehyde; pyrene and derivatives such as pyrene, pyrene butyrate and succinimidyl 1-pyrene butyrate; Reactive Red 4 (Cibacron Brilliant Red 3B-A); rhodamine and derivatives such as 6-carboxy-X-rhodamine (ROX), 6-carboxyrhodamine (R6G), lissamine rhodamine B sulfonyl chloride, rhodamine (Rhod), rhodamine B, rhodamine 123, rhodamine X isothiocyanate, rhodamine green, sulforhodamine B, sulforhodamine 101 and sulfonyl chloride derivative of sulforhodamine 101 (Texas Red); N,N,N',N'-tetramethyl-6-carboxyrhodamine (TAMRA); tetramethyl rhodamine; tetramethyl rhodamine isothiocyanate (TRITC); riboflavin; rosolic acid and terbium chelate derivatives. Other suitable fluorophores include thiol-reactive europium chelates which emit at approximately 617 mn (Heyduk and Heyduk, Analyt. Biochem. 248:216-27, 1997; J. Biol. Chem. 274:3315-22, 1999), as well as GFP, LissamineTM, diethylaminocoumarin, fluorescein chlorotriazinyl, naphthofluorescein, 4,7-dichlororhodamine and xanthene (as described in U.S. Pat. No. 5,800,996 to Lee et al.) and derivatives thereof.

Other fluorophores known to those skilled in the art can also be used, for example those available from Life Technologies (Invitrogen; Molecular Probes (Eugene, Oreg.)) and including the ALEXA FLUOR® series of dyes (for example, as described in U.S. Pat. Nos. 5,696,157, 6, 130, 101 and 6,716,979), the BODIPY series of dyes (dipyrrometheneboron difluoride dyes, for example as described in U.S. Pat. Nos. 4,774,339, 5,187,288, 5,248,782, 5,274,113, 5,338,854, 5,451,663 and 5,433,896), Cascade Blue (an amine reactive derivative of the sulfonated pyrene described in U.S. Pat. No. 5,132,432) and Marina Blue (U.S. Pat. No. 5,830,912).

In addition to the fluorochromes described above, a fluorescent label can be a fluorescent nanoparticle, such as a semiconductor nanocrystal, e.g., a QUANTUM DOTTM (obtained, for example, from Life Technologies (QuantumDot Corp, Invitrogen Nanocrystal Technologies, Eugene, Oreg.); see also, U.S. Pat. Nos. 6,815,064; 6,682,596; and 6,649, 138). Semiconductor nanocrystals are microscopic particles having size-dependent optical and/or electrical properties. When semiconductor nanocrystals are illuminated with a primary energy source, a secondary emission of energy occurs of a frequency that corresponds to the handgap of the semiconductor material used in the semiconductor nanocrystal. This emission can he detected as colored light of a specific wavelength or fluorescence. Semiconductor nanocrystals with different spectral characteristics are described in e.g., U.S. Pat. No. 6,602,671. Semiconductor nanocrystals that can he coupled to a variety of biological molecules (including dNTPs and/or nucleic acids) or substrates by techniques described in, for example, Bruchez et al., Science 281 :20132016, 1998; Chan et al., Science 281:2016-2018, 1998; and U.S. Pat. No. 6,274,323. Formation of semiconductor nanocrystals of various compositions are disclosed in, e.g., U.S. Pat. Nos. 6,927, 069; 6,914,256; 6,855,202; 6,709,929; 6,689,338; 6,500,622; 6,306,736; 6,225,198; 6,207,392; 6,114,038; 6,048,616; 5,990,479; 5,690,807; 5,571,018; 5,505,928; 5,262,357 and in U.S. Patent Puhlication No. 2003/0165951 as well as PCT Puhlication No. 99/26299 (puhlished May 27, 1999). Separate populations of semiconductor nanocrystals can he produced that are identifiable based on their different spectral characteristics. For example, semiconductor nanocrystals can he produced that emit light of different colors hased on their composition, size or size and composition. For example, quantum dots that emit light at different wavelengths based on size (565 mn, 655 mn, 705 mn, or 800 mn emission wavelengths), which are suitable as fluorescent labels in the probes disclosed herein are available from Life Technologies (Carlshad, Calif.).

Additional labels include, for example, radioisotopes (such as ^{3}H), metal chelates such as DOTA and DPTA chelates of radioactive or paramagnetic metal ions like Gd3+, and liposomes.

Detectable labels that can he used with nucleic acid molecules also include enzymes, for example horseradish peroxidase, alkaline phosphatase, acid phosphatase, glucose oxidase, beta-galactosidase, beta-glucuronidase, or beta-lactamase.

Alternatively, an enzyme can he used in a metallographic detection scheme. For example, silver in situ hyhridization (SISH) procedures involve metallographic detection schemes for identification and localization of a hybridized genomic target nucleic acid sequence. Metallographic detection methods include using an enzyme, such as alkaline phosphatase, in combination with a water-soluble metal ion and a redox-inactive substrate of the enzyme. The substrate is converted to a redox-active agent by the enzyme, and the redoxactive agent reduces the metal ion, causing it to form a detectable precipitate. (See, for example, U.S. Patent Application Puhlication No. 2005/0100976, PCT Publication No. 2005/ 003777 and U.S. Patent Application Publication No. 2004/ 0265922). Metallographic detection methods also include using an oxido-reductase enzyme (such as horseradish peroxidase) along with a water soluble metal ion, an oxidizing agent and a reducing agent, again to form a detectable precipitate. (See, for example, U.S. Pat. No. 6,670,113).

Probes made using the disclosed methods can be used for nucleic acid detection, such as ISH procedures (for example, fluorescence in situ hybridization (FISH), chromogenic in situ hybridization (CISH) and silver in situ hybridization (SISH)) or comparative genomic hybridization (CGH).

In situ hybridization (ISH) involves contacting a sample containing target nucleic acid sequence (e.g., genomic target nucleic acid sequence) in the context of a metaphase or interphase chromosome preparation (such as a cell or tissue sample mounted on a slide) with a labeled probe specifically hybridizable or specific for the target nucleic acid sequence (e.g., genomic target nucleic acid sequence). The slides are optionally pretreated, e.g., to remove paraffin or other materials that can interfere with uniform hybridization. The sample and the probe are both treated, for example by heating to denature the double stranded nucleic acids. The probe (formulated in a suitable hybridization buffer) and the sample are combined, under conditions and for sufficient time to permit hybridization to occur (typically to reach equilibrium). The chromosome preparation is washed to remove excess probe, and detection of specific labeling of the chromosome target is performed using standard techniques.

For example, a biotinylated probe can be detected using fluorescein-labeled avidin or avidin-alkaline phosphatase. For fluorochrome detection, the fluorochrome can be detected directly, or the samples can be incubated, for example, with fluorescein isothiocyanate (FITC)-conjugated avidin. Amplification of the FITC signal can be effected, if necessary, by incubation with biotin-conjugated goat antiavidin antibodies, washing and a second incubation with FITC-conjugated avidin. For detection by enzyme activity, samples can be incubated, for example, with streptavidin, washed, incubated with biotin-conjugated alkaline phosphatase, washed again and pre-equilibrated (e.g., in alkaline phosphatase (AP) buffer). For a general description of in situ hybridization procedures, see, e.g., U.S. Pat. No. 4,888,278.

Numerous procedures for FISH, CISH, and SISH are known in the art. For example, procedures for performing FISH are described in U.S. Pat. Nos. 5,447,841; 5,472,842; and 5,427,932; and for example, in Pir1kel et al., Proc. Natl. Acad. Sci. 83:2934-2938, 1986; Pinkel et al., Proc. Natl. Acad. Sci. 85:9138-9142, 1988; and Lichter et al., Proc. Natl. Acad. Sci. 85:9664-9668, 1988. CISH is described in, e.g., Tanner et al., Am. .1. Pathol. 157:1467-1472, 2000 and U.S. Pat. No. 6,942,970. Additional detection methods are provided in U.S. Pat. No. 6,280,929.

Numerous reagents and detection schemes can be employed in conjunction with FISH, CISH, and SISH procedures to improve sensitivity, resolution, or other desirable properties. As discussed above probes labeled with fluorophores (including fluorescent dyes and QUANTUM DOTS®) can be directly optically detected when performing FISH. Alternatively, the probe can be labeled with a nonfluorescent molecule, such as a hapten (such as the following non-limiting examples: biotin, digoxigenin, DNP, and various oxazoles, pyrrazoles, thiazoles, nitroaryls, benzofurazans, triterpenes, ureas, thioureas, rotenones, coumarin, courmarin-based compounds, Podophyllotoxin, Podophyllotoxin-based compounds, and combinations thereof), ligand or other indirectly detectable moiety. Probes labeled with such non-fluorescent molecules (and the target nucleic acid sequences to which they bind) can then be detected by contacting the sample (e.g., the cell or tissue sample to which the probe is bound) with a labeled detection reagent, such as an antibody (or receptor, or other specific binding partner) specific for the chosen hapten or ligand. The detection reagent can be labeled with a fluorophore (e.g., QUANTUM DOT®) or with another indirectly detectable moiety, or can be contacted with one or more additional specific binding agents (e.g., secondary or specific antibodies), which can be labeled with a fluorophore.

In other examples, the probe, or specific binding agent (such as an antibody, e.g., a primary antibody, receptor or other binding agent) is labeled with an enzyme that is capable of converting a fluorogenic or chromogenic composition into a detectable fluorescent, colored or otherwise detectable signal (e.g., as in deposition of detectable metal particles in SISH). As indicated above, the enzyme can be attached directly or indirectly via a linker to the relevant probe or detection reagent. Examples of suitable reagents (e.g., binding reagents) and chemistries (e.g., linker and attachment chemistries) are described in U.S. Patent Application Publication Nos. 2006/0246524; 2006/0246523, and 2007/ 01 17153.

It will he appreciated by those of skill in the art that by appropriately selecting labelled probe-specific binding agent pairs, multiplex detection schemes can he produced to facilitate detection of multiple target nucleic acid sequences (e.g., genomic target nucleic acid sequences) in a single assay (e.g., on a single cell or tissue sample or on more than one cell or tissue sample). For example, a first probe that corresponds to a first target sequence can he labelled with a first hapten, such as biotin, while a second probe that corresponds to a second target sequence can be labelled with a second hapten, such as DNP. Following exposure of the sample to the probes, the bound probes can he detected by contacting the sample with a first specific binding agent (in this case avidin labelled with a first fluorophore, for example, a first spectrally distinct QUANTUM DOT®, e.g., that emits at 585 mn) and a second specific binding agent (in this case an anti-DNP antibody, or antibody fragment, labelled with a second fluorophore (for example, a second spectrally distinct QUANTUM DOT®, e.g., that emits at 705 mn). Additional probes/binding agent pairs can he added to the multiplex detection scheme using other spectrally distinct fluorophores. Numerous variations of direct, and indirect (one step, two step or more) can he envisioned, all of which are suitable in the context of the disclosed probes and assays.

Probes typically comprise single-stranded nucleic acids of between 10 to 1000 nucleotides in length, for instance of between 10 and 800, more preferably of between 15 and 700, typically of between 20 and 500. Primers typically are shorter single-stranded nucleic acids, of between 10 to 25 nucleotides in length, designed to perfectly or almost perfectly match a nucleic acid of interest, to be amplified. The probes and primers are "specific" to the nucleic acids they hybridize to, i.e. they preferably hybridize under high stringency hybridization conditions (corresponding to the highest melting temperature Tm, e.g., 50 % formamide, 5x or 6x SCC. SCC is a 0.15 M NaCl, 0.015 M Na-citrate).

The nucleic acid primers or probes used in the above amplification and detection method may be assembled as a kit. Such a kit includes consensus primers and molecular probes. A preferred kit also includes the components necessary to determine if amplification has occurred. The kit may also include, for example, PCR buffers and enzymes; positive control sequences, reaction control primers; and instructions for amplifying and detecting the specific sequences.

In some embodiments, the methods of the invention comprise the steps of providing total RNAs extracted from cumulus cells and subjecting the RNAs to amplification and hybridization to specific probes, more particularly by means of a quantitative or semi-quantitative RT-PCR.

In some embodiments, the level is determined by DNA chip analysis. Such DNA chip or nucleic acid microarray consists of different nucleic acid probes that are chemically attached to a substrate, which can be a microchip, a glass slide or a microsphere-sized bead. A microchip may be constituted of polymers, plastics, resins, polysaccharides, silica or silica-based materials, carbon, metals, inorganic glasses, or nitrocellulose. Probes comprise nucleic acids such as cDNAs or oligonucleotides that may be about 10 to about 60 base pairs. To determine the level, a sample from a test subject, optionally first subjected to a reverse transcription, is labelled and contacted with the microarray in hybridization conditions, leading to the formation of complexes between target nucleic acids that are complementary to probe sequences attached to the microarray surface. The labelled hybridized complexes are then detected and can be quantified or semi-quantified. Labelling may be achieved by various methods, e.g. by using radioactive or fluorescent labelling. Many variants of the microarray hybridization technology are available to the man skilled in the art (see e.g. the review by Hoheisel, Nature Reviews, Genetics, 2006, 7:200-210).

In some embodiments, the nCounter® Analysis system is used to detect intrinsic gene expression. The basis of the nCounter® Analysis system is the unique code assigned to each nucleic acid target to be assayed (International Patent Application Publication No. WO 08/124847, U.S. Patent No. 8,415,102 and Geiss et al. Nature Biotechnology. 2008. 26(3): 317-325; the contents of which are each incorporated herein by reference in their entireties). The code is composed of an ordered series of colored fluorescent spots which create a unique barcode for each target to be assayed. A pair of probes is designed for each DNA or RNA target, a biotinylated capture probe and a reporter probe carrying the fluorescent barcode. This system is also referred to, herein, as the nanoreporter code system. Specific reporter and capture probes are synthesized for each target. The reporter probe can comprise at a least a first label attachment region to which are attached one or more label monomers that emit light constituting a first signal; at least a second label attachment region, which is non-over-lapping with the first label attachment region, to which are attached one or more label monomers that emit light constituting a second signal; and a first target- specific sequence. Preferably, each sequence specific reporter probe comprises a target specific sequence capable of hybridizing to no more than one gene and optionally comprises at least three, or at least four label attachment regions, said attachment regions comprising one or more label monomers that emit light, constituting at least a third signal, or at least a fourth signal, respectively. The capture probe can comprise a second target-specific sequence; and a first affinity tag. In some embodiments, the capture probe can also comprise one or more label attachment regions. Preferably, the first target-specific sequence of the reporter probe and the second target- specific sequence of the capture probe hybridize to different regions of the same gene to be detected. Reporter and capture probes are all pooled into a single hybridization mixture, the "probe library". The relative abundance of each target is measured in a single multiplexed hybridization reaction. The method comprises contacting the tumor tissue sample with a probe library, such that the presence of the target in the sample creates a probe pair - target complex. The complex is then purified. More specifically, the sample is combined with the probe library, and hybridization occurs in solution. After hybridization, the tripartite hybridized complexes (probe pairs and target) are purified in a two-step procedure using magnetic beads linked to oligonucleotides complementary to universal sequences present on the capture and reporter probes. This dual purification process allows the hybridization reaction to be driven to completion with a large excess of target-specific probes, as they are ultimately removed, and, thus, do not interfere with binding and imaging of the sample. All post hybridization steps are handled robotically on a custom liquid-handling robot (Prep Station, NanoString Technologies). Purified reactions are typically deposited by the Prep Station into individual flow cells of a sample cartridge, bound to a streptavidin-coated surface via the capture probe,electrophoresed to elongate the reporter probes, and immobilized. After processing, the sample cartridge is transferred to a fully automated imaging and data collection device (Digital Analyzer, NanoString Technologies). The level of a target is measured by imaging each sample and counting the number of times the code for that target is detected. For each sample, typically 600 fields-of-view (FOV) are imaged (1376 X 1024 pixels) representing approximately 10 mm2 of the binding surface. Typical imaging density is 100- 1200 counted reporters per field of view depending on the degree of multiplexing, the amount of sample input, and overall target abundance. Data is output in simple spreadsheet format listing the number of counts per target, per sample. This system can be used along with nanoreporters. Additional disclosure regarding nanoreporters can be found in International Publication No. WO 07/076129 and WO07/076132, and US Patent Publication No. 2010/0015607 and 2010/0261026, the contents of which are incorporated herein in their entireties. Further, the term nucleic acid probes and nanoreporters can include the rationally designed (e.g. synthetic sequences) described in International Publication No. WO 2010/019826 and US Patent Publication No.2010/0047924, incorporated herein by reference in its entirety.

Expression level of a gene may be expressed as absolute level or normalized level. Typically, levels are normalized by correcting the absolute level of a gene by comparing its expression to the expression of a gene that is not a relevant for determining the cancer stage of the subject, e.g., a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene ACTB, ribosomal 18S gene, GUSB, PGK1 and TFRC. This normalization allows the comparison of the level in one sample, e.g., a subject sample, to another sample, or between samples from different sources.

In some embodiments, the method of the present invention comprises comparing the determined expression level with a panel of predetermined reference values that correlate with the quantity of the population of cells of monocytic origin determined in a reference tissue sample.

According to the present invention, the predetermined references values are determined from reference samples wherein the expression level of the gene(s) was (were) determined and adjusted with the exact quantification of the population of cells. Typically, a set of reference samples characterized using both gene expression and another measurement technique such as immunohistochemistry, flow cytometry, or RNA can be used for defining the panel of the predetermined reference value. Mixtures of known cellular proportions also can be suitable for determining the predetermined reference values.

The method of the present invention is particularly suitable for determining the proportion of the population of cells of monocytic origin in the tissue sample. Typically, when at least one further population of cells is quantified as above described the proportion is determined by any well-known method in the art that typically involves use of algorithm based e.g. on regression models.

The method of the present invention is thus suitable for characterizing the immune, endothelial and fibroblastic components of the microenvironment of a tumor to decipher interactions between these cell types that can impact the progression of the tumor and eventually the subject's survival time. The method of the present invention is thus particularly suitable for determining the survival time of a subject suffering from a cancer. The method is thus particularly suitable for predicting the duration of the overall survival (OS), progression-free survival (PFS) and/or the disease-free survival (DFS) of the cancer subject. Those of skill in the art will recognize that OS survival time is generally based on and expressed as the percentage of people who survive a certain type of cancer for a specific amount of time. Cancer statistics often use an overall five-year survival rate. In general, OS rates do not specify whether cancer survivors are still undergoing treatment at five years or if they've become cancer-free (achieved remission). DSF gives more specific information and is the number of people with a particular cancer who achieve remission. Also, progression-free survival (PFS) rates (the number of people who still have cancer, but their disease does not progress) includes people who may have had some success with treatment, but the cancer has not disappeared completely. As used herein, the expression "short survival time" indicates that the subject will have a survival time that will be lower than the median (or mean) observed in the general population of subjects suffering from said cancer. When the subject will have a short survival time, it is meant that the subject will have a "poor prognosis". Inversely, the expression "long survival time" indicates that the subject will have a survival time that will be higher than the median (or mean) observed in the general population of subjects suffering from said cancer. When the subject will have a long survival time, it is meant that the subject will have a "good prognosis".

The method of the present invention is also suitable for determining whether a subject suffering from a cancer is eligible or not to anti-cancer treatment. Typically, the treatment includes chemotherapy, radiotherapy, and immunotherapy. In particular, subject having a short survival time would advantageously receive an anti-cancer treatment.

As used herein, the term "treatment" or "treat" refer to both prophylactic or preventive treatment as well as curative or disease modifying treatment, including treatment of subjects at risk of contracting the disease or suspected to have contracted the disease as well as subjects who are ill or have been diagnosed as suffering from a disease or medical condition, and includes suppression of clinical relapse. The treatment may be administered to a subject having a medical disorder or who ultimately may acquire the disorder, in order to prevent, cure, delay the onset of, reduce the severity of, or ameliorate one or more symptoms of a disorder or recurring disorder, or in order to prolong the survival of a subject beyond that expected in the absence of such treatment. By "therapeutic regimen" is meant the pattern of treatment of an illness, e.g., the pattern of dosing used during therapy. A therapeutic regimen may include an induction regimen and a maintenance regimen. The phrase "induction regimen" or "induction period" refers to a therapeutic regimen (or the portion of a therapeutic regimen) that is used for the initial treatment of a disease. The general goal of an induction regimen is to provide a high level of drug to a subject during the initial period of a treatment regimen. An induction regimen may employ (in part or in whole) a "loading regimen", which may include administering a greater dose of the drug than a physician would employ during a maintenance regimen, administering a drug more frequently than a physician would administer the drug during a maintenance regimen, or both. The phrase "maintenance regimen" or "maintenance period" refers to a therapeutic regimen (or the portion of a therapeutic regimen) that is used for the maintenance of a subject during treatment of an illness, e.g., to keep the subject in remission for long periods of time (months or years). A maintenance regimen may employ continuous therapy (e.g., administering a drug at a regular intervals, e.g., weekly, monthly, yearly, etc.) or intermittent therapy (e.g., interrupted treatment, intermittent treatment, treatment at relapse, or treatment upon achievement of a particular predetermined criteria [e.g., disease manifestation, etc.]).

In some embodiments, the treatment consists of administering to the subject a chemotherapeutic agent. The term "chemotherapeutic agent" refers to chemical compounds that are effective in inhibiting tumor growth. Examples of chemotherapeutic agents include alkylating agents such as thiotepa and cyclosphosphamide; alkyl sulfonates such as busulfan, improsulfan and piposulfan; aziridines such as benzodopa, carboquone, meturedopa, and uredopa; ethylenimines and methylamelamines including altretamine, triethylenemelamine, trietylenephosphoramide, triethylenethiophosphaorarnide and trimethylolomelamine; acetogenins (especially bullatacin and bullatacinone); a carnptothecin (including the synthetic analogue topotecan); bryostatin; callystatin; CC-1065 (including its adozelesin, carzelesin and bizelesin synthetic analogues); cryptophycins (particularly cryptophycin 1 and cryptophycin 8); dolastatin; duocarmycin (including the synthetic analogues, KW-2189 and CBI-TMI); eleutherobin; pancratistatin; a sarcodictyin; spongistatin; nitrogen mustards such as chlorambucil, chlornaphazine, cholophosphamide, estrarnustine, ifosfamide, mechlorethamine, mechlorethamine oxide hydrochloride, melphalan, novembichin, phenesterine, prednimus tine, trofosfamide, uracil mustard; nitrosureas such as carmustine, chlorozotocin, fotemustine, lomustine, nimustine, ranimustine; antibiotics such as the enediyne antibiotics (e.g. calicheamicin, especially calicheamicin (11 and calicheamicin 211, see, e.g., Agnew Chem Intl. Ed. Engl. 33:183-186 (1994); dynemicin, including dynemicin A; an esperamicin; as well as neocarzinostatin chromophore and related chromoprotein enediyne antiobiotic chromomophores), aclacinomysins, actinomycin, authramycin, azaserine, bleomycins, cactinomycin, carabicin, canninomycin, carzinophilin, chromomycins, dactinomycin, daunorubicin, detorubicin, 6-diazo-5-oxo-L-norleucine, doxorubicin (including morpholino-doxorubicin, cyanomorpholino-doxorubicin, 2-pyrrolino-doxorubicin and deoxydoxorubicin), epirubicin, esorubicin, idanrbicin, marcellomycin, mitomycins, mycophenolic acid, nogalarnycin, olivomycins, peplomycin, potfiromycin, puromycin, quelamycin, rodorubicin, streptomgrin, streptozocin, tubercidin, ubenimex, zinostatin, zorubicin; anti-metabolites such as methotrexate and 5-fluorouracil (5-FU); folic acid analogues such as denopterin, methotrexate, pteropterin, trimetrexate; purine analogs such as fludarabine, 6-mercaptopurine, thiamiprine, thioguanine; pyrimidine analogs such as ancitabine, azacitidine, 6-azauridine, carmofur, cytarabine, dideoxyuridine, doxifluridine, enocitabine, floxuridine, 5-FU; androgens such as calusterone, dromostanolone propionate, epitiostanol, mepitiostane, testolactone; anti-adrenals such as aminoglutethimide, mitotane, trilostane; folic acid replenisher such as frolinic acid; aceglatone; aldophospharnide glycoside; aminolevulinic acid; amsacrine; bestrabucil; bisantrene; edatraxate; defofamine; demecolcine; diaziquone; elfornithine; elliptinium acetate; an epothilone; etoglucid; gallium nitrate; hydroxyurea; lentinan; lonidamine; maytansinoids such as maytansine and ansamitocins; mitoguazone; mitoxantrone; mopidamol; nitracrine; pento statin; phenamet; pirarubicin; podophyllinic acid; 2-ethylhydrazide; procarbazine; PSK®; razoxane; rhizoxin; sizofiran; spirogennanium; tenuazonic acid; triaziquone; 2,2',2"-trichlorotriethylarnine; trichothecenes (especially T-2 toxin, verracurin A, roridinA and anguidine); urethan; vindesine; dacarbazine; mannomustine; mitobromtol; mitolactol; pipobroman; gacytosine; arabinoside ("Ara-C"); cyclophosphamide; thiotepa; taxoids, e.g. paclitaxel (TAXOL®, Bristol-Myers Squibb Oncology, Princeton, N.].) and doxetaxel (TAXOTERE®, Rhone-Poulenc Rorer, Antony, France); chlorambucil; gemcitabine; 6-thioguanine; mercaptopurine; methotrexate; platinum analogs such as cisplatin and carboplatin; vinblastine; platinum; etoposide (VP-16); ifosfamide; mitomycin C; mitoxantrone; vincristine; vinorelbine; navelbine; novantrone; teniposide; daunomycin; aminopterin; xeloda; ibandronate; CPT-1 1 ; topoisomerase inhibitor RFS 2000; difluoromethylornithine (DMFO); retinoic acid; capecitabine; and phannaceutically acceptable salts, acids or derivatives of any of the above. Also included in this definition are antihormonal agents that act to regulate or inhibit honnone action on tumors such as anti-estrogens including for example tamoxifen, raloxifene, aromatase inhibiting 4(5)-imidazoles, 4-hydroxytamoxifen, trioxifene, keoxifene, LY117018, onapristone, and toremifene (Fareston); and anti-androgens such as flutamide, nilutamide, bicalutamide, leuprolide, and goserelin; and phannaceutically acceptable salts, acids or derivatives of any of the above.

In some embodiments, the treatment consists of administering to the subject a targeted cancer therapy. Targeted cancer therapies are drugs or other substances that block the growth and spread of cancer by interfering with specific molecules ("molecular targets") that are involved in the growth, progression, and spread of cancer. Targeted cancer therapies are sometimes called "molecularly targeted drugs," "molecularly targeted therapies," "precision medicines," or similar names. In some embodiments, the targeted therapy consists of administering the subject with a tyrosine kinase inhibitor. The term “tyrosine kinase inhibitor” refers to any of a variety of therapeutic agents or drugs that act as selective or non-selective inhibitors of receptor and/or non-receptor tyrosine kinases. Tyrosine kinase inhibitors and related compounds are well known in the art and described in U.S Patent Publication 2007/0254295, which is incorporated by reference herein in its entirety. It will be appreciated by one of skill in the art that a compound related to a tyrosine kinase inhibitor will recapitulate the effect of the tyrosine kinase inhibitor, e.g., the related compound will act on a different member of the tyrosine kinase signaling pathway to produce the same effect as would a tyrosine kinase inhibitor of that tyrosine kinase. Examples of tyrosine kinase inhibitors and related compounds suitable for use in methods of embodiments of the present invention include, but are not limited to, dasatinib (BMS-354825), PP2, BEZ235, saracatinib, gefitinib (Iressa), sunitinib (Sutent; SU11248), erlotinib (Tarceva; OSI-1774), lapatinib (GW572016; GW2016), canertinib (CI 1033), semaxinib (SU5416), vatalanib (PTK787/ZK222584), sorafenib (BAY 43-9006), imatinib (Gleevec; STI571), leflunomide (SU101), vandetanib (Zactima; ZD6474), MK-2206 (8-[4-aminocyclobutyl)phenyl]-9-phenyl-1,2,4-triazolo[3,4-f][1,6]naphthyridin-3(2H)-one hydrochloride) derivatives thereof, analogs thereof, and combinations thereof. Additional tyrosine kinase inhibitors and related compounds suitable for use in the present invention are described in, for example, U.S Patent Publication 2007/0254295, U.S. Pat. Nos. 5,618,829, 5,639,757, 5,728,868, 5,804,396, 6,100,254, 6,127,374, 6,245,759, 6,306,874, 6,313,138, 6,316,444, 6,329,380, 6,344,459, 6,420,382, 6,479,512, 6,498,165, 6,544,988, 6,562,818, 6,586,423, 6,586,424, 6,740,665, 6,794,393, 6,875,767, 6,927,293, and 6,958,340, all of which are incorporated by reference herein in their entirety. In certain embodiments, the tyrosine kinase inhibitor is a small molecule kinase inhibitor that has been orally administered and that has been the subject of at least one Phase I clinical trial, more preferably at least one Phase II clinical, even more preferably at least one Phase III clinical trial, and most preferably approved by the FDA for at least one hematological or oncological indication. Examples of such inhibitors include, but are not limited to, Gefitinib, Erlotinib, Lapatinib, Canertinib, BMS-599626 (AC-480), Neratinib, KRN-633, CEP-11981, Imatinib, Nilotinib, Dasatinib, AZM-475271, CP-724714, TAK-165, Sunitinib, Vatalanib, CP-547632, Vandetanib, Bosutinib, Lestaurtinib, Tandutinib, Midostaurin, Enzastaurin, AEE-788, Pazopanib, Axitinib, Motasenib, OSI-930, Cediranib, KRN-951, Dovitinib, Seliciclib, SNS-032, PD-0332991, MKC-I (Ro-317453; R-440), Sorafenib, ABT-869, Brivanib (BMS-582664), SU-14813, Telatinib, SU-6668, (TSU-68), L-21649, MLN-8054, AEW-541, and PD-0325901.

In some embodiments, the treatment consists of administering to the subject an anti-VEGF agent. As used herein an "anti-VEGF agent" refers to a molecule that inhibits VEGF - mediated angiogenesis, vasculogenesis, or undesirable vascular permeability. For example, an anti-VEGF therapeutic may be an antibody to or other antagonist of VEGF. An "anti-VEGF antibody" is an antibody that binds to VEGF with sufficient affinity and specificity to be useful in a method of the invention. An anti-VEGF antibody will usually not bind to other VEGF homologues such as VEGF- B or VEGF-C, or other growth factors such as P1GF, PDGF or bFGF. A preferred anti- VEGF antibody is a monoclonal antibody that binds to the same epitope as the monoclonal anti-VEGF antibody A4.6.1 produced by hybridoma ATCC® HB 10709 and is a high-affinity anti-VEGF antibody. A "high-affinity anti-VEGF antibody" has at least 10-fold better affinity for VEGF than the monoclonal anti-VEGF antibody A4.6.1. Preferably the anti-VEGF antibody is a recombinant humanized anti-VEGF monoclonal antibody fragment generated according to WO 98/45331, including an antibody comprising the CDRs or the variable regions of Y0317. More preferably, anti-VEGF antibody is the antibody fragment known as ranibizumab (LUCENTIS ®). The anti-VEGF antibody ranibizumab is a humanized, affinity-matured anti-human VEGF Fab fragment. Ranibizumab is produced by standard recombinant technology methods in E. coli expression vector and bacterial fermentation. Ranibizumab is not glycosylated and has a molecular mass of -48,000 daltons. See W098/45331 and U.S. 2003/0190317. Anti-VEGF agents include but are not limited to bevacizumab (rhuMab VEGF, Avastin®, Genentech, South San Francisco Calif.), ranibizumab (rhuFAb V2, Lucentis®, Genentech), pegaptanib (Macugen®, Eyetech Pharmaceuticals, New York N.Y.), sunitinib maleate (Sutent®, Pfizer, Groton Conn.)

In some embodiments, the treatment consists of administering to the subject an immunotherapeutic agent. The term "immunotherapeutic agent," as used herein, refers to a compound, composition or treatment that indirectly or directly enhances, stimulates or increases the body's immune response against cancer cells and/or that decreases the side effects of other anticancer therapies. Immunotherapy is thus a therapy that directly or indirectly stimulates or enhances the immune system's responses to cancer cells and/or lessens the side effects that may have been caused by other anti-cancer agents. Immunotherapy is also referred to in the art as immunologic therapy, biological therapy biological response modifier therapy and biotherapy. Examples of common immunotherapeutic agents known in the art include, but are not limited to, cytokines, cancer vaccines, monoclonal antibodies and non-cytokine adjuvants. Alternatively the immunotherapeutic treatment may consist of administering the subject with an amount of immune cells (T cells, NK, cells, dendritic cells, B cells...).

Immunotherapeutic agents can be non-specific, i.e. boost the immune system generally so that the human body becomes more effective in fighting the growth and/or spread of cancer cells, or they can be specific, i.e. targeted to the cancer cells themselves immunotherapy regimens may combine the use of non-specific and specific immunotherapeutic agents.

Non-specific immunotherapeutic agents are substances that stimulate or indirectly improve the immune system. Non-specific immunotherapeutic agents have been used alone as a main therapy for the treatment of cancer, as well as in addition to a main therapy, in which case the non-specific immunotherapeutic agent functions as an adjuvant to enhance the effectiveness of other therapies (e.g. cancer vaccines). Non-specific immunotherapeutic agents can also function in this latter context to reduce the side effects of other therapies, for example, bone marrow suppression induced by certain chemotherapeutic agents. Non-specific immunotherapeutic agents can act on key immune system cells and cause secondary responses, such as increased production of cytokines and immunoglobulins. Alternatively, the agents can themselves comprise cytokines. Non-specific immunotherapeutic agents are generally classified as cytokines or non-cytokine adjuvants.

A number of cytokines have found application in the treatment of cancer either as general non-specific immunotherapies designed to boost the immune system, or as adjuvants provided with other therapies. Suitable cytokines include, but are not limited to, interferons, interleukins and colony-stimulating factors.

Interferons (IFNs) contemplated by the present invention include the common types of IFNs, IFN-alpha (IFN-α), IFN-beta (IFN-β) and IFN-gamma (IFN-γ). IFNs can act directly on cancer cells, for example, by slowing their growth, promoting their development into cells with more normal behaviour and/or increasing their production of antigens thus making the cancer cells easier for the immune system to recognise and destroy. IFNs can also act indirectly on cancer cells, for example, by slowing down angiogenesis, boosting the immune system and/or stimulating natural killer (NK) cells, T cells and macrophages. Recombinant IFN-alpha is available commercially as Roferon (Roche Pharmaceuticals) and Intron A (Schering Corporation).

Interleukins contemplated by the present invention include IL-2, IL-4, IL-11 and IL-12. Examples of commercially available recombinant interleukins include Proleukin® (IL-2; Chiron Corporation) and Neumega® (IL-12; Wyeth Pharmaceuticals). Zymogenetics, Inc. (Seattle, Wash.) is currently testing a recombinant form of IL-21, which is also contemplated for use in the combinations of the present invention.

Colony-stimulating factors (CSFs) contemplated by the present invention include granulocyte colony stimulating factor (G-CSF or filgrastim), granulocyte-macrophage colony stimulating factor (GM-CSF or sargramostim) and erythropoietin (epoetin alfa, darbepoietin). Treatment with one or more growth factors can help to stimulate the generation of new blood cells in subjects undergoing traditional chemotherapy. Accordingly, treatment with CSFs can be helpful in decreasing the side effects associated with chemotherapy and can allow for higher doses of chemotherapeutic agents to be used. Various-recombinant colony stimulating factors are available commercially, for example, Neupogen® (G-CSF; Amgen), Neulasta (pelfilgrastim; Amgen), Leukine (GM-CSF; Berlex), Procrit (erythropoietin; Ortho Biotech), Epogen (erythropoietin; Amgen), Arnesp (erytropoietin).

In addition to having specific or non-specific targets, immunotherapeutic agents can be active, i.e. stimulate the body's own immune response, or they can be passive, i.e. comprise immune system components that were generated external to the body.

Passive specific immunotherapy typically involves the use of one or more monoclonal antibodies that are specific for a particular antigen found on the surface of a cancer cell or that are specific for a particular cell growth factor. Monoclonal antibodies may be used in the treatment of cancer in a number of ways, for example, to enhance a subject's immune response to a specific type of cancer, to interfere with the growth of cancer cells by targeting specific cell growth factors, such as those involved in angiogenesis, or by enhancing the delivery of other anticancer agents to cancer cells when linked or conjugated to agents such as chemotherapeutic agents, radioactive particles or toxins.

In some embodiments, the immunotherapeutic agent is an immune checkpoint inhibitor. As used herein, the term "immune checkpoint inhibitor" refers to molecules that totally or partially reduce, inhibit, interfere with or modulate one or more checkpoint proteins. Checkpoint proteins regulate T-cell activation or function. Numerous checkpoint proteins are known, such as CTLA-4 and its ligands CD 80 and CD86; and PD1 with its ligands PDLl and PDL2 (Pardoll, Nature Reviews Cancer 12: 252-264, 2012). These proteins are responsible for co-stimulatory or inhibitory interactions of T-cell responses. Immune checkpoint proteins regulate and maintain self-tolerance and the duration and amplitude of physiological immune responses. Immune checkpoint inhibitors include antibodies or are derived from antibodies. In some embodiments, the immune checkpoint inhibitor is an antibody selected from the group consisting of anti-CTLA4 antibodies (e.g. Ipilimumab), anti-PD1 antibodies, anti-PDL1 antibodies, anti-TIMP3 antibodies, anti-LAG3 antibodies, anti-B7H3 antibodies, anti-B7H4 antibodies, anti-BTLA antibodies, and anti-B7H6 antibodies. Examples of anti-CTLA-4 antibodies are described in US Patent Nos: 5,811,097; 5,811,097; 5,855,887; 6,051,227; 6,207,157; 6,682,736; 6,984,720; and 7,605,238. One anti-CDLA-4 antibody is tremelimumab, (ticilimumab, CP-675,206). In some embodiments, the anti-CTLA-4 antibody is ipilimumab (also known as 10D1, MDX-D010) a fully human monoclonal IgG antibody that binds to CTLA-4. Another immune checkpoint protein is programmed cell death 1 (PD-1). Examples of PD-1 and PD-11 blockers are described in US Patent Nos. 7,488,802; 7,943,743; 8,008,449; 8,168,757; 8,217,149, and PCT Published Patent Application Nos: WO03042402, WO2008156712, WO2010089411, WO2010036959, WO2011066342, WO2011159877, WO2011082400, and WO2011161699. In some embodiments, the PD-1 blockers include anti-PD-Ll antibodies. In certain other embodiments the PD-1 blockers include anti-PD-1 antibodies and similar binding proteins such as nivolumab (MDX 1106, BMS 936558, ONO 4538), a fully human IgG4 antibody that binds to and blocks the activation of PD-1 by its ligands PD-Ll and PD-L2; lambrolizumab (MK-3475 or SCH 900475), a humanized monoclonal IgG4 antibody against PD-1 ; CT-011 a humanized antibody that binds PD-1 ; AMP-224 is a fusion protein of B7-DC; an antibody Fc portion; BMS-936559 (MDX- 1105-01) for PD-Ll (B7-H1) blockade. Other immune-checkpoint inhibitors include lymphocyte activation gene-3 (LAG-3) inhibitors, such as IMP321, a soluble Ig fusion protein (Brignone et al., 2007, J. Immunol. 179:4202-4211). Other immune-checkpoint inhibitors include B7 inhibitors, such as B7-H3 and B7-H4 inhibitors. In particular, the anti-B7-H3 antibody MGA271 (Loo et al., 2012, Clin. Cancer Res. July 15 (18) 3834). Also included are TIM3 (T-cell immunoglobulin domain and mucin domain 3) inhibitors (Fourcade et al., 2010, J. Exp. Med. 207:2175-86 and Sakuishi et al., 2010, J. Exp. Med. 207:2187-94).

In some embodiments, the immunotherapeutic treatment consists of an adoptive immunotherapy as described by Nicholas P. Restifo, Mark E. Dudley and Steven A. Rosenberg “Adoptive immunotherapy for cancer: harnessing the T cell response, Nature Reviews Immunology, Volume 12, April 2012). In adoptive immunotherapy, the patient’s circulating lymphocytes, or tumor infiltrated lymphocytes, are isolated in vitro, activated by lymphokines such as IL-2 and readministered (Rosenberg et al., 1988; 1989). The activated lymphocytes are most preferably be the patient’s own cells that were earlier isolated from a blood sampke and activated (or “expanded”) in vitro. In some embodiments, the subject is administered with host cells that express a chimeric antigen receptor. As used herein, the term “chimeric antigen receptor” or “CAR” has its general meaning in the art and refers to an artificially constructed hybrid protein or polypeptide containing the antigen binding domains of an antibody (e.g., scFv) linked to T- cell signaling domains. Characteristics of CARs include their ability to redirect T-cell specificity and reactivity toward a selected target in a non-MHC-restricted manner, exploiting the antigen-binding properties of monoclonal antibodies. The non-MHC-restricted antigen recognition gives T cells expressing CARs the ability to recognize antigen independent of antigen processing, thus bypassing a major mechanism of tumor escape. Moreover, when expressed in T-cells, CARs advantageously do not dimerize with endogenous T cell receptor (TCR) alpha and beta chains. While the host cell can be of any cell type, can originate from any type of tissue, and can be of any developmental stage, the host cell is a T cell, e.g. isolated from peripheral blood lymphocytes (PBL) or peripheral blood mononuclear cells (PBMC). In some embodiments, the T cell can be any T cell, such as a cultured T cell, e.g., a primary T cell, or a T cell from a cultured T cell line, e.g., Jurkat, SupTl, etc., or a T cell obtained from a mammal. If obtained from a mammal, the T cell can be obtained from numerous sources, including but not limited to blood, bone marrow, lymph node, the thymus, or other tissues or fluids. T cells can also be enriched for or purified. The T cell can be any type of T cell and can be of any developmental stage, including but not limited to, CD4+/CD8+ double positive T cells, CD4+ helper T cells, e.g., Th2 cells, CD8+ T cells (e.g., cytotoxic T cells), tumor infiltrating cells, memory T cells, naive T cells, and the like. The T cell may be a CD8+ T cell or a CD4+ T cell. The population of those T cells prepared as described above can be utilized in methods and compositions for adoptive immunotherapy in accordance with known techniques, or variations thereof that will be apparent to those skilled in the art based on the instant disclosure. See, e.g., US Patent Application Publication No. 2003/0170238 to Gruenberg et al; see also US Patent No. 4,690,915 to Rosenberg. Adoptive immunotherapy of cancer refers to a therapeutic approach in which immune cells with an antitumor reactivity are administered to a tumor-bearing host, with the aim that the cells mediate either directly or indirectly, the regression of an established tumor. Transfusion of lymphocytes, particularly T lymphocytes, falls into this category. Currently, most adoptive immunotherapies are autolymphocyte therapies (ALT) directed to treatments using the patient's own immune cells. These therapies involve processing the patient's own lymphocytes to either enhance the immune cell mediated response or to recognize specific antigens or foreign substances in the body, including the cancer cells. The treatments are accomplished by removing the patient's lymphocytes and exposing these cells in vitro to biologics and drugs to activate the immune function of the cells. Once the autologous cells are activated, these ex vivo activated cells are reinfused into the patient to enhance the immune system to treat cancer. In some embodiments, the cells are formulated by first harvesting them from their culture medium, and then washing and concentrating the cells in a medium and container system suitable for administration (a "pharmaceutically acceptable" carrier) in a treatment-effective amount. Suitable infusion medium can be any isotonic medium formulation, typically normal saline, Normosol R (Abbott) or Plasma-Lyte A (Baxter), but also 5% dextrose in water or Ringer's lactate can be utilized. The infusion medium can be supplemented with human serum albumin. A treatment-effective amount of cells in the composition is dependent on the relative representation of the T cells with the desired specificity, on the age and weight of the recipient, on the severity of the targeted condition and on the immunogenicity of the targeted Ags. These amount of cells can be as low as approximately 10^3/kg, preferably $5x10^3$/kg; and as high as 10^7/kg, preferably 10^8/kg. The number of cells will depend upon the ultimate use for which the composition is intended, as will the type of cells included therein. For example, if cells that are specific for a particular Ag are desired, then the population will contain greater than 70%, generally greater than 80%, 85% and 90-95% of such cells. For uses provided herein, the cells are generally in a volume of a liter or less, can be 500 ml or less, even 250 ml or 100 ml or less. The clinically relevant number of immune cells can be apportioned into multiple infusions that cumulatively equal or exceed the desired total amount of cells.

The immunotherapeutic treatment may consist of allografting, in particular, allograft with hematopoietic stem cell HSC. The immunotherapeutic treatment may also consist in an adoptive immunotherapy as described by Nicholas P. Restifo, Mark E. Dudley and Steven A. Rosenberg “Adoptive immunotherapy for cancer: harnessing the T cell response, Nature Reviews Immunology, Volume 12, April 2012). In adoptive immunotherapy, the subject’s circulating lymphocytes, NK cells, are isolated amplified *in vitro* and readministered to the subject. The activated lymphocytes or NK cells are most preferably be the subject’s own cells that were earlier isolated from a blood or tumor sample and activated (or “expanded”) *in vitro*.

In some embodiments, the treatment consists of administering to the subject a radiotherapeutic agent. The term "radiotherapeutic agent" as used herein, is intended to refer to any radiotherapeutic agent known to one of skill in the art to be effective to treat or ameliorate cancer, without limitation. For instance, the radiotherapeutic agent can be an agent such as those administered in brachytherapy or radionuclide therapy. Such methods can optionally further comprise the administration of one or more additional cancer therapies, such as, but not limited to, chemotherapies, and/or another radiotherapy.

The invention will be further illustrated by the following figures and examples. However, these examples and figures should not be interpreted in any way as limiting the scope of the present invention.

EXAMPLES

Material and methods

1. Gene Expression Profiles (GEP) datasets

From public repositories, we curated transcriptomic profiles from several types of samples (Microenvironment Cell Populations (MCP), non-hematopoietic human tumors, non-diseased human tissues, in-vitro RNA mixtures) obtained from different gene expression platforms (mainly Affymetrix HGU 133 Plus 2.0, HGU 133A, HuGene 1.0 ST and Illumina HiSeq 2000). For survival analysis, transcriptomic profiles of non-hematopoietic human tumors with Overall Survival annotations were also included. The table below lists the types of samples curated, stratified by gene expression platforms, and points to the identifiers of the included samples.

2. GEP normalization

Affymetrix Human Genome 133 Plus 2.0, Human Genome 133A, HuGene 1.0 ST arrays

MCP datasets and tumor datasets from Affymetrix Human Genome 133 Plus 2.0, Human Genome 133A, HuGene 1.0 ST arrays were normalized using the frozen robust multiarray average (fRMA) method, implemented in the 'fRMA' R package (version 1.18.0). Unlike RMA, fRMA uses fixed estimates of probe-specific effects and variances, allowing a consistent normalization of GEP from different series, provided that they were obtained on the same gene expression platform.

GEP obtained with the Affymetrix Human Genome 133 Plus 2.0, Human Genome 133A, HuGene 1.0 ST arrays platforms were thus normalized using the 'frma' function of the 'frma' Bioconductor R package using the preprocessing input vectors provided respectively by the Bioconductor R packages 'frmahgu133plus2frmavecs' version 1.3.0, 'frma133afrmavecs' version 1.3.0 and 'hugene.1.0.st.v1frmavecs' version 1.0.0. The 'frma' method was called on batches of CEL files corresponding to individual series.

The Cancer Genome Atlas gene expression data

Gene expression data from non-currently-embargoed TCGA projects were obtained from the TCGA data portal (https://tcga-data.nci.nih.gov/tcga/dataAccessMatrix.htm). Only GEP obtained using Illumina HiSeq 2000 were retrieved. Already-normalized 'level 3' data were downloaded separately for each project. The resulting '*.rsem.genes.normalized_results files' were then merged into a single pan-cancer expression matrix.

Other gene expression platforms

For GEP obtained using other gene expression platforms, we used pre-processed GEP data as published by each studies' authors and available from the corresponding public repositories.

3. Publicly available samples' annotations

MCP datasets - Discovery serie (Affymetrix 133 Plus 2.0 arrays)

Samples were annotated according to the author-reported phenotypes yielding 344 distinct labels (data not shown). We recoded these labels into 63 categories, including 21 cancer cell phenotypes (42 immune and stromal labels).

MCP datasets - Validation series (Affymetrix 133A and Affymetrix HuGene 1.0 ST arrays)

Samples were annotated according to the 63 labels used to annotate the discovery MCP series. The previously-defined 63 categories did not fit the phenotype of a few samples and motivated the addition of 15 categories (data not shown). These newly-defined categories all refine some of the initial 63 labels.

Non-diseased human tissues (GEO:GSE7307)

Samples' annotations were retrieved from GEO:GSE7307. Samples corresponding to diseased tissues, cell lines or sorted immune cells were discarded, retaining only the non-diseased cellularly-heterogeneous samples. For clarity, some tissues were regrouped in broader anatomical locations (data not shown). Anatomical systems were manually added.

Non-hematopoietic tumor samples series

From the three tumor datasets, only samples corresponding to primary tumors obtained from tumor resections with no neoadjuvant treatments and that did not use laser capture microdissection were retained for analysis (data not shown).

Annotations for samples retrieved from GEO (respectively from ArrayExpress) were retrieved from the 'Series matrix' files (respectively from 'sdrf' files). Annotations for TCGA samples were retrieved from the TCGA data portal (https://tcga-data.nci.nih.gov/tcga/dataAccessMatrix.htm).

Since annotations originated from many different groups, only a subset of the variables were retained for each series. The corresponding values were harmonized into a consistent ontology. The following list contains the final set of variables for which samples' annotations were retained:

- Sample identifiers
- Series identifiers
- Gene expression platform
- Cancer type
- Sample type (Autopsy, Biopsy, Cell culture, Surgery followed by laser capture microdissection, Surgery)
- Overall survival event and delay (months)

Non-hematopoietic tumor samples series (Other platforms)

Only sample identifiers, tumor types, sample status and Overall Survival were retained.

Removal of tumor samples duplicates

Some tumor GEP are present in multiple public datasets and correctly labeled as 'Reanalyzed'. In this case, only the original sample was considered for analysis. To avoid unspecified duplicated GEP, we computed MD5 checksums for all uncompressed CEL files. Samples with identical MD5 checksums were considered duplicates. In this case, only the sample belonging to the oldest series was kept. Annotations present on the most recent sample instance and absent from the older sample instance were added to the older sample's annotation. Conflicting annotations were resolved by keeping the oldest annotation. These conflicts never occurred for clinical follow-up variables.

4. Selection of the transcriptomic markers (TM)

Organization of the samples into a pyramidal graph of categories

We define as a pyramid a directed acyclic graph with a root node. Samples of microenvironment purified cells were labeled according to their reported immune or stromal populations, resulting in 63 distinct labels in the MCP discovery series, with an addition of 15 labels for the MCP validation series, resulting in a total of 78 labels. We organized these labels in a pyramidal graph (data not shown) with nodes representing populations (categories), and directed edges representing relations of inclusion. For instance, the labels “CD8+ T cells”, “CD4+ T cells”, “T$\gamma\delta$ cells”, “Memory T cells”, “Activated T cells” and “Naïve T cells”, and all labels included in them (for instance “Effector-memory CD8 T cells”), form the “T cells” category, which itself is included in the “T/NK lineage” category. Of these 78 labels of samples, some correspond to terminal leaves of this pyramid (ex. “Canonical CD4 Treg cells”), while some others do correspond to higher level nodes (ex. Peripheral-Blood Mononuclear Cells, “PBMC”). In addition to these 78 labels, 15 hematopoiesis or immunology-inspired categories that are not directly represented by samples but relevant for their organization in a structured pyramid (for instance “Lymphocytes”) or as potential cell population (for instance “antigen-experienced B cells”) were added (Supplementary Table S12). Categories corresponding to tumor samples were discarded for the identification of TM and only kept as negative controls, resulting in 68 categories available for screening.

Having defined this set of 78 labels and 68 categories (53 categories are directly represented by labels, with 15 additional categories not directly represented in the dataset), we exhaustively encoded the relationships between labels and categories using three possible relationships (data not shown). Relative to a category, we define three sets of samples:

C : ‘positive samples’ are those whose label is included in the category (all cells composing a sample which is in C are in the category)

C^{-}: ‘negative samples’ are those whose label is strictly non-overlapping with the category (all cells of a sample which is in $C^{-}$are not in the category)

-1 : ‘mixed samples’ are those whose label is partly overlapping with the category (some cells of the sample are in C and some are in C^{-}).

For instance, for CD8+ T cells, C is the set of samples whose label is “CD8 T cells” or “Effector memory CD8 T cells” (Supplementary Figure S1, Supplementary Table S12), mixed samples are for instance CD3+ T cells as they mix CD4+ and CD8+ T cells, or PBMC as they mix CD8+ T cells with e.g. monocytes. $C^{-}$is defined as all non-positive non-mixed samples.

Hence, strict exclusion or mixture relationships are not represented but are taken into account during the screening process (data not shown).

Selection of TMs for each category

We performed an exhaustive exploration of the categories’ pyramid to screen for the existence of potential transcriptomic markers at each node. Set of positive samples are C and negative samples are C^{-}(mixed samples are discarded for this node). Given this two sets of samples, a triplet of probeset-level statistics was computed per probeset: the positive Area Under the ROC Curve (AUC), the fold-change (FC) and a specific fold-change (sFC), with the latter-two with the following definitions:

(1) $FC = X - X^{-}$

(2) $sFC = (X - X^{-}\_min)/(X^{-}\_max - X^{-}\_min)$

where we denote by X the centroid (i.e. average across all samples) of category C , X^{-} the centroid of C^{-}, X^{-}_j the centroid of any class j composing C^{-}(j=1..k) , $X^{-}min$ the min value across centroids of classes composing C^{-}($X^{-}\_min = minj \in 1..k \{X^{-}\_j\}$), $X^{-}max$ the max value across centroids of classes composing C^{-} ($X^{-}\_max = maxj \in 1..k \{X^{-}\_j\}$). The specific fold-change both accounts for a high expression in C compared to C^{-} and a low variability within C^{-}.

For each non-root node of the pyramid, probesets with AUC>0.97, FC>2 and sFC>1.5 were retained (data not shown).

Selection of TM sets for 10 populations

Having selected in an unbiased manner the markers for each level of the pyramid, we manually selected the most relevant TM sets: we discarded

very broad categories (such as 'stromal cells' which would, in a tumor, designate all non-malignant cells from the microenvironment)

categories with too few positive samples to reliably identify robust markers from high-dimensional data

those for which no appropriate controls were represented in the discovery series

those for which no markers were identified.

Reduction of TM sets for four populations

For four populations (Neutrophils, Endothelial cells, Fibroblasts and cells of the B lineage), the number of TM identified in the Discovery series was much higher (>90) than for the other cell populations (<25). To obtain more balanced marker sets, we performed the same selection process on the validation series, obtaining TM sets overlapping with those identified on the discovery series (Supplementary Table S3). To reduce the number of markers, we thus took the intersection of the markers across the three MCP series (B lineage, fibroblasts), or the discovery and the HuGene 1.0ST series (Endothelial cells), or the discovery and the Affymetrix

HGU 133A series (Neutrophils). Of note, this filtering step was not performed for the figures where data from the MCP validation series were used (data not shown).

5. Computation of MCP-counter scores

Given a set of transcriptomic markers of a given category, we computed a corresponding per-sample score, called hereafter a MCP-counter score, using the log2 geometric mean of this set of markers.

6. Correlation profiles of transcriptomic markers in MCP and tumor datasets (Supplementary Fig S5-S7)

For a given set of TMs, corresponding features were subsetted from the expression matrices of the three MCP series and three primary tumor series (Affymetrix 133 Plus 2.0, 133A, and TCGA). On these six matrices, Pearson correlation coefficients were computed for each pair of features.

7. RNA mixture models

Peripheral blood immune cells sorting

Peripheral venous blood was extracted for 3 healthy donor using heparin vacuntainer tubes (BD Bioscience). Peripheral blood mononuclear (PBMC) or polymorphonuclear cells (PMN) were isolated using Ficoll-Paque PLUS (GE Healthcare Life Sience) or Polymorph Prep (Axis-Shield) density gradient, respectively. PBMCs were stained with anti-CD3 FITC (Clone UCHT1), anti-CD14 APC (MΦP9), anti-CD19 ECD (J3-119) and anti-CD56 PE (B159); and PMNs with anti-CD66b FITC (G10F5), anti-CD19 ECD (J3-119), anti-CD3 PE (UCHT1), anti-CD56 PE (B159) and anti-CD14 APC (MΦP9). Cell sorting was done in a FACS Aria cytometer (BD Bioscience), and cell purity higher than 97% was always achieved. We sorted the following populations: T cells (DAPI-/CD3+/CD14-/CD19-/CD56-), monocytes (DAPI-/CD3-/CD14+/CD19-/CD56-), B cells (DAPI-/CD3-/CD14-/CD19+/CD56-) and NK cells (DAPI-/CD3-/CD14-/CD19-/CD56+) on PBMCs, and neutrophils (DAPI-/CD66b+/CD19-/CD3-/CD56-/CD14-) on PMNs.

Cell culture

HCT116 were purchased from ATCC and cultured according to vendor’s instructions.

RNA extraction

Cells were lysed in RLT (QIAGEN)-1% mercaptoethanol buffer, and RNA was purified with a Maxwell 16 simplyRNA Kit (Promega) according to manufacturer's instructions. Genetic material quality and quantity were determined with a 2100 Bioanalyzer Instrument (Agilent Technologies).

Mixtures of RNA solutions

A set of four 2-fold serial dilutions were performed on each aliquot of RNA extracted from sorted peripheral blood immune cells, yielding solutions of decreasing concentration S0 to S4 for each cell population. Ten aliquots were used to mix these solutions using two transposed latin squares layout.

The volume corresponding to ten nanograms of a solution of HCT116 colorectal-cancer cell line-extracted mRNA was then added to the Mixes 3 to 12. Two additional samples (Mixes 1 and 2) of pure HCT116 mRNA were also included.

Microarrays hybridization

Biotinylated double strand cDNA targets were prepared from 10 ng of total RNA using the NuGEN Ovation Pico WTA System V2 Kit (Cat # 3302) followed by the NuGEN Encore Biotin Module Kit (Cat # 4200) according to manufacturer recommendations. Following fragmentation and labeling, 4.55 µg of cDNAs were hybridized for 16 hours at 45°C, 60 rpm on Human GeneChip HG-U133 plus 2.0 arrays (Affymetrix). The chips were washed and stained in the GeneChip Fluidics Station 450 (Affymetrix) using the FS450_0004 script and scanned with the GeneChip Scanner 3000 7G (Affymetrix) at a resolution of 1.56 µm. Raw data (.CEL Intensity files) were extracted from the scanned images using the Affymetrix GeneChip Command Console (AGCC) version 4.0.

Correlation between MCP-counter scores and known mRNA proportions

MCP-counter scores were computed from the fRMA-normalized RNA-mixture microarray dataset and plotted against the known mRNA log-proportions. Pearson correlation coefficients and the corresponding tests against the t distribution were performed.

Estimation of the limit of detection

For each of the five sorted cell populations (NK cells, B cells, T cells, Monocytes, Neutrophils), we fitted a least-square linear regression model of the known mRNA log-proportions with the corresponding MCP-counter score as predictive variable using the 10 mRNA mixture samples.

The MCP-counter scores for non-hematopoietic samples from the 'MCP Discovery series' were computed. The above-described linear fits were used to predict the mRNA fraction of the five sorted cell populations from the corresponding MCP-counter scores. The exponential of the mean of the estimated log-proportions across non-hematopoietic samples is reported as the estimate of the limit of detection for each immune cell population assayed.

Data deposition

The transcriptome data of the 12 mixture samples has been deposited in NCBI's Gene Expression Omnibus and are accessible through GEO Series accession number GSE64385.

8. Immunohistochemistry-based cellular densities estimates

Serial 5 µm formalin-fixed paraffin-embedded (FFPE) tissue sections from colorectal cancer were stained using autostainerPlus Link 48 (Dako). Antigen retrieval and deparaffinization were carried out on a PT-Link (Dako) using the EnVision FLEX Target Retrieval Solutions (Dako). The antibodies used are listed in Supplementary Table S14. Peroxidase activity was detected using diaminobenzidine substrate (Dako). Slides stained with anti-CD3, anti-CD8A and anti-CD68 were digitalized with a NanoZoomer scanner (Hamamatsu). The densities of positive cells in the tumor core were measured using Calopix software (Tribvn, France).

9. Mapping of Affymetrix probesets to genes identifiers

For Affymetrix HGU 133 Plus 2.0, 133A, and HuGene 1.0 ST arrays, probesets were mapped to genes identifiers using annotations provided by Affymetrix version 35.

TCGA GEP are annotated with ENTREZ identifiers which were converted to HUGO symbols using ftp://ftp.ncbi.nih.gov/gene/DATA/GENE_INFO/Mammalia/Homo_sapiens.gene_info.gz (retrieved on 2015_05_20).

10. R implementation of the MCP-counter method

We implemented MCP-counter as an R package called 'MCPcounter'. Users should call the 'MCPcounter.estimate' function, which takes a normalized gene expression matrix as its first argument, and the type of features that should be mapped to selected transcriptomic markers (probesets, HUGO symbols, ENTREZ ID) as its second argument.

We used mapped transcriptomic markers to 'probesets' to compute MCP-counter scores for 'Affymetrix 133 Plus 2.0' and 'Affymetrix 133A' samples, and HUGO symbols identifiers for samples obtained on 'Affymetrix HuGene 1.0 ST', 'Illumina Hiseq' and other gene expression platforms.

This package is available at the following URL: http://cit.ligue-cancer.net/?page_id=780&lang=en

11. Simulation of mRNA mixtures (data not shown)

Simulations were performed according to the following 5-steps procedure: 1) For each the following five immune cell populations (T cells, NK cells, B cells, Monocytic lineage, Neutrophils), randomly choose one GEP from samples corresponding to the cell population of one of its cell subpopulations. In addition, choose a tumor cell line sample. 2) Create a vector of weights w=(0.01/5, 0.02/5, 0.05/5, 0.1/5, 0.2/5, 0.5/5, 0.9/5) corresponding to the weight of each immune population in the simulated mixture. Tumor cells are given the complementary weight 1-5w. 3) For each value of w, compute a linear combination of the randomly chosen GEP with weights w for each of the five immune GEP and 1-5w for tumor cells. For CIBERSORT estimates, these mixtures were computed on the linear scale and in the log2 scale for MCP-counter. 4) Add random noise drawn from the standard normal distribution to each gene expression feature of the simulated mixture. 5) Run CIBERSORT and MCP-counter algorithms on the simulated mixtures.

50 simulations were performed (leading to 350 estimates as 7 values of w per simulation run were used). Figure 4a represents, for each cell population, the mean MCP-counter scores or CIBERSORT estimates for a given value of w across the 50 simulations. For CIBERSORT, non-zero estimates of non-introduced cell populations (for instance Mast cells) were discarded, and the remaining estimates were re-normalized to sum to 1. Then, estimates for sub-populations were summed (for instance, the 'B cells' CIBERSORT estimate sums the estimates corresponding to 'B cells naïve', 'B cells memory' and 'Plasma cells' subpopulations).

12. Comparison of MCP-counter TM sets with those from other methods (data not shown)

TM sets proposed by Bindea et al. (the "Immunome" TM set) and Yoshihara et al. ("ESTIMATE" TM set) were retrieved from the corresponding publication and the ESTIMATE R package, respectively. For the 'Immunome', probesets were used as TM for the Affymetrix 133 Plus 2.0 and 133A MCP series, and gene symbols for the HuGene 1.0 ST MCP series. For ESTIMATE, gene symbols were used for all three series. For each of the three MCP series, scores were computed (See Material and Methods, section 5) from the TM sets proposed herein, the 'Immunome' and 'ESTIMATE'. For each TM set (columns), and each cell population represented in Figure 4b (rows), the average score for the TM set in this cell population was computed. This vector of averaged score, called the 'Pred' (for prediction) vector, was linearly mapped to a color code where the minimum value was affected to blue, the maximum to red, and the mean of the maximum and the minimum to white. A 'Truce' vector of colors, formed by the status of each cell population, was appended to each 'Prediction' vector (red, i.e. positive, if the cell population is supposed to express the genes in the TM set, blue, i.e. negative if the cell population should not express genes in the TM set, and white if the cell population mixes both positive and negative cells). An accurate TM set should thus produce blue values for 'Pred' when the 'Truce' is blue, and red values when the 'Truce' is red. White values of the 'Truce' column are less informative as expression of the TM set would then depend both on the accuracy of the TM set and on the proportion of the corresponding cell population in the sample.

13. Representative MCP-counter scores across cancers (data not shown)

In each of the three tumor series, samples were split according to their tumor type. The median MCP-counter score were computed for each cell population in each tumor type, yielding three "median matrices" (one per technological platform). Since MCP-counter scores are expressed in arbitrary units which depend on the gene expression platform used, we Z-transformed each column of these three matrices (the mean of each column was substracted on each platform, and the resulting values were multiplied by the average of the three standard deviation observed across the three platform for this column) (Supplementary Figure S8). The resulting three matrices were averaged (omitting missing values in case of a cancer missing from one or two of the datasets) (data not shown).

14. Prognostic value of MCP-counter scores

For a given cancer type, several datasets, sometimes based on different platforms, were collected. MCP-counter estimates were first computed for each dataset individually. The resulting scores were then Z-transformed for each dataset individually, leading to similar distributions of the scores across datasets. Then, univariate Cox proportional hazards models for Overall Survival (OS) were fitted separately in each dataset using the related Z-transformed MCP-counter scores. To aggregate the resulting estimates (beta values) across datasets, we used the meta-analytical R package 'meta' (function 'metagen'), using a fixed-effect model (as the scores in each series follow the same distribution). This function weights the independent estimates using an inverse-variance weighting.

15. Microenvironment-based tumor classifications

MCP-counter estimates were first computed for each dataset individually. The resulting scores were then Z-transformed for each dataset individually, leading to similar distributions of the scores across datasets. Datasets from the same cancer were then merged, and all MCP-counter variables were binarized using a median cut (leading to "High" and "Low" samples for each variable and for each cancer according to their relative position from the cancer's median value). We selected three tumor classifications from the literature (using B and T cells in lung adenocarcinoma, fibroblasts and cytotoxic lymphocytes in colorectal cancer, and macrophages and cytotoxic lymphocytes in breast cancer). For each of these three cancer, we concatenated the binarized scores for the two variables of interest, leading to four classes (High-High, High-Low, Low-High, Low-Low). The corresponding Kaplan-Meier curves for overall-survival were then plotted and the p-value of the corresponding log-rank test is reported.

Results:

Development and validation process of the MCP-counter method

We designed a method, called MCP-counter, which objective is to measure an inter-samples relative abundance of different microenvironment cell populations. To develop and validate our method, we set up a strategy in seven steps (data not shown). MCP-counter is based on the methodological framework of transcriptomic markers (TM), defined as gene-expression features expressed in one and only one cell population, and whose expression shows little variation within the population of interest (step 1). It directly follows that within a sample composed of many different cell populations, the abundance of the population of interest is proportional to the sample's expression of its related TM. Given their restrictive definition, TM are not guaranteed to exist for all populations. We set up a Discovery series by curating

Microenvironment Cell Populations (MCP) transcriptomes from 81 public datasets of 'Affymetrix_HGU_133_Plus_2.0' microarrays (step 2). These transcriptomes were normalized to allow their integration into a large meta-dataset which includes 1194 immune or non-immune microenvironment cell populations samples, and 742 non-hematopoietic tumor cell line samples as controls (Supplementary Table S1). After manual curation all the samples were annotated using 63 labels, of which 42 correspond to microenvironment cell populations and 21 represent cell lines from 21 non-hematopoietic cancer types (data not shown). We organized the 63 cell populations into a pyramidal graph according to rules of inclusions (Supplementary Figure S1). We added hematopoiesis-inspired (e.g. lymphoid and myeloid lineages) or functional (e.g. cytotoxic lymphocytes) categories to this pyramid, resulting in a total of 67 nodes corresponding to potential cellular populations of the tissue microenvironment (step 3) (data not shown). This organization was legitimated by its consistency with clusters obtained with transcriptome-based principal component analysis (step 4) (data not shown).

To identify TM of a given cell population (a node in our cell populations pyramid) (step 5), we defined as 'positive' the samples included in this population, and we defined as 'negative' the samples that do not contain this population. Samples containing both 'positive' and 'negative' cells are omitted from the analysis for this node. Three criteria were then calculated for each feature (probeset) within the Discovery set: a) the mean log2-expression difference between positive and negative samples (a threshold of 2 was applied), b) the area under the ROC curve (AUC) of the feature for the identification of the positive samples (threshold of 0.97), and c) a measure of the signal to noise ratio between positive and negative samples (threshold of 1.5) (Material and methods, Supplementary Table S2). Gene-expression features that reached the defined thresholds simultaneously for all three criteria were retained as TM for the corresponding cell population.

Since we had no a priori on the populations for which TM could be identified, we applied our selection procedure exhaustively for each non-root node of the samples' pyramid (data not shown) and selected a posteriori the most relevant TM sets. The number of identified markers at each level of this pyramidal graph is reported in Supplementary Table S3. From the 67 nodes, we retained TM for the most precise populations for which TM could be robustly identified. We thus discarded those for which appropriate 'negative' controls were not publically available (for instance, identifying TM for 'Effector Memory CD4 T cells' at least requires 'negative' controls such as 'Central Memory CD4 T cells' and 'Effector Memory CD8 T cells'), those with few 'positive' samples, or those with no identified markers after the selection procedure. Nodes corresponding to more general populations (for instance

"Lymphocytes" or "Myeloid cells") were discarded as TM for more precise daughter cell populations were available. We thus retained TMs specific for 10 distinct populations: 8 immune cell populations (T cells, CD8+ T cells, NK cells, cytotoxic lymphocytes, cells of the B lineage, of the monocytic lineage, myeloid dendritic cells, and neutrophils), and 2 non-immune stromal populations (endothelial cells and fibroblasts). The 81 datasets from the Discovery set spanned 344 different culture conditions, purifications methods and cell treatments, which ensures that the selection of TM was not sensitive to experimental conditions. MCP-counter scores were defined as the log2 average expression of the TM for each population (step 6). We then validated MCP-counter (step 7).

Qualitative validation of the identified transcriptomic markers

The reproducibility of the identified TM was assessed on two validation series of 1596 samples hybridized on 'Affymetrix_U133A' arrays and 3208 samples hybridized on 'Affymetrix_HuGene_1.0ST' arrays (data not shown). For the 10 cell populations, the specific expression patterns obtained on the discovery series were consistently reproduced (data not shown), and the same selection criteria applied to MCP validation series identified significantly overlapping TM sets (data not shown). MCP-counter scores, exhibit a clear separation of the cell types on the discovery and two validation series (data not shown), with an AUC above 0.994 for each signature on the 4804 validation samples (data not shown).

Although their identification is data-driven, and not knowledge-driven, the selected TM largely overlap with known markers of the corresponding cell populations. They include for instance probesets mapping to CD3D and CD5 for T cells, CD8B for CD8+ T cells, EOMES and GNLY for cytotoxic lymphocytes, NCR1 (NKp46) and KIR genes for NK cells, CD19, CD79A and CD79B for B cells, CSF1R for monocytic cells, CD1 molecules for myeloid dendritic cells, FCGR3B and CEACAM3 (CD66b) for neutrophils, VWF (von Willebrand Factor) and CDH5 (VE-cadherin) for endothelial cells, and DCN and TAGLN for fibroblasts (data not shown). In contrast, the screening process excluded from TM some genes usually considered as specific for a given cell population, such as BLK that we found overexpressed not only in B cells but also at a lower level in plasmacytoid dendritic cells, a result which supports the relevance of a data-driven approach (data not shown).

Since for a given cell population, the TM are expected to be coordinately expressed, we examined the correlation matrices of the TM on the three MCP datasets. We observed highly positive correlation matrices for all populations in the MCP datasets (data not shown). Having assessed the reproducibility of this approach, we reduced the number of markers for four populations (Neutrophils, Fibroblasts, Endothelial cells, B lineage) which had large (>90 markers) TM sets using information from the MCP validation series (Supplementary methods). We examined the correlation patterns of these final TM sets in 9408, 3548 and 6451 tumor transcriptomic samples (data not shown) obtained respectively using 'Affymetrix_HGU_133_Plus_2.0', 'Affymetrix_133A' and Illumina_HiSeq transcriptomic platforms (Supplementary Tables S7-S9). We observed largely positive-valued correlation matrices for all MCP in the three tumor datasets, both in pan-cancer (data not shown) and single-cancer (data not shown) datasets.

Quantitative validation of MCP-counter abundance estimates

We quantitatively validated the MCP-counter method. For this purpose, we designed an in-vitro RNA mixture experiment (data not shown). Immune populations were purified from healthy donors' peripheral blood; their RNAs were extracted and mixed in highly variable concentrations (from 0.7 to 46% of the sample's RNA). The RNA proportions of the populations were arranged in two transposed latin squares to avoid collinearity and thus ensure specificity (data not shown). The mixtures were further diluted in a fixed amount of a solution containing mRNA extracted from HCT-116, a colorectal cancer cell line. Transcriptome analyses revealed that MCP-counter scores were highly correlated with the cells' proportions in the mixtures (data not shown), with Pearson's correlation coefficients ranging from 0.94 to 0.99. In addition, immunohistochemical (IHC) digital quantifications of CD3+, CD8α+ and CD68+ cell densities were performed on tissue sections from 38 colorectal-cancer tumors. The IHC-measured densities of each cell population was found to correlate with the corresponding MCP-counter score (data not shown).

Finally, we assessed the limit of detection of the technique for each cell population using non-hematopoietic control samples. For each assayed population, we observed a limit of detection below 2% (depending on the population, from 1/950 to 1/50 of the sample's total RNA) (data not shown). Altogether, these results validate the use of the MCP-counter method to directly compare the abundance of the corresponding cell population across transcriptomic samples.

Comparison of MCP-counter with previously-published methods

MCP-counter differs from methods such as CIBERSORT, which aims to measure intra-sample, within leukocytes, proportions of immune cell populations, while MCP-counter outputs an abundance estimate per cell population that enables an inter-sample comparison, at the cost of being expressed in arbitrary units. To illustrate these differences, we simulated mRNA mixtures where the within-leukocytes proportion of five immune cell populations was kept constant and equal, while the proportions of tumor cells varied (Figure 4a). In this setting, only MCP-counter was able to accurately reflect the difference in immune cells' abundances across simulated mixtures, while CIBERSORT (accurately) estimated stable proportions of each immune cell populations within the leukocytic fraction of the simulated mixtures.

To compare the robustness of TM sets used in MCP-counter and those identified in previously-published methods, we computed metagene scores on the three MCP series with TM sets reported by Bindea et al. or by Yoshihara et al.. We show that TM sets used in MCP-counter are better at discriminating between positive and negative MCP samples (Figure 4b). Notably, MCP-counter scores achieved high specificity and sentivity for each of the corresponding cell populations, while some TM sets from other methods were sometimes highly expressed in negative samples (for instance, the 'T cells' TM set from Bindea et al. was highly expressed in NK cells) (data not shown).

Analysis of the microenvironment of normal and cancer tissues

We applied MCP-counter to a first dataset of 505 samples spanning 47 non-pathological anatomical locations[14]. Lymphoid organs (Spleen, lymph nodes, tonsils, bone marrow) were, as expected, found to harbor a high number of immune cells, while the thymus featured the highest MCP-counter score for CD3+ T cells (data not shown). On the other hand, known "immune sanctuaries" such as testes were correctly found to feature little abundance of immune cells.

Tumor immunology is one of the natural applications of MCP-counter. We estimated the abundance of immune and non-immune cell populations in 19,407 samples spanning 32 non-hematopoietic human tumors, thus proposing a global analysis of non-malignant cell populations' abundances across human cancers (data not shown). The MCP-scores obtained from the three underlying transcriptome platforms ('Affymetrix_HGU_133_Plus_2.0', 'Affymetrix_133A' and Illumina HiSeq) yielded reproducible patterns across cancer types (data not shown) and were thus averaged to produce a synthetic view (data not shown). We observed that kidney clear-cell carcinoma had the highest abundance of endothelial cells of all cancers, while uveal melanomas, which occur in the eye, an immune sanctuary, are poorly infiltrated by immune cells. Colorectal cancer samples were average in terms of immune cells abundance. Gliomas and glioblastomas appeared poorly-infiltrated by T cells. The often viralinduced cervical squamous carcinoma is highly infiltrated by cytotoxic T and NK cells, but poorly by cells of monocytic origin.

Prognostic value associated with MCP-counter estimates

The three tumor series included respectively 2631, 1615 and 6047 Overall-Survival (OS)-annotated samples. We additionally curated 1591 tumor transcriptomes with OS annotations obtained using other transcriptomic platforms (data not shown). By performing a meta-analysis of univariate Cox models adjusted on each independent study, we assessed the correlation between the abundance of each microenvironment cell population, as estimated by MCP-scores, and OS within cancer types (data not shown). Although this univariate analysis was not adjusted for variables potentially influencing OS, such as tumor stage or treatments received, it nonetheless appeared consistent with published literature, notably revealing an overall favorable prognosis associated with infiltration by T cells, except in kidney clear-cell carcinoma as previously reported and in low grade glioma. Fibroblasts were mostly associated with poor outcome.

To assess whether MCP-counter was relevant to identify tumor subgroups based on their relative infiltration by multiple cell populations, we attempted to reproduce previously-reported prognostic classifications. In lung non-small cell adenocarcinoma, it was recently reported that infiltration by B or T cells independently predict favorable prognosis. In colorectal cancer, extensive literature exists about the protective role of a high infiltration by T cells, while fibroblasts were reported to be associated with poor outcome. In breast cancer, a stratification relying on cytotoxic T cells (associated with favorable outcome) and macrophages (poor outcome) was proposed. Using MCP-counter, we were able to reproduce these clinically-relevant patterns (data not shown).

Discussion

Tissue-infiltrating immune and non-immune stromal cells contribute to the measured signal in gene expression experiments. Retrieving this information can yield estimates of the abundance of tissue-infiltrating cells, illustrated herein in cancer samples. To harness this information, we developed the Microenvironment Cell Population (MCP)-counter method, implemented in an easy-to-use R package.

It produces a score for each of 10 distinct MCP. We validated that these scores are accurate abundance estimates in three different settings: a) transcriptomic profiles of 4804 validation MCP samples, in which MCP-counter score separated ‘positive’ and ‘negative’ samples (relative to each of the 10 cell populations) with high specificity and sensitivity, b) in an in-vitro RNA mixture setting, where we showed that MCP-counter scores corresponding to the cell populations from which RNA were extracted highly correlated (Pearson's correlation coefficients ranging from 0.94 to 0.99) with the RNA fraction of the corresponding cell population in the mixture, and c) in an ex-vivo setting where we showed that MCP-counter estimates correlated with IHC measurements of the corresponding cells' densities. Using the in-vitro setting, we showed that MCP-counter's lower limit of detection for a population was below 2% of the sample's total RNA proportion when using 'Affymetrix_HGU_133_Plus_2.0' microarrays. This limit of detection might be lowered by using more sensitive gene expression techniques, such as rt-qPCR, Nanostring, or RNA-sequencing assays.

Other techniques to quantitatively characterize the cellular composition of a heterogeneous tissue notably include flow cytometry and enzymatic IHC. MCP-counter estimates are conceptually close to IHC-estimated cell densities (number of cells per surface unit on a tissue section), as the produced estimates can be used to compare the abundance of the corresponding cell populations across samples. However, unlike IHC, MCP-counter enables the simultaneous quantification of 10 cell populations with a single gene-expression experiment, while IHC quantifications are usually limited to a couple of markers. The information of the cells' spatial localization, which is available in IHC experiments, is however lost when using transcriptomic technologies.

MCP-counter is more sensitive and specific in the interpretation of its scores than other previously-published TM-based methods, through a rigorous, unbiased and conservative approach to define the TM sets on which it is based (data not shown). These methods were also limited to only two populations, or were not quantitatively validated. It conceptually differs from flow cytometry (FC) experiments or FC-inspired computational methods such as CIBERSORT, which aim at describing the relative proportions of various cell populations within a single sample (data not shown). In contrast, MCP-counter is specifically designed to compare the absolute abundance of a given cell population across multiple samples.

MCP-counter scores linearly correlate with the corresponding cell population's abundances across samples, but are expressed in arbitrary units. These arbitrary units are dependent on the gene expression platform used to produce the data and one can only compare samples produced with the same gene expression platforms. Nonetheless, we showed that the relative cellular abundance across three large tumor datasets, totaling more than 19,000 tumors, and obtained with three different gene expression platform, are largely consistent (data not shown), legitimating the use of MCP-counter to assess which samples are most or least infiltrated by each characterized cell population.

We illustrated the use of MCP-counter on non-diseased human tissues where we observed abundance estimates consistent with known immunological status of the samples. We applied MCP-counter to describe the average MCP cellular abundances in 32 non-hematopoietic human malignancies. This analysis confirmed the very high vascularization of clear-cell renal-cell carcinoma, and showed that cervical squamous cell carcinoma tumors, which are often virally-induced, are highly infiltrated by T lymphocytes, and notably cytotoxic T cells, but only moderately by other immune subsets.

MCP-counter is most relevant to stratify a cohort of similar samples based on the composition of their immune and stromal microenvironments, or to follow the composition of the microenvironment over time. The use of MCP-counter confirmed that significant univariate association between OS and tumor infiltration by cytotoxic lymphocytes were mostly positive. In contrast, significant associations between prognosis and extensive abundance of non-immune stromal cell populations, and notably fibroblasts, are shown mostly negative using MCP-counter. These observations, largely consistent with published literature, validate the use of MCP-counter to assess the prognostic value of MCP in other cohorts of patients.

MCP-counter complements IHC approaches in that it enables the analysis of 10 cell populations using a single gene expression experiment. We notably illustrated its use to separately classify lung adenocarcinoma, colorectal, and breast tumors into microenvironment-defined subgroups. In this setting, we were able to confirm the prognostic impact of three previously-published microenvironment-based tumor classifications. These results suggest that MCP-counter may enable the identification of new multi-markers microenvironmental stratifications.

MCP-counter relies on TM which have been identified in a dataset containing GEP of cancer cell lines from 21 different anatomic locations among its negative controls, ensuring applicability in a wide range of samples. This large diversity of control samples may however discard TM which would be relevant in a specific setting: for instance, the screening procedure discarded NCAM1 (CD56), a widely-used marker of NK cells, as it is also expressed by nervous malignant cells, and is thus unsuitable to quantify NK cells in brain samples. The general framework that we developed herein could thus be tailored to identify additional TM for investigation in a more restricted set of organs.

MCP-counter can be incorporated in clinical routine to characterize immune infiltration in samples where IHC-based quantifications are impossible, such as for fine-needle aspiration biopsies. In this setting, samples are typically collected one at a time. To complement the current multi-sample use of MCP-counter, designed for exploratory analyses, one could notably settle on a desired gene expression platform and use a set of calibrating samples. For instance, in-vitro RNA mixtures described herein could help mapping MCP-counter abundance scores to non-arbitrary units, such as the percentage of the corresponding cells within a sample.

To our knowledge, MCP-counter is the first validated computational method that enables a robust quantification of the abundance of multiple immune and non-immune stromal populations in the transcriptome of cellularly-heterogeneous tissues such as normal or malignant tissues. It might be relevant in a clinical setting, as immune biomarkers can help predict patient's prognosis or response to therapies, most notably to immunotherapies. Its retrospective and prospective application to study inflammatory profiles through transcriptomics should help unraveling the role of immune and stromal populations in cancers and other diseases, and help decipher the interplay between these populations.

Table 1: Gene signatures for quantifying the population of cells of monocytic origin and others cells in a tissue sample.

Complete gene signatures were obtained based on the methodology described in EXAMPLE. In this example, it is shown that the complete signatures are able to predict corresponding cell types' proportions in a heterogeneous tissue.

Let S be a signature, composed of n probesets $f_{1\leq i\leq n}$.

9697 tumor transcriptomes from multiple cancer types were obtained from public repositories. Expression values for each probesets were mean-centered across samples (row centering). The expression values from probesets within S were then averaged to obtain a single representative value for each sample : $mean_{1\leq i\leq n}(f)$.

We then computed, for each combination f_{sub} of length from 1 and up to 10 probesets of S, the average expression $mean(f_{sub})$ for each sample.

We then correlated $mean(f_{sub})$ to $mean_{1\leq i\leq n}(f)$.

When available, we correlated the true-proportions of mRNA from the corresponding cell type in the *in-vitro* RNA-mixture validation model described in EXAMPLE to mean(f_{sub}).

Combinations were ranked according to their ability to correlate with *in-vitro* RNA proportions, if available or with their ability to correlate to the summarized expression of the complete set of marker.

Table 1: combination of genes

Combination of genes for identification of B cells

Nb Genes	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	r_metagene	r_melanges

3	MS4A1	CR2	BANK1	NA	NA	NA	NA	NA	NA	NA	0,93563326	0,99626798
4	MS4A1	CR2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,93326143	0,99534292
4	MS4A1	CD19	CR2	BANK1	NA	NA	NA	NA	NA	NA	0,9550717	0,9953207
2	MS4A1	BANK1	NA	NA	NA	NA	NA	NA	NA	NA	0,92281625	0,99530783
4	MS4A1	CR2	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	0,94797522	0,99481924
3	CR2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	NA	0,87288207	0,99406149
5	MS4A1	CD19	CR2	BANK1	PAX5	NA	NA	NA	NA	NA	0,95131115	0,99397741
2	CR2	BANK1	NA	NA	NA	NA	NA	NA	NA	NA	0,86624957	0,99388892
1	BANK1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,7391599	0,99384517
4	MS4A1	CR2	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,94452501	0,99363876
5	MS4A1	CR2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,94359934	0,99337142
1	MS4A1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,91226624	0,99333527
3	CR2	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	NA	0,89896886	0,99331135
3	MS4A1	CD19	BANK1	NA	NA	NA	NA	NA	NA	NA	0,95471648	0,99322704
5	MS4A1	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	0,94578471	0,99310143
5	MS4A1	CD19	CR2	FCRL2	BANK1	NA	NA	NA	NA	NA	0,9603499	0,99305263
3	MS4A1	BANK1	PAX5	NA	NA	NA	NA	NA	NA	NA	0,91796041	0,99280505
3	CD19	CR2	BANK1	NA	NA	NA	NA	NA	NA	NA	0,91829543	0,9924966
3	MS4A1	CR2	PAX5	NA	NA	NA	NA	NA	NA	NA	0,9062648	0,99249446
3	MS4A1	CR2	FCRL2	NA	NA	NA	NA	NA	NA	NA	0,93733292	0,99236082
5	MS4A1	CD19	CR2	BANK1	CD22	NA	NA	NA	NA	NA	0,95894958	0,99234037
5	MS4A1	CR2	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	0,95488479	0,99224518
4	CR2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,89269044	0,9922331
3	CR2	BANK1	CD22	NA	NA	NA	NA	NA	NA	NA	0,88419484	0,99205412
6	MS4A1	CD19	CR2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,9571508	0,99200751
3	MS4A1	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	NA	0,94298914	0,99183484
4	CD19	CR2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,9149227	0,99183066
6	MS4A1	CD19	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	NA	0,95795815	0,99168854
6	MS4A1	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,95399996	0,99154148

4	MS4A1	CR2	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,91790571	0,99142212
4	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,90135266	0,99131979
4	MS4A1	CD19	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,94661979	0,99113852
3	MS4A1	CR2	CD22	NA	NA	NA	NA	NA	NA	NA	0,92594051	0,99084195
6	MS4A1	CD19	CR2	FCRL2	BANK1	CD22	NA	NA	NA	NA	0,96384824	0,99078303
5	MS4A1	CR2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,96798904	0,99074951
3	MS4A1	BANK1	CD22	NA	NA	NA	NA	NA	NA	NA	0,93586662	0,99057309
4	CR2	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,91059616	0,9905674
4	MS4A1	CR2	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	0,92532405	0,99048103
4	CD19	CR2	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	0,92952112	0,990438
2	MS4A1	CR2	NA	NA	NA	NA	NA	NA	NA	NA	0,92135589	0,99041176
4	MS4A1	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,93365311	0,99039564
6	MS4A1	CD19	CR2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,97614328	0,99038639
4	MS4A1	CD19	CR2	PAX5	NA	NA	NA	NA	NA	NA	0,93265131	0,99031979
7	MS4A1	CD19	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	0,96293755	0,99027657
5	MS4A1	CD19	CR2	BANK1	IGKC	NA	NA	NA	NA	NA	0,96930951	0,99027205
5	CD19	CR2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,92394658	0,99015921
5	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,91540357	0,98998209
4	MS4A1	CR2	FCRL2	CD22	NA	NA	NA	NA	NA	NA	0,94066403	0,98995897
3	MS4A1	CD19	CR2	NA	NA	NA	NA	NA	NA	NA	0,94532322	0,98992465
2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	0,79184882	0,98992361
4	CD19	CR2	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,92261967	0,98989298
4	MS4A1	CR2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,95836094	0,98987365
4	MS4A1	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,93789227	0,98980658
4	MS4A1	CD19	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	0,96095618	0,98975014
5	MS4A1	CR2	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	0,93390717	0,98942868
5	CD19	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	0,92828861	0,98930985
4	MS4A1	CD19	CR2	FCRL2	NA	NA	NA	NA	NA	NA	0,9511751	0,98924644
5	MS4A1	CD19	CR2	PAX5	CD22	NA	NA	NA	NA	NA	0,93816482	0,98924072

4	CR2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,93855636	0,98912211
4	MS4A1	CD19	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,95822052	0,98909381
6	MS4A1	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,97367789	0,98907717
5	MS4A1	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	0,96534493	0,98897845
5	MS4A1	CD19	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,95412426	0,98897416
6	MS4A1	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,98019213	0,98884669
4	MS4A1	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,95194273	0,98881967
2	MS4A1	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	0,87197667	0,98864823
6	MS4A1	CD19	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	NA	0,97302681	0,98864191
4	MS4A1	CD19	CR2	CD22	NA	NA	NA	NA	NA	NA	0,9451123	0,98859083
3	CR2	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	0,82398562	0,98856023
7	MS4A1	CD19	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	0,97934183	0,98855111
5	CD19	CR2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,95495608	0,98846685
7	MS4A1	CD19	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,98507187	0,98843678
5	CD19	CR2	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	0,93351767	0,98842369
5	MS4A1	CD19	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	0,95574241	0,98838583
5	MS4A1	CD19	CR2	FCRL2	PAX5	NA	NA	NA	NA	NA	0,94235766	0,98836113
5	MS4A1	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,94937805	0,98836093
2	CD19	BANK1	NA	NA	NA	NA	NA	NA	NA	NA	0,89004555	0,98829046
6	CD19	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,93546846	0,98826137
2	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	NA	NA	0,84099684	0,9882253
3	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	0,83638655	0,9878484
2	MS4A1	FCRL2	NA	NA	NA	NA	NA	NA	NA	NA	0,93665178	0,98783606
4	MS4A1	CR2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,94861702	0,98772438
7	MS4A1	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,98425082	0,98769964
4	CD19	CR2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,9409771	0,98767821
6	MS4A1	CD19	CR2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,97945512	0,98767447
5	MS4A1	CD19	CR2	FCRL2	CD22	NA	NA	NA	NA	NA	0,95168985	0,98762994
5	MS4A1	CR2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,97273142	0,98761494

6	MS4A1	CD19	CR2	FCRL2	PAX5	CD22	NA	NA	NA	NA	0,94689658	0,98759884
5	MS4A1	CD19	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	0,96425538	0,98735291
8	MS4A1	CD19	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	0,98727506	0,98720099
5	MS4A1	CD19	CR2	IGKC	PAX5	NA	NA	NA	NA	NA	0,96077108	0,98718849
6	MS4A1	CD19	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,96184143	0,9871467
6	MS4A1	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,97760869	0,98712009
3	MS4A1	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	0,89237448	0,98711845
3	CR2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	NA	0,91707241	0,98707494
3	CD19	BANK1	PAX5	NA	NA	NA	NA	NA	NA	NA	0,8845682	0,9870749
2	BANK1	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,79792646	0,98704302
5	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,94944549	0,98702949
5	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,9575633	0,98700465
7	MS4A1	CD19	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	0,98195468	0,98678206
6	CD19	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,96793387	0,98640876
4	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,93202706	0,98639497
4	CR2	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,86704657	0,98639097
6	CD19	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,96090204	0,98631774
2	MS4A1	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,90971678	0,98620615
3	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	NA	0,85624311	0,98615995
5	MS4A1	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	0,95734596	0,9860997
3	CR2	FCRL2	CD22	NA	NA	NA	NA	NA	NA	NA	0,8655927	0,98606824
5	MS4A1	CR2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,96336206	0,98604253
2	CR2	FCRL2	NA	NA	NA	NA	NA	NA	NA	NA	0,86214574	0,98595174
5	CD19	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	0,94868775	0,98592479
2	MS4A1	CD19	NA	NA	NA	NA	NA	NA	NA	NA	0,94960466	0,9858662
5	MS4A1	CD19	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,96647529	0,98584596
3	CR2	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	NA	0,84809113	0,98576805
4	MS4A1	CD19	CR2	IGKC	NA	NA	NA	NA	NA	NA	0,95301933	0,98573656
6	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,96525917	0,9857326

4	CD19	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,90007337	0,98568803
2	CR2	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	0,79277849	0,98566369
4	MS4A1	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,95246454	0,98556824
4	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,88304022	0,98547845
6	MS4A1	CD19	CR2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,9711505	0,98547325
3	MS4A1	CD19	PAX5	NA	NA	NA	NA	NA	NA	NA	0,92005584	0,98545944
6	MS4A1	CD19	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	NA	0,96581706	0,98539803
3	MS4A1	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	NA	0,90706276	0,98534467
3	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	NA	NA	0,86683129	0,98534125
4	MS4A1	CR2	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	0,94766315	0,98513308
7	CD19	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,97208761	0,98510101
4	CD19	CR2	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,88159827	0,98505472
6	MS4A1	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,96982432	0,9850303
4	MS4A1	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,92003739	0,98491998
5	CD19	CR2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,95665677	0,98485672
2	CR2	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,81306738	0,98484643
3	MS4A1	FCRL2	CD22	NA	NA	NA	NA	NA	NA	NA	0,93482697	0,98483162
3	CD19	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	NA	0,91084648	0,98476827
5	MS4A1	CD19	CR2	FCRL2	IGKC	NA	NA	NA	NA	NA	0,95881036	0,98472749
4	CR2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,94127473	0,984724
4	MS4A1	CD19	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,92731117	0,984704
4	MS4A1	CD19	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,95419459	0,98462229
3	MS4A1	CR2	IGKC	NA	NA	NA	NA	NA	NA	NA	0,93693495	0,98461057
5	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,95164541	0,98456665
3	CD19	BANK1	CD22	NA	NA	NA	NA	NA	NA	NA	0,89473925	0,98452596
7	MS4A1	CD19	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	0,97487891	0,9843861
5	MS4A1	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,96206758	0,98437053
6	MS4A1	CD19	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,97888851	0,98432698
6	MS4A1	CD19	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,97178589	0,98430027

5	MS4A1	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,97023122	0,98429406
4	CD19	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,90897621	0,98425791
6	CD19	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,96196929	0,98415697
5	CD19	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,91998267	0,98388955
5	CD19	CR2	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	0,90222881	0,98384808
3	CR2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	NA	0,89931683	0,98368166
5	MS4A1	CR2	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	0,96229407	0,98365708
6	MS4A1	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,97698788	0,98357058
5	MS4A1	CD19	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	0,96107127	0,98356341
5	MS4A1	CD19	CR2	IGKC	CD22	NA	NA	NA	NA	NA	0,96486755	0,98354662
3	MS4A1	CD19	FCRL2	NA	NA	NA	NA	NA	NA	NA	0,95369624	0,98354153
7	MS4A1	CD19	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,98253411	0,98340134
4	CD19	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,91535662	0,98326758
4	MS4A1	CR2	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,9545773	0,98326295
6	MS4A1	CD19	CR2	FCRL2	IGKC	CD22	NA	NA	NA	NA	0,96903096	0,98325637
4	MS4A1	CD19	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	0,93485975	0,98320303
5	MS4A1	CD19	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	0,94034571	0,98316078
3	MS4A1	CD19	CD22	NA	NA	NA	NA	NA	NA	NA	0,94172605	0,98315805
4	MS4A1	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,94694587	0,98314638
3	CD19	CR2	PAX5	NA	NA	NA	NA	NA	NA	NA	0,87072221	0,98290259
3	MS4A1	BANK1	IGKC	NA	NA	NA	NA	NA	NA	NA	0,93391049	0,98286657
4	CD19	CR2	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	0,89439966	0,98286129
4	CD19	CR2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,92664517	0,98282004
6	MS4A1	CD19	CD79A	CR2	BANK1	PAX5	NA	NA	NA	NA	0,96695517	0,98275563
5	MS4A1	CD19	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,96908174	0,9825981
4	CR2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,92481613	0,98252549
4	CD19	CR2	FCRL2	CD22	NA	NA	NA	NA	NA	NA	0,90360172	0,98252071
4	MS4A1	CD19	FCRL2	CD22	NA	NA	NA	NA	NA	NA	0,94990986	0,9824086
6	MS4A1	CD19	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,973755	0,98227573

5	MS4A1	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,96524212	0,98209551
4	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,91809393	0,98206113
7	MS4A1	CD19	CD79A	CR2	BANK1	PAX5	CD22	NA	NA	NA	0,97169449	0,98205935
5	CD19	CR2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,94311014	0,98174925
7	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	0,96974089	0,98172364
4	MS4A1	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,95620009	0,98171334
5	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,93852849	0,98169936
4	CD19	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,92981205	0,98166161
8	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	0,9740553	0,98139656
5	MS4A1	CD79A	CR2	BANK1	PAX5	NA	NA	NA	NA	NA	0,95915221	0,98136485
6	MS4A1	CD79A	CR2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,966518	0,98128874
3	CD19	CR2	CD22	NA	NA	NA	NA	NA	NA	NA	0,88473797	0,98126912
5	CD19	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	0,93701638	0,98121322
5	MS4A1	CD19	CD79A	CR2	BANK1	NA	NA	NA	NA	NA	0,96903417	0,98111856
3	CD19	CR2	FCRL2	NA	NA	NA	NA	NA	NA	NA	0,90631527	0,98104223
3	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	NA	NA	0,89725776	0,98098966
7	MS4A1	CD79A	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	0,97100663	0,98097514
6	MS4A1	CD79A	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	NA	0,96467057	0,98095127
6	CD19	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,95080332	0,98092806
5	CD19	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,95004811	0,98068731
2	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,66715922	0,98066017
6	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	NA	NA	NA	NA	0,97045527	0,98059006
4	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,92887121	0,98048437
5	CD19	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,9413525	0,98031944
6	MS4A1	CD19	CD79A	CR2	BANK1	CD22	NA	NA	NA	NA	0,97262371	0,98026497
4	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,91896451	0,98017742
7	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	CD22	NA	NA	NA	0,97395376	0,98011868
5	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,94407234	0,98011372
6	CD19	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,95811598	0,98003583

4	MS4A1	CD19	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,94318027	0,98003574
5	MS4A1	CD19	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,95854665	0,97954565
4	MS4A1	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,94380945	0,97927855
5	MS4A1	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,95531605	0,97925659
6	MS4A1	CD79A	CR2	FCRL2	BANK1	CD22	NA	NA	NA	NA	0,97160337	0,97921314
5	MS4A1	CD19	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	0,95205318	0,97918206
6	MS4A1	CD19	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,96502514	0,97918094
3	MS4A1	IGKC	PAX5	NA	NA	NA	NA	NA	NA	NA	0,92070233	0,97913025
3	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	0,78166002	0,97905618
5	MS4A1	CD79A	CR2	FCRL2	BANK1	NA	NA	NA	NA	NA	0,9660653	0,97905604
4	MS4A1	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,93653115	0,97899145
3	CR2	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	NA	0,89343488	0,97894926
4	CR2	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,91971045	0,97880719
4	CD19	CR2	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	0,92092762	0,97877418
5	MS4A1	CD79A	CR2	BANK1	CD22	NA	NA	NA	NA	NA	0,9681436	0,97854414
5	CD19	CR2	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	0,93764622	0,97849641
6	CD19	CD79A	CR2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,95127079	0,97828268
5	CD19	CD79A	CR2	BANK1	PAX5	NA	NA	NA	NA	NA	0,94504848	0,97818186
4	CD19	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,91795311	0,97815532
3	CD19	BANK1	IGKC	NA	NA	NA	NA	NA	NA	NA	0,90100089	0,97804456
4	MS4A1	CD79A	CR2	BANK1	NA	NA	NA	NA	NA	NA	0,96186986	0,97803321
7	CD19	CD79A	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	0,95566884	0,97794305
3	CD19	CR2	IGKC	NA	NA	NA	NA	NA	NA	NA	0,90732523	0,97782841
5	CD19	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,93936416	0,97780132
9	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	0,98671507	0,97778275
8	MS4A1	CD19	CD79A	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	0,98534791	0,97767455
8	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	0,97940489	0,9776293
7	MS4A1	CD19	CD79A	CR2	BANK1	IGKC	PAX5	NA	NA	NA	0,97726667	0,97758106
6	CD19	CD79A	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	NA	0,95009381	0,97754956

4	CD19	CR2	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,92778329	0,97751791
4	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,91641146	0,97724451
6	CD79A	CR2	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,9485502	0,97721888
4	CD19	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,92759362	0,97717095
5	CD79A	CR2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,93988497	0,97701512
3	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	NA	0,88253236	0,97698073
6	MS4A1	CD19	CD79A	CR2	PAX5	CD22	NA	NA	NA	NA	0,95629669	0,97696982
3	CD19	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	0,8187019	0,97695123
7	MS4A1	CD19	CD79A	CR2	FCRL2	PAX5	CD22	NA	NA	NA	0,96027221	0,97694566
4	CD19	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,86259045	0,97687255
8	MS4A1	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	0,98507623	0,97679198
5	MS4A1	CD19	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	0,95410459	0,9766764
4	MS4A1	CD19	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	0,93852251	0,97658303
3	CR2	IGKC	CD22	NA	NA	NA	NA	NA	NA	NA	0,90084353	0,97650179
5	MS4A1	CD19	CD79A	CR2	PAX5	NA	NA	NA	NA	NA	0,95172964	0,97629875
6	MS4A1	CD19	CD79A	CR2	FCRL2	PAX5	NA	NA	NA	NA	0,95612126	0,97620897
7	MS4A1	CD79A	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,98252299	0,97619048
5	CD79A	CR2	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	0,93946147	0,97619012
7	MS4A1	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	0,97571901	0,97618297
2	FCRL2	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,74212781	0,97617417
7	MS4A1	CD19	CD79A	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	0,97391176	0,97615119
6	MS4A1	CD79A	CR2	FCRL2	PAX5	CD22	NA	NA	NA	NA	0,95532684	0,97613424
4	MS4A1	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,93988517	0,97606642
6	MS4A1	CD19	CD79A	BANK1	PAX5	CD22	NA	NA	NA	NA	0,97107887	0,97602441
4	CD79A	CR2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,92872989	0,97573149
6	CD19	CD79A	CR2	FCRL2	BANK1	CD22	NA	NA	NA	NA	0,9536605	0,97564217
8	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	0,98068003	0,97563609
5	MS4A1	CD79A	CR2	PAX5	CD22	NA	NA	NA	NA	NA	0,94817273	0,9755111
4	MS4A1	CD19	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,94586319	0,97546455

6	MS4A1	CD19	CD79A	FCRL2	BANK1	PAX5	NA	NA	NA	NA	0,96860583	0,975427
6	MS4A1	CD79A	CR2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,97197232	0,97534228
5	MS4A1	CD19	CD79A	BANK1	PAX5	NA	NA	NA	NA	NA	0,96512853	0,97532057
3	MS4A1	CD19	IGKC	NA	NA	NA	NA	NA	NA	NA	0,92699652	0,97532005
3	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	NA	NA	0,89310271	0,97528639
7	MS4A1	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	0,97244881	0,97523829
3	MS4A1	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	NA	0,91615027	0,97522226
2	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	0,72943062	0,97511138
6	MS4A1	CD79A	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,97007996	0,9750289
5	CD19	CD79A	CR2	FCRL2	BANK1	NA	NA	NA	NA	NA	0,94972197	0,97502351
5	CD19	CD79A	CR2	BANK1	CD22	NA	NA	NA	NA	NA	0,95087491	0,97494793
7	MS4A1	CD19	CD79A	CR2	BANK1	IGKC	CD22	NA	NA	NA	0,9790282	0,9747407
5	MS4A1	CD79A	CR2	FCRL2	PAX5	NA	NA	NA	NA	NA	0,94882001	0,97465164
4	CD19	CD79A	CR2	BANK1	NA	NA	NA	NA	NA	NA	0,94728838	0,97434564
6	MS4A1	CD19	CD79A	CR2	FCRL2	CD22	NA	NA	NA	NA	0,96218803	0,97434051
5	MS4A1	CD79A	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,96399178	0,9742211
6	MS4A1	CD19	CD79A	CR2	BANK1	IGKC	NA	NA	NA	NA	0,96985889	0,97415347
8	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	0,97288041	0,97412091
5	CD79A	CR2	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	0,94710864	0,97408636
7	MS4A1	CD79A	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	0,97793601	0,97398602
2	CR2	IGKC	NA	NA	NA	NA	NA	NA	NA	NA	0,86681086	0,97394642
2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	NA	NA	0,84885578	0,9737535
6	MS4A1	CD19	CD79A	FCRL2	BANK1	CD22	NA	NA	NA	NA	0,9739847	0,9736447
5	MS4A1	CD79A	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	0,96167674	0,97355679
7	CD19	CD79A	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,97021925	0,97349447
5	CD19	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,92425149	0,97343512
4	MS4A1	CD79A	CR2	PAX5	NA	NA	NA	NA	NA	NA	0,94038371	0,9733746
3	MS4A1	IGKC	CD22	NA	NA	NA	NA	NA	NA	NA	0,92431357	0,97326718
7	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	0,96292453	0,97323663

5	MS4A1	CD19	CD79A	CR2	FCRL2	NA	NA	NA	NA	NA	0,96005737	0,97317365
3	CD19	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	NA	0,84704201	0,97309499
4	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,89755162	0,97309259
1	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,55670562	0,97308261
8	MS4A1	CD19	CD79A	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	0,97429393	0,97308215
5	MS4A1	CD19	CD79A	CR2	CD22	NA	NA	NA	NA	NA	0,96007687	0,97307024
3	CD19	FCRL2	CD22	NA	NA	NA	NA	NA	NA	NA	0,85860543	0,97300676
6	MS4A1	CD79A	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	NA	0,9671637	0,97278351
7	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,96872754	0,97268061
5	MS4A1	CD79A	CR2	FCRL2	CD22	NA	NA	NA	NA	NA	0,95931106	0,97260058
5	MS4A1	CD19	CD79A	FCRL2	BANK1	NA	NA	NA	NA	NA	0,96992168	0,97253764
4	CD19	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,90854879	0,97252836
6	CD19	CD79A	CR2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,95895989	0,97245996
5	MS4A1	CD19	CD79A	BANK1	CD22	NA	NA	NA	NA	NA	0,97279629	0,97243255
8	MS4A1	CD19	CD79A	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	0,98136312	0,9723154
1	CD22	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,49124845	0,97228258
4	CD79A	CR2	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	0,9398039	0,97217371
4	MS4A1	CD79A	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,95377549	0,97215688
7	MS4A1	CD19	CD79A	CR2	IGKC	PAX5	CD22	NA	NA	NA	0,97168222	0,97214909
6	MS4A1	CD79A	CR2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,97477367	0,9721214
4	CD79A	CR2	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,93992666	0,97191919
7	MS4A1	CD19	CD79A	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	0,96594349	0,97188759
5	MS4A1	CD79A	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	0,97131136	0,97161625
1	FCRL2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,74508284	0,97158098
7	MS4A1	CD79A	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	0,97100347	0,97152032
3	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	0,86829048	0,97141972
4	MS4A1	CD19	CD79A	CR2	NA	NA	NA	NA	NA	NA	0,95842652	0,9713712
4	CD19	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,90177063	0,97134167
6	CD19	CD79A	CR2	FCRL2	PAX5	CD22	NA	NA	NA	NA	0,93053719	0,97130274

7	MS4A1	CD19	CD79A	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,97890412	0,97130237
6	CD79A	CR2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,96394968	0,97129264
7	MS4A1	CD19	CD79A	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	0,97170296	0,97108718
6	CD79A	CR2	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,95540805	0,97103888
4	MS4A1	CD19	CD79A	BANK1	NA	NA	NA	NA	NA	NA	0,96874678	0,97091887
6	CD19	CD79A	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	0,94720138	0,9708394
7	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	0,96253043	0,97083217
6	MS4A1	CD19	CD79A	CR2	IGKC	PAX5	NA	NA	NA	NA	0,96232531	0,97061993
7	MS4A1	CD79A	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,97785227	0,97058695
5	CD19	CD79A	CR2	PAX5	CD22	NA	NA	NA	NA	NA	0,92181348	0,97015069
2	CD19	CR2	NA	NA	NA	NA	NA	NA	NA	NA	0,89180868	0,97014801
2	CD19	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	0,79165949	0,97012304
3	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	NA	0,86181803	0,97006497
5	MS4A1	CD79A	CR2	BANK1	IGKC	NA	NA	NA	NA	NA	0,96249088	0,97001551
4	MS4A1	CD79A	CR2	FCRL2	NA	NA	NA	NA	NA	NA	0,95546463	0,96987568
3	CD19	IGKC	PAX5	NA	NA	NA	NA	NA	NA	NA	0,88029201	0,96987253
2	MS4A1	IGKC	NA	NA	NA	NA	NA	NA	NA	NA	0,89417939	0,96984535
5	CD79A	CR2	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	0,91699959	0,96973209
6	MS4A1	CD19	CD79A	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,96800436	0,96972953
6	MS4A1	CD79A	CR2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,96664528	0,96972295
5	CD19	CD79A	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,94019805	0,96967196
4	MS4A1	CD79A	CR2	CD22	NA	NA	NA	NA	NA	NA	0,95441585	0,96956861
6	MS4A1	CD19	CD79A	FCRL2	PAX5	CD22	NA	NA	NA	NA	0,95575629	0,96956853
7	MS4A1	CD19	CD79A	CR2	FCRL2	IGKC	CD22	NA	NA	NA	0,96728341	0,96947444
6	MS4A1	CD79A	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	NA	0,96005782	0,96946621
6	CD19	CD79A	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	NA	0,95081491	0,96924026
4	MS4A1	CD79A	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	0,96411787	0,96908191
5	CD79A	FCRL2	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	0,9349252	0,96892933
5	CD79A	CR2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,94847687	0,96892383

7	MS4A1	CD19	CD79A	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	0,97205676	0,96888691
4	MS4A1	CD79A	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,96690309	0,96883976
6	CD19	CD79A	CR2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,95895669	0,9688355
6	MS4A1	CD79A	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,97344244	0,96874823
5	CD19	CD79A	CR2	FCRL2	PAX5	NA	NA	NA	NA	NA	0,92455066	0,96854853
6	MS4A1	CD79A	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,96509234	0,96853511
5	CD19	CD79A	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	0,93920754	0,96845593
6	CD79A	CR2	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,95576899	0,96833643
3	CD79A	CR2	BANK1	NA	NA	NA	NA	NA	NA	NA	0,93161313	0,96812098
4	CD19	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,89648348	0,96809997
2	CD19	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,80950487	0,96805325
5	MS4A1	CD19	CD79A	PAX5	CD22	NA	NA	NA	NA	NA	0,95018765	0,96792573
5	MS4A1	CD79A	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	0,94844566	0,96749048
7	CD19	CD79A	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	0,95298142	0,96748392
6	MS4A1	CD19	CD79A	CR2	FCRL2	IGKC	NA	NA	NA	NA	0,95781313	0,96738437
4	CD79A	CR2	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,90029962	0,96728417
7	CD19	CD79A	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	0,95993342	0,96697427
6	MS4A1	CD19	CD79A	CR2	IGKC	CD22	NA	NA	NA	NA	0,96421671	0,9669454
6	MS4A1	CD19	CD79A	FCRL2	BANK1	IGKC	NA	NA	NA	NA	0,96075536	0,96686648
6	MS4A1	CD79A	CR2	FCRL2	IGKC	CD22	NA	NA	NA	NA	0,96252164	0,96675139
5	MS4A1	CD19	CD79A	FCRL2	PAX5	NA	NA	NA	NA	NA	0,95046498	0,96664793
5	MS4A1	CD79A	CR2	IGKC	PAX5	NA	NA	NA	NA	NA	0,95408652	0,96663479
4	CD19	CD79A	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,93080338	0,96656002
6	MS4A1	CD19	CD79A	BANK1	IGKC	CD22	NA	NA	NA	NA	0,96874913	0,96650951
4	CD79A	BANK1	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,91934165	0,96649097
4	CD19	CD79A	CR2	PAX5	NA	NA	NA	NA	NA	NA	0,91497037	0,96643706
5	CD19	CD79A	CR2	BANK1	IGKC	NA	NA	NA	NA	NA	0,94553432	0,96641746
5	CD19	CD79A	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	0,94270097	0,96633461
2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	0,82114181	0,9663097

5	CD19	CD79A	CR2	FCRL2	CD22	NA	NA	NA	NA	NA	0,92981325	0,96630389
6	MS4A1	CD79A	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,96623323	0,96609579
3	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	NA	NA	0,85302786	0,96605271
2	CD19	FCRL2	NA	NA	NA	NA	NA	NA	NA	NA	0,87512244	0,9660193
5	MS4A1	CD79A	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,95870064	0,96576482
7	MS4A1	CD19	CD79A	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	0,96433433	0,96566981
4	CD79A	CR2	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	0,90618535	0,96528207
6	CD19	CD79A	CR2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,94768795	0,9652759
5	CD79A	CR2	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	0,93960271	0,96527281
6	CD79A	CR2	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,94486592	0,96501847
4	CD79A	FCRL2	BANK1	PAX5	NA	NA	NA	NA	NA	NA	0,92016058	0,96501619
6	CD19	CD79A	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,95456375	0,964815
5	CD79A	CR2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,94922608	0,96468916
6	CD19	CD79A	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	NA	0,94089451	0,96459409
5	MS4A1	CD19	CD79A	FCRL2	CD22	NA	NA	NA	NA	NA	0,95862731	0,96457489
6	CD79A	FCRL2	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	0,95090436	0,96437618
4	MS4A1	CD79A	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,93733797	0,96437425
6	CD19	CD79A	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	0,94569477	0,96426477
3	MS4A1	CD79A	BANK1	NA	NA	NA	NA	NA	NA	NA	0,95845726	0,96411196
4	MS4A1	CD19	CD79A	PAX5	NA	NA	NA	NA	NA	NA	0,94418505	0,963839
3	MS4A1	CD79A	CR2	NA	NA	NA	NA	NA	NA	NA	0,95047375	0,96374817
3	CD19	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	NA	0,86642719	0,96365921
5	MS4A1	CD19	CD79A	CR2	IGKC	NA	NA	NA	NA	NA	0,95350448	0,96361397
5	MS4A1	CD19	CD79A	BANK1	IGKC	NA	NA	NA	NA	NA	0,955841	0,96344972
6	MS4A1	CD19	CD79A	IGKC	PAX5	CD22	NA	NA	NA	NA	0,95967772	0,96306329
5	MS4A1	CD79A	CR2	FCRL2	IGKC	NA	NA	NA	NA	NA	0,94976617	0,9629642
6	MS4A1	CD79A	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,95763319	0,96287314
3	CD19	IGKC	CD22	NA	NA	NA	NA	NA	NA	NA	0,87319211	0,96281525
4	MS4A1	CD79A	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	0,93924174	0,96281185

4	CD79A	CR2	FCRL2	CD22	NA	NA	NA	NA	NA	NA	0,91862521	0,96277307
4	CD19	CD79A	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,93785151	0,96274173
4	CD79A	FCRL2	BANK1	CD22	NA	NA	NA	NA	NA	NA	0,92981775	0,96267336
5	MS4A1	CD79A	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	0,9508874	0,96257034
6	MS4A1	CD19	CD79A	FCRL2	IGKC	PAX5	NA	NA	NA	NA	0,95280004	0,96249251
5	MS4A1	CD79A	CR2	IGKC	CD22	NA	NA	NA	NA	NA	0,95720343	0,96233033
4	CD19	CD79A	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	0,93711341	0,96230814
5	MS4A1	CD79A	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,96022713	0,96207872
4	CD19	CD79A	CR2	CD22	NA	NA	NA	NA	NA	NA	0,92397341	0,96197831
6	CD19	CD79A	CR2	FCRL2	IGKC	CD22	NA	NA	NA	NA	0,93960472	0,96159795
6	CD19	CD79A	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	0,94253209	0,96159362
4	CD19	CD79A	CR2	FCRL2	NA	NA	NA	NA	NA	NA	0,92823933	0,96132356
5	CD79A	CR2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,93603227	0,96126822
5	CD19	CD79A	CR2	IGKC	PAX5	NA	NA	NA	NA	NA	0,9337243	0,96115513
5	CD19	CD79A	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,93796735	0,96104149
5	CD79A	BANK1	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,94144229	0,96081423
4	MS4A1	CD79A	FCRL2	CD22	NA	NA	NA	NA	NA	NA	0,95508562	0,96053954
5	CD19	CD79A	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	0,90773872	0,96051076
5	CD79A	CR2	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	0,92814666	0,96048179
3	CD79A	BANK1	PAX5	NA	NA	NA	NA	NA	NA	NA	0,89934544	0,96023416
5	CD79A	FCRL2	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	0,93100971	0,9601859
4	MS4A1	CD19	CD79A	CD22	NA	NA	NA	NA	NA	NA	0,95626558	0,96002015
6	MS4A1	CD19	CD79A	FCRL2	IGKC	CD22	NA	NA	NA	NA	0,95264669	0,95981001
3	CD79A	CR2	PAX5	NA	NA	NA	NA	NA	NA	NA	0,88600241	0,95968698
4	MS4A1	CD19	CD79A	FCRL2	NA	NA	NA	NA	NA	NA	0,9568748	0,95957529
4	CD79A	CR2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,9300985	0,95918669
5	MS4A1	CD79A	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,94987129	0,95868499
5	MS4A1	CD19	CD79A	IGKC	PAX5	NA	NA	NA	NA	NA	0,94641501	0,95849152
2	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	NA	NA	0,8017488	0,95810302

5	MS4A1	CD79A	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	0,94193109	0,95802889
6	CD19	CD79A	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	0,93014867	0,95723021
5	CD79A	FCRL2	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,92752808	0,95716729
5	CD79A	CR2	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	0,92739378	0,95702276
5	CD19	CD79A	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	0,92484191	0,95698851
5	CD19	CD79A	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	0,93460988	0,9568771
3	MS4A1	CD79A	PAX5	NA	NA	NA	NA	NA	NA	NA	0,92549158	0,95649481
4	CD79A	FCRL2	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,87924174	0,95648687
5	CD19	CD79A	CR2	FCRL2	IGKC	NA	NA	NA	NA	NA	0,92509771	0,95636047
5	CD19	CD79A	CR2	IGKC	CD22	NA	NA	NA	NA	NA	0,93265817	0,956217
4	MS4A1	CD79A	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,94220342	0,95605219
2	IGKC	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,80634342	0,95594253
3	CD19	CD79A	BANK1	NA	NA	NA	NA	NA	NA	NA	0,93305792	0,95591415
4	CD19	CD79A	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,89086699	0,95571302
3	CD79A	BANK1	CD22	NA	NA	NA	NA	NA	NA	NA	0,91487251	0,95566576
4	MS4A1	CD79A	CR2	IGKC	NA	NA	NA	NA	NA	NA	0,94235709	0,95531016
3	CD79A	FCRL2	BANK1	NA	NA	NA	NA	NA	NA	NA	0,91711174	0,95519691
5	MS4A1	CD79A	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	0,94248612	0,95499586
5	MS4A1	CD19	CD79A	FCRL2	IGKC	NA	NA	NA	NA	NA	0,93891904	0,95438797
4	CD79A	BANK1	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,91749719	0,95426132
5	MS4A1	CD19	CD79A	IGKC	CD22	NA	NA	NA	NA	NA	0,94655998	0,95426123
3	CD79A	CR2	CD22	NA	NA	NA	NA	NA	NA	NA	0,90521944	0,95409317
4	CD79A	CR2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,91608093	0,95380675
3	CD79A	CR2	FCRL2	NA	NA	NA	NA	NA	NA	NA	0,91479532	0,95336818
4	CD19	CD79A	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	0,8974084	0,95301774
5	CD79A	FCRL2	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,91275391	0,95263552
3	CD19	CD79A	CR2	NA	NA	NA	NA	NA	NA	NA	0,92464784	0,95246193
2	CD19	IGKC	NA	NA	NA	NA	NA	NA	NA	NA	0,83388936	0,95198197
3	MS4A1	CD79A	CD22	NA	NA	NA	NA	NA	NA	NA	0,94821999	0,9519337

5	CD19	CD79A	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	0,91958419	0,95189769
3	MS4A1	CD79A	FCRL2	NA	NA	NA	NA	NA	NA	NA	0,95112497	0,95144854
3	MS4A1	CD19	CD79A	NA	NA	NA	NA	NA	NA	NA	0,95592077	0,95093265
4	MS4A1	CD79A	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,93129778	0,95089188
5	CD19	CD79A	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	0,91174455	0,95062975
4	CD19	CD79A	FCRL2	CD22	NA	NA	NA	NA	NA	NA	0,90173912	0,95059051
4	CD79A	FCRL2	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,90184624	0,94953493
4	CD79A	BANK1	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,91325141	0,94934749
4	CD19	CD79A	BANK1	IGKC	NA	NA	NA	NA	NA	NA	0,91357035	0,94926208
3	CD79A	PAX5	CD22	NA	NA	NA	NA	NA	NA	NA	0,84157134	0,94811484
4	CD79A	CR2	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	0,90652648	0,94804069
4	CD79A	CR2	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,91532533	0,94776953
5	CD19	CD79A	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	0,90567888	0,94729674
4	CD19	CD79A	CR2	IGKC	NA	NA	NA	NA	NA	NA	0,91560673	0,94689009
4	MS4A1	CD79A	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	0,92314232	0,94609559
4	MS4A1	CD79A	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,93199211	0,94588963
4	MS4A1	CD19	CD79A	IGKC	NA	NA	NA	NA	NA	NA	0,93052407	0,94499541
3	CD79A	FCRL2	PAX5	NA	NA	NA	NA	NA	NA	NA	0,85683343	0,94444187
4	CD79A	IGKC	PAX5	CD22	NA	NA	NA	NA	NA	NA	0,89474296	0,94415373
3	CD19	CD79A	PAX5	NA	NA	NA	NA	NA	NA	NA	0,87762003	0,94289464
4	CD79A	FCRL2	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,88594471	0,94254636
1	CR2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,80302115	0,94237086
3	CD79A	FCRL2	CD22	NA	NA	NA	NA	NA	NA	NA	0,87176333	0,94181899
4	CD19	CD79A	IGKC	PAX5	NA	NA	NA	NA	NA	NA	0,89750387	0,94129789
2	CD79A	BANK1	NA	NA	NA	NA	NA	NA	NA	NA	0,89852152	0,9390774
4	CD79A	FCRL2	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,87794757	0,93869974
3	CD19	CD79A	CD22	NA	NA	NA	NA	NA	NA	NA	0,88768	0,93762591
4	CD19	CD79A	IGKC	CD22	NA	NA	NA	NA	NA	NA	0,89031085	0,9355648
3	CD19	CD79A	FCRL2	NA	NA	NA	NA	NA	NA	NA	0,89918968	0,93538769

4	CD19	CD79A	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	0,88203976	0,93495944
3	CD79A	BANK1	IGKC	NA	NA	NA	NA	NA	NA	NA	0,88153346	0,93483355
1	CD19	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,86421676	0,93133691
2	MS4A1	CD79A	NA	NA	NA	NA	NA	NA	NA	NA	0,94490507	0,93037341
3	CD79A	CR2	IGKC	NA	NA	NA	NA	NA	NA	NA	0,88980211	0,92857923
3	MS4A1	CD79A	IGKC	NA	NA	NA	NA	NA	NA	NA	0,90861222	0,92837354
2	CD79A	CR2	NA	NA	NA	NA	NA	NA	NA	NA	0,90335602	0,92824394
3	CD79A	IGKC	PAX5	NA	NA	NA	NA	NA	NA	NA	0,8613556	0,92566544
2	CD79A	PAX5	NA	NA	NA	NA	NA	NA	NA	NA	0,805975	0,92252534
1	IGKC	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,73550985	0,92110471
3	CD79A	IGKC	CD22	NA	NA	NA	NA	NA	NA	NA	0,85056591	0,91865558
3	CD79A	FCRL2	IGKC	NA	NA	NA	NA	NA	NA	NA	0,8418475	0,91773439
2	CD79A	CD22	NA	NA	NA	NA	NA	NA	NA	NA	0,83033871	0,91607981
2	CD79A	FCRL2	NA	NA	NA	NA	NA	NA	NA	NA	0,86279721	0,91244163
3	CD19	CD79A	IGKC	NA	NA	NA	NA	NA	NA	NA	0,86119079	0,91080044
2	CD19	CD79A	NA	NA	NA	NA	NA	NA	NA	NA	0,89100279	0,8996609
2	CD79A	IGKC	NA	NA	NA	NA	NA	NA	NA	NA	0,80413697	0,86735643
1	CD79A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,82573471	0,80374716

Combination of genes for identification of cytotoxic lymphocytes

1	CD8B /// LOC100996919	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,9413936	NA
9	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	0,9902589	NA
8	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	0,99006425	NA

8	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	0,98640948	NA
8	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	0,98090553	NA
8	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	0,98011097	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	0,97975409	NA
7	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	0,97956756	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	0,97838768	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	0,97830428	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	0,97739418	NA
8	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	0,97727865	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	0,97685843	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	0,97653839	NA
7	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	0,97608674	NA
8	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	0,97551181	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	0,97507423	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	0,97463883	NA
8	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	0,97449377	NA

7	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	0,97331621	NA
7	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	0,97207271	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	0,9719625	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	0,97153412	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,97094866	NA
6	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	0,97070135	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	0,96937171	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	0,96922791	NA
8	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	0,96895651	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	0,96874368	NA
6	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,96784754	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	0,96768575	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	0,96741077	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	0,96709106	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	0,96702014	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	0,96697943	NA

7	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	0,96696895	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	0,96622326	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	0,9662044	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	0,96602043	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	0,96592429	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	0,96585275	NA
6	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	0,96582163	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	0,96489177	NA
6	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,96475244	NA
6	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	0,96466781	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	0,96447757	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	0,96427071	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,96404936	NA
7	CD8A	KLRD1	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,96375624	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	0,96372759	NA
8	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	0,96319254	NA

6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	0,96315232	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	0,96314544	NA
7	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,96244425	NA
7	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,96238285	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	0,96114694	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,96107269	NA
5	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	0,96030102	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	0,9602309	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	0,96022686	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	0,96018753	NA
6	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,96012208	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	0,95999771	NA
7	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,95977332	NA
6	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,95976623	NA
6	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	0,9596332	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	0,95887071	NA

5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	0,95876773	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC3	NA	NA	NA	NA	NA	0,95873982	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	0,95845319	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	0,95832321	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,95799553	NA
5	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,9578116	NA
5	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	0,95766313	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	0,95731301	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,95730014	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,95614194	NA
6	CD8A	KLRD1	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,95605541	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	KLRC3	NA	NA	NA	NA	0,95588134	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,95586183	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	0,95527409	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,95488811	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC3	NA	NA	NA	NA	NA	NA	0,95482071	NA

6	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,9545937	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,95458805	NA
7	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	0,95454626	NA
5	CD8A	KLRD1	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,95421526	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,95418307	NA
6	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	0,95413081	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,95401006	NA
5	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	0,95392777	NA
5	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	0,95346371	NA
6	CD8A	KLRD1	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,9527573	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,95265409	NA
5	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	0,95262131	NA
7	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,95260744	NA
5	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	0,95225292	NA
6	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,95221043	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,95217913	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,95213968	NA

4	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	0,9518934	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,95182312	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	KLRC3	NA	NA	NA	NA	NA	0,95181965	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	0,95176426	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,95175822	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	0,95162164	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC3	NA	NA	NA	NA	NA	NA	0,95139915	NA
6	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,95092297	NA
4	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	0,95064809	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,95042641	NA
5	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	0,95022938	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,95013278	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,95010108	NA
6	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,95005044	NA
4	CD8A	KLRD1	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	0,94979674	NA
4	CD8A	KLRD1	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,94943442	NA
3	CD8A	KLRD1	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,94940909	NA

3	CD8A	KLRD1	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	0,94905898	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,94892685	NA
6	CD8A	KLRD1	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,94886494	NA
5	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,94871788	NA
5	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	0,94825083	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	0,9482095	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,94801869	NA
5	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,94757578	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,94713576	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,94701027	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	0,9460037	NA
6	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	0,94595766	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	KLRC3	NA	NA	NA	NA	NA	0,94571546	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	0,94545099	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	0,9453507	NA
5	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	0,94489884	NA

5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	0,94487618	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	0,94482757	NA
6	CD8A	KLRD1	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,94443494	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,94437684	NA
4	CD8A	KLRD1	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	0,94430067	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	0,94337306	NA
4	CD8A	KLRD1	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	0,9431408	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	0,94310061	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	0,94305305	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	KLRC3	NA	NA	NA	NA	NA	0,94234637	NA
4	CD8A	KLRD1	GNLY	KLRC3	NA	NA	NA	NA	NA	NA	0,94228605	NA
6	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,94200001	NA
6	CD8A	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,9419966	NA
5	CD8A	KLRD1	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,9414498	NA
5	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,94112072	NA
5	CD8A	KLRD1	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,94043615	NA
4	CD8A	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	0,94015008	NA
5	CD8A	KLRD1	GNLY	EOMES	KLRC3	NA	NA	NA	NA	NA	0,9400655	NA

7	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,93976065	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	0,93959275	NA
6	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,93890904	NA
3	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	0,9388211	NA
5	CD8A	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,93817122	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	0,93764544	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,93760979	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	0,93632167	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	0,9362404	NA
5	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	0,93613552	NA
4	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	0,93600922	NA
5	CD8A	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,93593321	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	0,9358559	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC3	NA	NA	NA	NA	NA	NA	0,93551127	NA
5	CD8A	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,93537971	NA
4	CD8A	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	0,93534916	NA

6	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	0,93493089	NA
7	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	0,9342998	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,93392778	NA
4	CD8A	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,93382586	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	0,93345576	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	0,93336684	NA
7	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,93334678	NA
5	KLRD1	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,93327604	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	0,93325023	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,93324448	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,93318605	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	0,93318068	NA
6	KLRD1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,93289695	NA
6	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,9325665	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	0,93235864	NA
6	KLRD1	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,93185897	NA
4	CD8A	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,93162891	NA

6	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,93133114	NA
3	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,93132789	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,93001779	NA
5	CD8A	KLRD1	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,92993556	NA
5	CD8A	KLRD1	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92941475	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,92863261	NA
5	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92824297	NA
3	CD8A	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	0,92796656	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	0,92768814	NA
4	CD8A	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	0,92751963	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92740346	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92710632	NA
5	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92706217	NA
7	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,92699077	NA
4	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	0,92656799	NA
5	CD8A	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92629821	NA
4	CD8A	KLRD1	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,92601034	NA

5	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,92564162	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,92563658	NA
6	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,92556369	NA
4	CD8A	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,92543305	NA
3	CD8A	GNLY	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,92522779	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,92463756	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,92461619	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	KLRC4	NA	NA	NA	NA	NA	0,92397762	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,9239641	NA
5	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92364775	NA
6	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,92351616	NA
4	CD8A	KLRD1	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,92254045	NA
5	CD8A	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,92239823	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92237424	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,92235538	NA
3	CD8A	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	NA	0,92219311	NA
4	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,92186156	NA

4	CD8A	GNLY	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,92172468	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	0,92169522	NA
6	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,92122519	NA
4	KLRD1	GNLY	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,92101993	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,92082444	NA
4	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	0,92050653	NA
6	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,9204021	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,91921028	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	KLRC4	NA	NA	NA	NA	0,91902403	NA
5	KLRD1	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,91897104	NA
4	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,9188339	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,91865253	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	0,91812595	NA
5	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,91714826	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,9170024	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	KLRC4	NA	NA	NA	NA	NA	0,9169599	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,91684413	NA

4	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	KLRC4	NA	NA	NA	NA	NA	NA	0,91678425	NA
5	CD8A	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,91673651	NA
3	KLRD1	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	NA	0,91673243	NA
5	CD8A	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,91664975	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	KLRC4	NA	NA	NA	NA	NA	NA	0,91644053	NA
7	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	0,91554974	NA
5	CD8A	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,91549095	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	0,91528117	NA
2	CD8A	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	NA	0,91454136	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,91302221	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,91284232	NA
5	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,91239453	NA
4	KLRD1	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,91183637	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC4	NA	NA	NA	NA	NA	NA	0,91182594	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,9116195	NA
4	GNLY	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,91121364	NA

5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,9108215	NA
4	CD8A	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,910677	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	0,90921946	NA
3	CD8A	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,90911222	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	0,90832511	NA
3	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	0,90807598	NA
6	CD8A	KLRD1	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	0,90780154	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	0,90768374	NA
2	CD8A	KLRC3	NA	NA	NA	NA	NA	NA	NA	NA	0,90673128	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	FGFBP2	NA	NA	NA	NA	NA	0,90638933	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	KLRC4	NA	NA	NA	NA	NA	0,90582226	NA
3	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	NA	0,90484148	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,90481931	NA
3	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	0,90427726	NA
6	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,90361268	NA
3	GNLY	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	NA	0,90359784	NA
4	GNLY	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,90348314	NA

4	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,90348017	NA
3	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,90321755	NA
5	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,90228908	NA
3	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,9017638	NA
5	CD8A	KLRD1	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,90079834	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	0,90042493	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	0,90020773	NA
4	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,89981954	NA
4	CD8A	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,89942107	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,8993804	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	0,89936507	NA
3	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,89931242	NA
5	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,89888859	NA
3	CD8A	KLRD1	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,89769889	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	KLRC4	NA	NA	NA	NA	NA	0,89754497	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,89740939	NA
5	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,89715595	NA

5	CD8A	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,89698238	NA
4	CD8A	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,89691548	NA
3	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,89677633	NA
4	CD8A	KLRD1	GNLY	KLRC4	NA	NA	NA	NA	NA	NA	0,8965286	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,89639457	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,89629487	NA
4	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	0,89622397	NA
6	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,89593797	NA
5	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,89586422	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	0,89581538	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,89464797	NA
4	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,89457688	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,89443536	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	NA	NA	NA	NA	NA	NA	0,89424631	NA
3	CD8A	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,89420021	NA
3	CD8A	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,89383204	NA
4	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,89348471	NA

5	CD8A	KLRD1	GNLY	EOMES	KLRC4	NA	NA	NA	NA	NA	0,89339293	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,89237057	NA
3	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,89203883	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	GNLY	EOMES	NA	NA	NA	NA	NA	0,8917059	NA
3	KLRD1	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	0,89128993	NA
6	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,8909257	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,8907865	NA
4	KLRD1	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,88990162	NA
5	GNLY	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,88974259	NA
4	KLRD1	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	0,88866559	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	FGFBP2	NA	NA	NA	NA	NA	NA	0,88793917	NA
4	GNLY	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,88767492	NA
4	KLRD1	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,88624942	NA
3	KLRD1	GNLY	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,88596417	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,88587145	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	EOMES	NA	NA	NA	NA	NA	NA	0,88586913	NA
5	KLRD1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,8844102	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,88436118	NA

4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	FGFBP2	NA	NA	NA	NA	NA	NA	0,88396855	NA
3	CD8A	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,88331021	NA
3	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	NA	NA	NA	NA	NA	NA	NA	0,8830672	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,88220809	NA
5	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,88118591	NA
5	CD8A	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,88076514	NA
3	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	NA	NA	NA	NA	NA	NA	NA	0,88022434	NA
3	KLRD1	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,88009994	NA
4	CD8A	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,87998257	NA
3	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	NA	NA	NA	NA	NA	NA	NA	0,87986542	NA
5	GNLY	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,8797811	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,87972618	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,87970193	NA
5	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,87952409	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,8786334	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,87850074	NA
5	CD8A	KLRD1	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,87805021	NA
5	KLRD1	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,87777326	NA
5	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,87766058	NA

3	CD8A	GNLY	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,8771677	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,87628243	NA
4	CD8A	KLRD1	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,87624262	NA
3	GNLY	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,8758787	NA
5	KLRD1	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,87482668	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	GNLY	FGFBP2	NA	NA	NA	NA	NA	NA	0,87472844	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	GNLY	EOMES	NA	NA	NA	NA	NA	NA	0,87460188	NA
6	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,87427265	NA
4	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	0,87425641	NA
5	KLRD1	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,87369788	NA
4	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	0,87335799	NA
4	KLRD1	GNLY	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,87334095	NA
5	CD8A	KLRD1	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	NA	0,87327714	NA
6	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,87267461	NA
2	KLRC4-KLRK1 /// KLRK1	KLRD1	NA	NA	NA	NA	NA	NA	NA	NA	0,87211632	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	0,87111511	NA
3	CD8A	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,86951507	NA
4	CD8A	GNLY	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,86923702	NA
6	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,86895689	NA

4	CD8A	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,86889304	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,8685964	NA
4	CD8A	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,86829337	NA
5	KLRD1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,86779001	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,86705829	NA
4	CD8A	KLRD1	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	0,86597385	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	0,86539343	NA
4	GNLY	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,86520875	NA
4	KLRD1	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,86453396	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	KLRD1	EOMES	NA	NA	NA	NA	NA	NA	0,86362922	NA
4	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,86351775	NA
5	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,86317904	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,86262794	NA
3	KLRC4-KLRK1 /// KLRK1	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,86248735	NA
2	CD8A	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	0,8616116	NA
4	KLRD1	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,86145768	NA
5	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,86129908	NA
5	CD8A	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,86126219	NA

4	KLRC4-KLRK1 /// KLRK1	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,86122787	NA
4	CD8A	KLRD1	GNLY	FGFBP2	NA	NA	NA	NA	NA	NA	0,8603558	NA
4	KLRC4-KLRK1 /// KLRK1	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,85963114	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	0,85947126	NA
2	KLRC4-KLRK1 /// KLRK1	GNLY	NA	NA	NA	NA	NA	NA	NA	NA	0,85879662	NA
3	KLRC4-KLRK1 /// KLRK1	GNLY	EOMES	NA	NA	NA	NA	NA	NA	NA	0,85845387	NA
4	CD8A	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,85720582	NA
4	CD8A	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,85633043	NA
4	CD8A	KLRD1	GNLY	EOMES	NA	NA	NA	NA	NA	NA	0,85544439	NA
6	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	0,85537441	NA
2	KLRC4-KLRK1 /// KLRK1	CD8A	NA	NA	NA	NA	NA	NA	NA	NA	0,8551951	NA
5	KLRC4-KLRK1 /// KLRK1	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,85499646	NA
3	CD8A	KLRD1	GNLY	NA	NA	NA	NA	NA	NA	NA	0,8512096	NA
4	KLRC4-KLRK1 /// KLRK1	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,85100814	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,85036315	NA
3	KLRD1	GNLY	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,85012946	NA
4	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,85003054	NA
3	CD8A	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,84841151	NA

2	KLRD1	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	NA	0,84718047	NA
5	KLRC4-KLRK1 /// KLRK1	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	0,846217	NA
3	KLRC4-KLRK1 /// KLRK1	KLRD1	EOMES	NA	NA	NA	NA	NA	NA	NA	0,84466219	NA
4	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,84329946	NA
3	KLRC1 /// KLRC2	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,84117092	NA
4	CD8A	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,83978903	NA
2	KLRC1 /// KLRC2	EOMES	NA	NA	NA	NA	NA	NA	NA	NA	0,83927806	NA
3	KLRC4-KLRK1 /// KLRK1	CD8A	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,83917503	NA
1	KLRC4-KLRK1 /// KLRK1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,83903918	NA
2	KLRD1	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	0,83889425	NA
3	KLRD1	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,83750627	NA
4	KLRC1 /// KLRC2	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,8370139	NA
3	GNLY	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,83448343	NA
4	KLRD1	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,8342172	NA
2	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	NA	0,83265029	NA
4	CD8A	KLRD1	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	0,83264871	NA
2	CD8A	KLRD1	NA	NA	NA	NA	NA	NA	NA	NA	0,83247306	NA
2	GNLY	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	NA	0,83119893	NA

4	GNLY	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,82993986	NA
4	KLRD1	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,82880526	NA
3	KLRC1 /// KLRC2	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,82874896	NA
3	KLRC4-KLRK1 /// KLRK1	CD8A	EOMES	NA	NA	NA	NA	NA	NA	NA	0,82651069	NA
2	KLRC4-KLRK1 /// KLRK1	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	0,82641886	NA
4	KLRD1	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,82629673	NA
3	KLRC4-KLRK1 /// KLRK1	GNLY	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,82582009	NA
3	KLRD1	GNLY	EOMES	NA	NA	NA	NA	NA	NA	NA	0,82419031	NA
3	KLRD1	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,82362763	NA
3	CD8A	GNLY	EOMES	NA	NA	NA	NA	NA	NA	NA	0,823523	NA
3	GNLY	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,82261291	NA
2	KLRD1	KLRC3	NA	NA	NA	NA	NA	NA	NA	NA	0,82195489	NA
3	GNLY	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,82130915	NA
4	CD8A	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,82015448	NA
2	CD8A	GNLY	NA	NA	NA	NA	NA	NA	NA	NA	0,82014659	NA
3	CD8A	KLRD1	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,81994423	NA
3	KLRD1	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,81930651	NA
3	KLRC4-KLRK1 /// KLRK1	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,81916759	NA
4	GNLY	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,81856225	NA
3	CD8A	GNLY	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,81841621	NA
3	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,81672317	NA

4	KLRC1 /// KLRC2	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,81506253	NA
3	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,81481461	NA
3	CD8A	KLRD1	EOMES	NA	NA	NA	NA	NA	NA	NA	0,81472306	NA
3	KLRC4-KLRK1 /// KLRK1	KLRD1	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,81314651	NA
3	CD8A	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,81227278	NA
5	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,81143755	NA
4	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,8113128	NA
4	KLRC4-KLRK1 /// KLRK1	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,81117008	NA
3	KLRC1 /// KLRC2	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,80946329	NA
4	KLRD1	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,80824659	NA
4	GNLY	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,80749078	NA
3	GNLY	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,80616404	NA
5	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,80557714	NA
2	GNLY	KLRC3	NA	NA	NA	NA	NA	NA	NA	NA	0,80502225	NA
3	GNLY	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,80270197	NA
4	KLRC1 /// KLRC2	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,80220239	NA
3	KLRD1	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,79876021	NA
4	GNLY	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,7976675	NA
3	CD8A	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,79535419	NA

4	KLRD1	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,79428561	NA
3	KLRD1	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,78981139	NA
5	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,78935325	NA
2	KLRC4-KLRK1 /// KLRK1	KLRC3	NA	NA	NA	NA	NA	NA	NA	NA	0,78934159	NA
2	KLRD1	GNLY	NA	NA	NA	NA	NA	NA	NA	NA	0,78817891	NA
4	GNLY	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,78293964	NA
4	KLRD1	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,78025864	NA
4	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	0,77973367	NA
2	GNLY	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	0,77559941	NA
3	KLRD1	GNLY	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,77453903	NA
5	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	0,7724666	NA
3	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	NA	0,77086709	NA
1	CD8A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,76856621	NA
2	KLRC4-KLRK1 /// KLRK1	EOMES	NA	NA	NA	NA	NA	NA	NA	NA	0,76814083	NA
3	GNLY	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,76784552	NA
3	EOMES	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,76606354	NA
3	KLRC4-KLRK1 /// KLRK1	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,76495018	NA
3	GNLY	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,76355612	NA
3	CD8A	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,76312423	NA
4	KLRD1	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,76197313	NA

3	KLRC4-KLRK1 /// KLRK1	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,76027789	NA
4	KLRC4-KLRK1 /// KLRK1	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	0,75967893	NA
2	GNLY	EOMES	NA	NA	NA	NA	NA	NA	NA	NA	0,75890717	NA
4	EOMES	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,75475565	NA
2	EOMES	KLRC3	NA	NA	NA	NA	NA	NA	NA	NA	0,75266539	NA
3	KLRD1	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,75134016	NA
1	KLRD1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,7462866	NA
2	CD8A	EOMES	NA	NA	NA	NA	NA	NA	NA	NA	0,74613775	NA
3	KLRD1	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,74488984	NA
2	KLRD1	EOMES	NA	NA	NA	NA	NA	NA	NA	NA	0,74426978	NA
4	KLRC4-KLRK1 /// KLRK1	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,74212579	NA
3	KLRC4-KLRK1 /// KLRK1	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,74179458	NA
3	EOMES	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,73238182	NA
3	GNLY	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,72448749	NA
2	CD8A	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,71787495	NA
3	KLRC4-KLRK1 /// KLRK1	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,71583271	NA
3	KLRD1	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,70523995	NA
1	GNLY	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,68646725	NA
2	KLRC1 /// KLRC2	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	0,68606176	NA
1	KLRC1 /// KLRC2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,68514386	NA
3	KLRC1 /// KLRC2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,68385352	NA
2	EOMES	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	0,67011909	NA

4	KLRC1 /// KLRC2	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	0,66898733	NA
2	KLRC1 /// KLRC2	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,66765121	NA
3	KLRC1 /// KLRC2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,66409519	NA
3	EOMES	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,6597477	NA
2	KLRC4-KLRK1 /// KLRK1	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,65867921	NA
3	KLRC1 /// KLRC2	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	NA	0,65024679	NA
2	GNLY	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,64930629	NA
2	KLRC1 /// KLRC2	KLRC3	NA	NA	NA	NA	NA	NA	NA	NA	0,64850512	NA
2	KLRD1	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,61321632	NA
2	EOMES	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,57096668	NA
1	EOMES	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,55582784	NA
3	KLRC3	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	0,54792441	NA
2	KLRC3	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	0,54780652	NA
1	KLRC3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,5237198	NA
2	KLRC3	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,50313019	NA
1	KLRC4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,48929452	NA
2	KLRC4	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	0,39094689	NA

Combination of genes for identification of endothelial cells

1	FGFBP2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,23362783	NA
9	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	0,95845253	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	0,95800555	NA

7	CDH5	MYCT1	CLEC14A	EMCN	VWF	ESAM	KDR	NA	NA	NA	0,95784257	NA
8	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	0,95783516	NA
8	CDH5	MYCT1	CLEC14A	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	0,9575579	NA
6	CDH5	MYCT1	CLEC14A	EMCN	VWF	ESAM	NA	NA	NA	NA	0,95754319	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	0,95752418	NA
7	CDH5	MYCT1	CLEC14A	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	0,95700372	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	NA	0,95691538	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	0,95686558	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	0,95683616	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	0,95647575	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	0,95632336	NA
7	MYCT1	CLEC14A	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,95629537	NA
6	MYCT1	CLEC14A	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	0,95616531	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	KDR	NA	NA	NA	0,9561248	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	0,95551279	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	0,95543829	NA
6	CDH5	MYCT1	CLEC14A	EMCN	VWF	KDR	NA	NA	NA	NA	0,95528518	NA
7	CDH5	MYCT1	CLEC14A	EMCN	VWF	MMRN2	KDR	NA	NA	NA	0,955271	NA
6	MYCT1	CLEC14A	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,95503027	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	0,95500482	NA
8	CDH5	MYCT1	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	0,95496222	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	NA	0,95495155	NA
5	MYCT1	CLEC14A	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	0,9549135	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	NA	0,95483027	NA
10	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	0,95480261	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ESAM	NA	NA	NA	NA	0,95475525	NA
9	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	0,95410255	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	0,95395613	NA
7	CDH5	MYCT1	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	0,95391269	NA

7	CDH5	MYCT1	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	NA	0,95391191	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	VWF	KDR	NA	NA	NA	NA	0,95390138	NA
9	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	0,95386259	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	NA	NA	NA	NA	0,95376966	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	0,95370792	NA
7	MYCT1	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,95368727	NA
6	CDH5	MYCT1	CLEC14A	EMCN	VWF	MMRN2	NA	NA	NA	NA	0,95351568	NA
9	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	0,9534452	NA
5	CDH5	MYCT1	CLEC14A	EMCN	VWF	NA	NA	NA	NA	NA	0,95344091	NA
6	CDH5	MYCT1	CLEC14A	EMCN	MMRN2	ESAM	NA	NA	NA	NA	0,95334655	NA
7	CDH5	MYCT1	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,95324277	NA
9	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	0,9529976	NA
6	CDH5	MYCT1	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	0,95280465	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	0,9527461	NA
8	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,95273556	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	0,95273527	NA
6	MYCT1	CLEC14A	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	0,95268357	NA
8	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	0,95268343	NA
6	CDH5	MYCT1	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	NA	0,95256609	NA
6	CDH5	MYCT1	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,95253046	NA
7	CDH5	MYCT1	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	0,95240229	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	NA	0,95236093	NA
5	CDH5	MYCT1	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	0,95234614	NA
8	CDH5	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	0,95231961	NA
8	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	0,95228094	NA
8	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	0,95225264	NA
9	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	0,95210181	NA
5	CDH5	MYCT1	CLEC14A	EMCN	ESAM	NA	NA	NA	NA	NA	0,95208494	NA
7	CDH5	MYCT1	CLEC14A	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	0,95197494	NA

6	MYCT1	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,95192702	NA
6	MYCT1	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	0,95183685	NA
5	MYCT1	CLEC14A	EMCN	VWF	KDR	NA	NA	NA	NA	NA	0,95172462	NA
8	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	0,95160252	NA
5	MYCT1	CLEC14A	ROBO4	EMCN	ESAM	NA	NA	NA	NA	NA	0,95146531	NA
6	CDH5	MYCT1	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	NA	0,95127385	NA
9	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	0,95123484	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	0,9511948	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	0,95107194	NA
7	CDH5	CLEC14A	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	NA	0,95104637	NA
7	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,95098809	NA
6	MYCT1	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,95088459	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	0,95082226	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	NA	0,95078198	NA
6	CDH5	MYCT1	ROBO4	EMCN	VWF	KDR	NA	NA	NA	NA	0,95077017	NA
7	CDH5	CLEC14A	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,95074895	NA
7	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	0,95064184	NA
9	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	0,95062874	NA
9	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	0,95060483	NA
8	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	0,95050868	NA
7	CDH5	CLEC14A	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	0,95045217	NA
8	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	0,95042186	NA
7	MYCT1	CLEC14A	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,9503705	NA
7	CDH5	MYCT1	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	0,95035744	NA
6	CDH5	CLEC14A	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	0,9502555	NA
7	CDH5	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	0,95017625	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	0,9501157	NA
6	CDH5	MYCT1	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	NA	0,9501067	NA
6	CDH5	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	NA	0,95007926	NA

6	CDH5	MYCT1	CLEC14A	EMCN	ESAM	KDR	NA	NA	NA	NA	0,9500687	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	KDR	NA	NA	NA	NA	0,95006706	NA
7	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,95001376	NA
9	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	0,94997195	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	VWF	ESAM	KDR	NA	NA	NA	0,94992421	NA
6	MYCT1	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94986953	NA
7	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94985459	NA
7	CDH5	MYCT1	CLEC14A	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94976502	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	0,94973531	NA
8	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	0,94963952	NA
5	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	NA	NA	NA	NA	NA	0,94963275	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	0,94962595	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	NA	0,94961937	NA
7	CDH5	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	0,94958891	NA
6	CDH5	MYCT1	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94958119	NA
6	CDH5	MYCT1	CLEC14A	VWF	ESAM	KDR	NA	NA	NA	NA	0,94955273	NA
5	MYCT1	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,94952574	NA
8	CDH5	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94948784	NA
5	MYCT1	CLEC14A	ROBO4	EMCN	VWF	NA	NA	NA	NA	NA	0,94947062	NA
8	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94940878	NA
5	MYCT1	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	0,94926077	NA
5	MYCT1	CLEC14A	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94923424	NA
5	MYCT1	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94920562	NA
8	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94911799	NA
5	MYCT1	CLEC14A	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	0,94908914	NA
8	CDH5	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94903521	NA
8	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94901943	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	0,94891904	NA
6	CDH5	CLEC14A	ROBO4	EMCN	VWF	KDR	NA	NA	NA	NA	0,9488437	NA

6	CDH5	MYCT1	CLEC14A	ROBO4	VWF	KDR	NA	NA	NA	NA	0,94883447	NA
8	CDH5	MYCT1	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94883288	NA
8	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	0,94881796	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	0,94879526	NA
5	MYCT1	CLEC14A	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	NA	0,948658	NA
6	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94843787	NA
5	CDH5	MYCT1	EMCN	VWF	KDR	NA	NA	NA	NA	NA	0,94837585	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	0,94832	NA
5	CDH5	MYCT1	CLEC14A	VWF	KDR	NA	NA	NA	NA	NA	0,94828991	NA
8	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	0,94826962	NA
8	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	0,94826436	NA
8	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	0,94825447	NA
6	MYCT1	CLEC14A	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94825248	NA
7	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94823728	NA
6	CDH5	MYCT1	CLEC14A	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94817364	NA
5	MYCT1	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94814563	NA
6	CDH5	CLEC14A	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94807556	NA
6	MYCT1	CLEC14A	ROBO4	VWF	ESAM	KDR	NA	NA	NA	NA	0,94806073	NA
6	CDH5	CLEC14A	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94805378	NA
7	CDH5	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94803833	NA
5	CDH5	MYCT1	ROBO4	EMCN	ESAM	NA	NA	NA	NA	NA	0,94799564	NA
7	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	KDR	NA	NA	NA	0,94799011	NA
7	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94797913	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	0,94796442	NA
8	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	0,9479478	NA
7	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	0,94793438	NA
7	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	0,9479319	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	0,94791939	NA
6	MYCT1	CLEC14A	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94781719	NA

8	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	0,9477904	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	0,94778431	NA
6	MYCT1	CLEC14A	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,94772241	NA
8	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	0,94772185	NA
4	MYCT1	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,94766941	NA
5	CDH5	MYCT1	ROBO4	EMCN	VWF	NA	NA	NA	NA	NA	0,94765919	NA
6	CDH5	CLEC14A	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	NA	0,94759027	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	0,94757787	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	0,94755517	NA
6	CDH5	CLEC14A	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	NA	0,94751924	NA
6	CDH5	MYCT1	CLEC14A	EMCN	MMRN2	KDR	NA	NA	NA	NA	0,94747353	NA
6	CLEC14A	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	0,94741722	NA
7	CDH5	CLEC14A	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94740687	NA
6	CDH5	CLEC14A	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	NA	0,94736678	NA
6	MYCT1	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94734794	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	0,94734621	NA
5	CDH5	CLEC14A	ROBO4	EMCN	ESAM	NA	NA	NA	NA	NA	0,94730652	NA
5	CDH5	CLEC14A	EMCN	VWF	KDR	NA	NA	NA	NA	NA	0,94728042	NA
5	MYCT1	CLEC14A	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,94727197	NA
7	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94726031	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	0,94723648	NA
7	CDH5	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,94721796	NA
5	CDH5	CLEC14A	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	0,94721365	NA
6	CDH5	MYCT1	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	NA	0,94718768	NA
5	CDH5	MYCT1	CLEC14A	EMCN	MMRN2	NA	NA	NA	NA	NA	0,94716372	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	0,94710882	NA
5	CDH5	MYCT1	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	0,94709624	NA
7	CDH5	MYCT1	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,9470815	NA
7	CDH5	MYCT1	CLEC14A	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94706952	NA

4	MYCT1	CLEC14A	EMCN	VWF	NA	NA	NA	NA	NA	NA	0,94699689	NA
6	CLEC14A	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94699278	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	0,946912	NA
7	CDH5	MYCT1	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94688992	NA
8	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	0,94688504	NA
7	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	0,94684423	NA
6	CLEC14A	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94680083	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	0,94679558	NA
5	MYCT1	ROBO4	EMCN	VWF	KDR	NA	NA	NA	NA	NA	0,94677222	NA
6	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94674454	NA
8	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	0,94664295	NA
6	CDH5	MYCT1	CLEC14A	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94662256	NA
7	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,94661046	NA
7	CDH5	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,94660035	NA
7	MYCT1	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94656173	NA
6	MYCT1	CLEC14A	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94654882	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	MMRN2	KDR	NA	NA	NA	NA	0,94646686	NA
6	CDH5	CLEC14A	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	NA	0,94637698	NA
5	MYCT1	CLEC14A	ROBO4	VWF	KDR	NA	NA	NA	NA	NA	0,94630134	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	0,9462891	NA
7	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94623815	NA
7	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94623738	NA
7	CDH5	MYCT1	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94617713	NA
5	CDH5	MYCT1	CLEC14A	VWF	ESAM	NA	NA	NA	NA	NA	0,94614155	NA
5	MYCT1	CLEC14A	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94609267	NA
5	CDH5	CLEC14A	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	NA	0,94608006	NA
7	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,94604726	NA
7	CDH5	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94594875	NA
5	CDH5	MYCT1	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94594515	NA

6	CDH5	MYCT1	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	NA	0,94591999	NA
5	CDH5	CLEC14A	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94590987	NA
6	CDH5	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	0,94589711	NA
5	MYCT1	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	0,94585176	NA
8	CDH5	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94581979	NA
5	CLEC14A	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	0,9457815	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	VWF	ESAM	NA	NA	NA	NA	0,94576976	NA
7	CDH5	CLEC14A	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94576151	NA
6	CDH5	CLEC14A	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94569694	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	NA	NA	NA	NA	0,94566939	NA
7	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,94566056	NA
7	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,9456182	NA
6	MYCT1	CLEC14A	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,94557929	NA
7	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,94554499	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	0,94552055	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	0,94548406	NA
4	CDH5	MYCT1	EMCN	VWF	NA	NA	NA	NA	NA	NA	0,94545124	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	ESAM	KDR	NA	NA	NA	NA	0,94545021	NA
8	CDH5	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	0,94542755	NA
7	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,9454033	NA
7	MYCT1	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94537987	NA
6	CLEC14A	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94537067	NA
6	CDH5	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94535867	NA
7	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	0,94534402	NA
7	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,9453382	NA
6	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94531792	NA
5	MYCT1	CLEC14A	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,94526302	NA
5	CDH5	MYCT1	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	NA	0,94524652	NA
5	CLEC14A	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,94515906	NA

5	CDH5	MYCT1	CLEC14A	ROBO4	MMRN2	NA	NA	NA	NA	NA	0,94512439	NA
8	CDH5	MYCT1	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94508785	NA
6	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94508112	NA
4	MYCT1	CLEC14A	VWF	KDR	NA	NA	NA	NA	NA	NA	0,9450565	NA
4	MYCT1	CLEC14A	EMCN	ESAM	NA	NA	NA	NA	NA	NA	0,94504601	NA
5	MYCT1	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,94502007	NA
6	CDH5	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94500324	NA
7	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	0,94499869	NA
7	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94499519	NA
6	CDH5	MYCT1	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94491577	NA
6	MYCT1	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94488619	NA
6	CDH5	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94487205	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	0,94486875	NA
6	CDH5	MYCT1	ROBO4	VWF	ESAM	KDR	NA	NA	NA	NA	0,94476396	NA
6	CDH5	MYCT1	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94475304	NA
5	CDH5	MYCT1	CLEC14A	ROBO4	ESAM	NA	NA	NA	NA	NA	0,94463495	NA
7	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	0,94457762	NA
7	CDH5	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,94455315	NA
7	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	0,94451429	NA
6	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	NA	NA	NA	NA	0,94449379	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	0,9444928	NA
5	MYCT1	CLEC14A	ROBO4	EMCN	KDR	NA	NA	NA	NA	NA	0,94448911	NA
6	ROBO4	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94444423	NA
6	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,94443559	NA
7	CDH5	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	0,94439954	NA
6	CDH5	MYCT1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94436227	NA
6	CDH5	CLEC14A	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,94435425	NA
6	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,94433846	NA
6	MYCT1	CLEC14A	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	0,94412315	NA

6	MYCT1	CLEC14A	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,94408752	NA
5	CDH5	MYCT1	CLEC14A	EMCN	KDR	NA	NA	NA	NA	NA	0,94408504	NA
7	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	0,94407754	NA
7	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94407037	NA
7	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	0,94406554	NA
6	CDH5	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94406317	NA
5	MYCT1	CLEC14A	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	0,9440444	NA
6	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94401294	NA
7	CDH5	MYCT1	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94400471	NA
6	CLEC14A	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,94398762	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	0,94397123	NA
4	CDH5	CLEC14A	EMCN	ESAM	NA	NA	NA	NA	NA	NA	0,94389966	NA
7	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	0,94389461	NA
6	MYCT1	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94387427	NA
6	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,94386288	NA
5	CDH5	CLEC14A	ROBO4	EMCN	KDR	NA	NA	NA	NA	NA	0,94385661	NA
6	CDH5	MYCT1	CLEC14A	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,94385244	NA
5	CDH5	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,94379729	NA
6	CLEC14A	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94379507	NA
6	CDH5	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,94377567	NA
5	CDH5	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94376782	NA
7	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	0,94373482	NA
5	MYCT1	CLEC14A	ROBO4	MMRN2	KDR	NA	NA	NA	NA	NA	0,9437334	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	0,94369447	NA
7	CDH5	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94367113	NA
7	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	0,94363962	NA
6	CDH5	MYCT1	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,94363842	NA
7	MYCT1	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94361023	NA
8	CDH5	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	0,94360301	NA

6	CDH5	MYCT1	CLEC14A	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94354541	NA
5	CDH5	CLEC14A	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	0,94353061	NA
4	CDH5	MYCT1	CLEC14A	EMCN	NA	NA	NA	NA	NA	NA	0,94351862	NA
5	CDH5	MYCT1	CLEC14A	VWF	MMRN2	NA	NA	NA	NA	NA	0,94345847	NA
6	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	ESAM	NA	NA	NA	NA	0,94345113	NA
5	CDH5	CLEC14A	ROBO4	EMCN	VWF	NA	NA	NA	NA	NA	0,94340946	NA
5	CLEC14A	ROBO4	EMCN	VWF	KDR	NA	NA	NA	NA	NA	0,94340373	NA
7	CDH5	MYCT1	CLEC14A	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,94339569	NA
5	CDH5	MYCT1	CLEC14A	MMRN2	ESAM	NA	NA	NA	NA	NA	0,9433847	NA
6	CDH5	MYCT1	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94322186	NA
6	CDH5	MYCT1	CLEC14A	ELTD1	VWF	KDR	NA	NA	NA	NA	0,94320846	NA
7	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	0,94320592	NA
5	CDH5	MYCT1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,94317872	NA
7	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94314706	NA
7	CDH5	MYCT1	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94313311	NA
5	CDH5	MYCT1	CLEC14A	ROBO4	KDR	NA	NA	NA	NA	NA	0,9430895	NA
4	CDH5	MYCT1	CLEC14A	VWF	NA	NA	NA	NA	NA	NA	0,9430482	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	0,94301461	NA
5	CDH5	MYCT1	CLEC14A	ROBO4	VWF	NA	NA	NA	NA	NA	0,94300589	NA
5	CDH5	CLEC14A	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	0,94296402	NA
5	MYCT1	CLEC14A	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94283637	NA
7	CDH5	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,94281143	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	NA	0,94280113	NA
7	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	0,9427626	NA
6	CDH5	CLEC14A	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	0,94269565	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	0,94263224	NA
6	MYCT1	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,94254749	NA
6	CDH5	MYCT1	CLEC14A	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,94251689	NA
7	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	0,94249949	NA

7	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,9423922	NA
7	CDH5	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94238765	NA
5	CLEC14A	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,94226245	NA
5	CDH5	MYCT1	ROBO4	VWF	KDR	NA	NA	NA	NA	NA	0,9422484	NA
4	CDH5	MYCT1	EMCN	ESAM	NA	NA	NA	NA	NA	NA	0,94223056	NA
7	CDH5	CLEC14A	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94214747	NA
5	CDH5	ROBO4	EMCN	VWF	KDR	NA	NA	NA	NA	NA	0,94208286	NA
5	CDH5	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94205512	NA
6	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	NA	0,94199135	NA
5	MYCT1	CLEC14A	ROBO4	ESAM	KDR	NA	NA	NA	NA	NA	0,94197005	NA
6	CDH5	MYCT1	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94195499	NA
6	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	NA	0,9419485	NA
6	CDH5	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,94193234	NA
4	MYCT1	CLEC14A	ROBO4	MMRN2	NA	NA	NA	NA	NA	NA	0,94187209	NA
6	CLEC14A	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,94186023	NA
5	CLEC14A	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	0,941852	NA
5	CLEC14A	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94183272	NA
5	CLEC14A	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	0,94181245	NA
6	CDH5	CLEC14A	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,94180871	NA
7	CDH5	MYCT1	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,94180189	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	NA	0,94178607	NA
5	MYCT1	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	0,94178174	NA
4	CDH5	CLEC14A	ROBO4	EMCN	NA	NA	NA	NA	NA	NA	0,94174309	NA
4	CDH5	CLEC14A	EMCN	VWF	NA	NA	NA	NA	NA	NA	0,94172281	NA
5	MYCT1	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,94171325	NA
4	MYCT1	EMCN	VWF	KDR	NA	NA	NA	NA	NA	NA	0,94170283	NA
7	CDH5	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94170004	NA
5	CDH5	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	0,94166084	NA
5	MYCT1	ROBO4	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,94162035	NA

4	MYCT1	ROBO4	EMCN	ESAM	NA	NA	NA	NA	NA	NA	0,94160552	NA
4	MYCT1	CLEC14A	ROBO4	EMCN	NA	NA	NA	NA	NA	NA	0,94160303	NA
7	CDH5	MYCT1	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94157442	NA
5	MYCT1	CLEC14A	ROBO4	VWF	MMRN2	NA	NA	NA	NA	NA	0,94155384	NA
4	CDH5	MYCT1	CLEC14A	ESAM	NA	NA	NA	NA	NA	NA	0,94151864	NA
5	MYCT1	CLEC14A	ROBO4	VWF	ESAM	NA	NA	NA	NA	NA	0,94148451	NA
7	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94147739	NA
7	CDH5	MYCT1	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94147088	NA
6	MYCT1	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,94145003	NA
4	MYCT1	CLEC14A	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,94138167	NA
6	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,94127513	NA
5	CDH5	MYCT1	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94126888	NA
7	CDH5	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,94121065	NA
4	CDH5	MYCT1	CLEC14A	ROBO4	NA	NA	NA	NA	NA	NA	0,94120289	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	0,94118732	NA
5	CDH5	MYCT1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,94116585	NA
6	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	0,94115849	NA
7	CDH5	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,94112235	NA
5	MYCT1	CLEC14A	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,94107899	NA
5	CDH5	MYCT1	ROBO4	EMCN	KDR	NA	NA	NA	NA	NA	0,94106672	NA
6	MYCT1	CLEC14A	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94104603	NA
5	CLEC14A	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	0,94100723	NA
5	MYCT1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,94098989	NA
6	MYCT1	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94098374	NA
6	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,94094931	NA
7	CDH5	CLEC14A	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,94094376	NA
5	CDH5	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,94092129	NA
5	CDH5	MYCT1	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	0,94090241	NA
7	CDH5	MYCT1	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,94086709	NA

4	MYCT1	CLEC14A	ROBO4	ESAM	NA	NA	NA	NA	NA	NA	0,94086257	NA
7	CDH5	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	0,94085966	NA
5	CDH5	CLEC14A	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	0,94081921	NA
5	CDH5	MYCT1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94066588	NA
6	CLEC14A	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,94066307	NA
6	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,94064642	NA
5	CDH5	MYCT1	CLEC14A	ESAM	KDR	NA	NA	NA	NA	NA	0,94062656	NA
7	CDH5	MYCT1	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	0,94059495	NA
4	MYCT1	ROBO4	EMCN	VWF	NA	NA	NA	NA	NA	NA	0,94057483	NA
6	CDH5	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,94055378	NA
6	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,94054473	NA
5	MYCT1	CLEC14A	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	0,94053921	NA
6	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	0,94051673	NA
5	ROBO4	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,94049841	NA
6	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,94049702	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	0,94042168	NA
6	CDH5	MYCT1	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,9404009	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	0,94026191	NA
6	CDH5	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,94022258	NA
5	MYCT1	CLEC14A	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,94021993	NA
6	CDH5	CLEC14A	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,94021856	NA
6	CLEC14A	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	0,94021791	NA
5	MYCT1	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	0,94021633	NA
7	CDH5	CLEC14A	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	0,94010303	NA
6	CDH5	MYCT1	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	0,93997584	NA
5	MYCT1	CLEC14A	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,9399549	NA
5	CDH5	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	0,93995074	NA
4	CDH5	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,93992067	NA
5	CDH5	MYCT1	ROBO4	VWF	ESAM	NA	NA	NA	NA	NA	0,93990625	NA

6	EMCN	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,9398754	NA
5	CDH5	MYCT1	CLEC14A	MMRN2	KDR	NA	NA	NA	NA	NA	0,93986516	NA
6	CDH5	MYCT1	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,939838	NA
7	CDH5	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	0,93980947	NA
7	CDH5	MYCT1	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	0,93980926	NA
4	CDH5	MYCT1	VWF	KDR	NA	NA	NA	NA	NA	NA	0,93977811	NA
6	CDH5	MYCT1	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,93975886	NA
6	MYCT1	CLEC14A	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93974923	NA
6	MYCT1	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,9397199	NA
5	CLEC14A	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	0,93971869	NA
5	EMCN	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93970251	NA
4	MYCT1	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,9396854	NA
5	CDH5	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	0,93965662	NA
6	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93956401	NA
6	CLEC14A	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,93955078	NA
6	CDH5	MYCT1	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,9395469	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	0,93950292	NA
6	MYCT1	CLEC14A	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93948959	NA
5	ROBO4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,93948537	NA
6	CDH5	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,93946183	NA
4	CLEC14A	ROBO4	EMCN	ESAM	NA	NA	NA	NA	NA	NA	0,93945936	NA
6	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	NA	0,93945728	NA
5	MYCT1	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93944814	NA
6	CLEC14A	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93943628	NA
6	MYCT1	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,93939116	NA
6	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93938348	NA
5	CDH5	MYCT1	ROBO4	VWF	MMRN2	NA	NA	NA	NA	NA	0,93937139	NA
6	MYCT1	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,93926046	NA
4	CDH5	MYCT1	ROBO4	EMCN	NA	NA	NA	NA	NA	NA	0,93922208	NA

5	CDH5	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	0,93920463	NA
6	CDH5	CLEC14A	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	NA	0,93920014	NA
4	CDH5	MYCT1	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,93915528	NA
4	CLEC14A	EMCN	VWF	KDR	NA	NA	NA	NA	NA	NA	0,93908735	NA
6	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	NA	NA	NA	NA	0,93908356	NA
6	CDH5	CLEC14A	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,93908061	NA
5	ROBO4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,939021	NA
7	CDH5	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	0,9390128	NA
4	CDH5	CLEC14A	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	0,93889502	NA
5	CLEC14A	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93889447	NA
5	CLEC14A	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,93889245	NA
5	MYCT1	CLEC14A	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,938884	NA
4	MYCT1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,93886728	NA
6	CDH5	MYCT1	CLEC14A	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93886353	NA
4	CDH5	ROBO4	EMCN	ESAM	NA	NA	NA	NA	NA	NA	0,93884726	NA
6	MYCT1	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,93878674	NA
5	CLEC14A	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93877598	NA
6	ROBO4	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,93875325	NA
6	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93874529	NA
6	CDH5	CLEC14A	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93870292	NA
6	MYCT1	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,93869257	NA
6	CDH5	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,93865746	NA
6	CDH5	CLEC14A	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,93864846	NA
6	CDH5	MYCT1	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	NA	0,93862902	NA
6	MYCT1	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	0,93862423	NA
5	CDH5	CLEC14A	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	0,93854786	NA
4	MYCT1	CLEC14A	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,9385108	NA
6	CDH5	CLEC14A	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93849956	NA
5	ROBO4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93844647	NA

6	CDH5	MYCT1	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	NA	0,93837293	NA
5	MYCT1	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93836708	NA
6	CDH5	MYCT1	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,93836428	NA
5	MYCT1	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93834242	NA
4	CDH5	EMCN	VWF	KDR	NA	NA	NA	NA	NA	NA	0,93834009	NA
5	MYCT1	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,93828032	NA
6	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	NA	0,93825992	NA
4	CDH5	MYCT1	CLEC14A	MMRN2	NA	NA	NA	NA	NA	NA	0,93825761	NA
6	CDH5	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,9382549	NA
4	CLEC14A	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,93822211	NA
5	MYCT1	CLEC14A	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,93821964	NA
5	MYCT1	CLEC14A	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	0,93817284	NA
6	CDH5	MYCT1	CLEC14A	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93816848	NA
4	MYCT1	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93816597	NA
5	CDH5	MYCT1	ROBO4	MMRN2	KDR	NA	NA	NA	NA	NA	0,93812593	NA
6	ROBO4	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,93810408	NA
6	CDH5	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,93810085	NA
4	CLEC14A	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	0,93804797	NA
4	MYCT1	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93792024	NA
4	MYCT1	CLEC14A	ROBO4	KDR	NA	NA	NA	NA	NA	NA	0,93781745	NA
6	CDH5	MYCT1	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	0,93779768	NA
6	CDH5	CLEC14A	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93773639	NA
7	CDH5	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	0,9377159	NA
5	CDH5	MYCT1	CLEC14A	ELTD1	VWF	NA	NA	NA	NA	NA	0,93768218	NA
6	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,93767133	NA
5	CDH5	MYCT1	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	0,93766146	NA
4	MYCT1	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	0,93759428	NA
6	CDH5	CLEC14A	ROBO4	VWF	ESAM	KDR	NA	NA	NA	NA	0,93756059	NA
4	MYCT1	ROBO4	VWF	KDR	NA	NA	NA	NA	NA	NA	0,93751321	NA

6	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	KDR	NA	NA	NA	NA	0,93747045	NA
4	MYCT1	CLEC14A	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	0,93744774	NA
6	CDH5	CLEC14A	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,93744154	NA
6	CDH5	CLEC14A	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93738715	NA
6	ROBO4	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,93731653	NA
6	CDH5	CLEC14A	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93730268	NA
6	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93726227	NA
5	CDH5	CLEC14A	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	0,93718131	NA
6	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	KDR	NA	NA	NA	NA	0,93713796	NA
5	CDH5	MYCT1	ROBO4	ESAM	KDR	NA	NA	NA	NA	NA	0,93710581	NA
6	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	NA	0,93707606	NA
5	CDH5	MYCT1	CLEC14A	ELTD1	ESAM	NA	NA	NA	NA	NA	0,93707601	NA
5	CDH5	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93706356	NA
4	CLEC14A	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,9370607	NA
4	MYCT1	CLEC14A	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,93704459	NA
6	CDH5	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	0,93701774	NA
6	MYCT1	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93697641	NA
5	MYCT1	CLEC14A	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,93697145	NA
6	ROBO4	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93695372	NA
6	CDH5	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,93692188	NA
6	CDH5	MYCT1	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,93689083	NA
5	MYCT1	CLEC14A	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	0,93687591	NA
6	CDH5	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	0,936863	NA
4	CDH5	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	0,93686046	NA
6	CDH5	MYCT1	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	NA	0,93681211	NA
4	ROBO4	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93678282	NA
5	CLEC14A	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93669565	NA
5	MYCT1	CLEC14A	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	NA	0,93667404	NA
4	CDH5	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93660731	NA

6	CLEC14A	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,9365198	NA
6	CDH5	CLEC14A	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	NA	0,93650773	NA
5	MYCT1	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93646309	NA
6	CDH5	MYCT1	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,93644724	NA
5	CDH5	CLEC14A	ROBO4	MMRN2	KDR	NA	NA	NA	NA	NA	0,93644539	NA
4	CDH5	CLEC14A	EMCN	KDR	NA	NA	NA	NA	NA	NA	0,93644519	NA
4	MYCT1	CLEC14A	ROBO4	VWF	NA	NA	NA	NA	NA	NA	0,93627211	NA
5	MYCT1	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,93613241	NA
5	CLEC14A	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	0,93607046	NA
4	CDH5	MYCT1	CLEC14A	KDR	NA	NA	NA	NA	NA	NA	0,93605691	NA
6	CDH5	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93602754	NA
6	CLEC14A	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93599834	NA
4	CDH5	MYCT1	ROBO4	MMRN2	NA	NA	NA	NA	NA	NA	0,9359081	NA
4	CDH5	MYCT1	ROBO4	ESAM	NA	NA	NA	NA	NA	NA	0,93584874	NA
5	CDH5	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,93581061	NA
6	CDH5	CLEC14A	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93580872	NA
4	EMCN	VWF	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,93573639	NA
3	CDH5	MYCT1	CLEC14A	NA	NA	NA	NA	NA	NA	NA	0,9357346	NA
4	MYCT1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,93572045	NA
4	CDH5	MYCT1	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	0,93568046	NA
5	CLEC14A	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93564801	NA
5	CDH5	CLEC14A	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,93562782	NA
6	MYCT1	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93562262	NA
5	CDH5	CLEC14A	ROBO4	VWF	KDR	NA	NA	NA	NA	NA	0,93553721	NA
5	CLEC14A	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,93543609	NA
6	CDH5	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93541382	NA
6	MYCT1	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93524129	NA
5	CDH5	CLEC14A	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93516369	NA
5	CDH5	MYCT1	CLEC14A	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,93515621	NA

5	CDH5	CLEC14A	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,93515304	NA
5	CDH5	MYCT1	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,93514884	NA
6	CDH5	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93511062	NA
5	CLEC14A	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,93510461	NA
6	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,93509404	NA
5	CDH5	CLEC14A	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,93504814	NA
4	CDH5	MYCT1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,93504789	NA
6	CDH5	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93503684	NA
4	CDH5	ROBO4	EMCN	VWF	NA	NA	NA	NA	NA	NA	0,93500802	NA
6	CDH5	MYCT1	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,93498168	NA
4	MYCT1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93492886	NA
6	CDH5	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93492707	NA
5	EMCN	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93490878	NA
5	CLEC14A	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,93488248	NA
4	CDH5	MYCT1	ROBO4	VWF	NA	NA	NA	NA	NA	NA	0,93487829	NA
4	CDH5	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,93481776	NA
3	MYCT1	CLEC14A	ESAM	NA	NA	NA	NA	NA	NA	NA	0,9347536	NA
3	MYCT1	CLEC14A	VWF	NA	NA	NA	NA	NA	NA	NA	0,93474445	NA
5	CDH5	MYCT1	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	0,93468924	NA
5	CDH5	CLEC14A	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93463364	NA
6	CDH5	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	NA	0,93452996	NA
5	CDH5	CLEC14A	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	NA	0,9345167	NA
6	CDH5	MYCT1	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93447206	NA
5	MYCT1	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93444493	NA
5	CDH5	MYCT1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93441595	NA
3	MYCT1	CLEC14A	ROBO4	NA	NA	NA	NA	NA	NA	NA	0,93437255	NA
5	EMCN	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,93436416	NA
6	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93435666	NA
4	CLEC14A	ROBO4	EMCN	KDR	NA	NA	NA	NA	NA	NA	0,93433427	NA

5	CLEC14A	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,93432889	NA
5	MYCT1	CLEC14A	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,93421203	NA
3	CDH5	CLEC14A	EMCN	NA	NA	NA	NA	NA	NA	NA	0,9342094	NA
6	ROBO4	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93418239	NA
6	CDH5	MYCT1	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93417915	NA
5	MYCT1	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,934146	NA
5	ROBO4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93398669	NA
5	CDH5	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93395015	NA
5	MYCT1	CLEC14A	ROBO4	ELTD1	VWF	NA	NA	NA	NA	NA	0,9339096	NA
5	CDH5	CLEC14A	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	NA	0,93388406	NA
5	MYCT1	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,93385763	NA
3	MYCT1	EMCN	VWF	NA	NA	NA	NA	NA	NA	NA	0,93378856	NA
6	CDH5	CLEC14A	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	NA	0,93375528	NA
6	CDH5	CLEC14A	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,93369006	NA
4	CDH5	MYCT1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93366062	NA
4	MYCT1	ROBO4	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,93364923	NA
6	CDH5	MYCT1	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	NA	0,9335893	NA
4	ROBO4	EMCN	VWF	KDR	NA	NA	NA	NA	NA	NA	0,93356131	NA
5	CDH5	MYCT1	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93348552	NA
6	CDH5	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	0,93347599	NA
5	CLEC14A	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,93340404	NA
5	CLEC14A	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,93333455	NA
5	MYCT1	CLEC14A	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,93326583	NA
5	CDH5	CLEC14A	ROBO4	ESAM	KDR	NA	NA	NA	NA	NA	0,93324364	NA
5	MYCT1	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93323106	NA
5	CLEC14A	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93321843	NA
5	CDH5	CLEC14A	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,93316069	NA
5	CDH5	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93310811	NA
4	MYCT1	CLEC14A	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,93308031	NA

6	CDH5	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	0,93303266	NA
5	CDH5	MYCT1	CLEC14A	EMCN	ELTD1	NA	NA	NA	NA	NA	0,93302554	NA
4	MYCT1	ROBO4	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,93301655	NA
6	CDH5	MYCT1	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	0,93299499	NA
6	CDH5	MYCT1	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	NA	0,93299057	NA
4	CLEC14A	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,93296624	NA
4	EMCN	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93295376	NA
5	CLEC14A	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,93289453	NA
5	MYCT1	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93288383	NA
5	MYCT1	CLEC14A	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,93285047	NA
5	CDH5	MYCT1	CLEC14A	ROBO4	ELTD1	NA	NA	NA	NA	NA	0,93284647	NA
4	CLEC14A	ROBO4	EMCN	VWF	NA	NA	NA	NA	NA	NA	0,93274688	NA
4	CDH5	ROBO4	EMCN	KDR	NA	NA	NA	NA	NA	NA	0,93273761	NA
5	CDH5	CLEC14A	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,93271352	NA
5	CDH5	MYCT1	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,93269225	NA
5	CDH5	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,93268441	NA
6	CDH5	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	0,93267872	NA
3	MYCT1	VWF	KDR	NA	NA	NA	NA	NA	NA	NA	0,93267395	NA
3	CDH5	MYCT1	VWF	NA	NA	NA	NA	NA	NA	NA	0,93263951	NA
5	CLEC14A	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,93258919	NA
4	CDH5	CLEC14A	VWF	KDR	NA	NA	NA	NA	NA	NA	0,93257849	NA
5	CLEC14A	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93254988	NA
4	MYCT1	CLEC14A	EMCN	KDR	NA	NA	NA	NA	NA	NA	0,93243575	NA
4	ROBO4	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,93230593	NA
5	CDH5	MYCT1	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,9322134	NA
5	MYCT1	CLEC14A	ROBO4	ELTD1	KDR	NA	NA	NA	NA	NA	0,93221008	NA
5	CDH5	CLEC14A	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	0,93216195	NA
4	MYCT1	CLEC14A	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,93215965	NA
5	CDH5	MYCT1	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	0,932142	NA

4	MYCT1	ROBO4	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,93214093	NA
4	CLEC14A	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,93207179	NA
5	MYCT1	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,93203483	NA
5	CDH5	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	0,93201691	NA
6	CDH5	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	0,93201008	NA
5	CLEC14A	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	0,93199328	NA
5	MYCT1	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93187321	NA
5	CDH5	CLEC14A	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,93180365	NA
5	CDH5	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,93179993	NA
5	EMCN	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,93179329	NA
4	EMCN	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,931761	NA
3	MYCT1	VWF	ESAM	NA	NA	NA	NA	NA	NA	NA	0,93168828	NA
5	CDH5	CLEC14A	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,93166684	NA
4	CDH5	MYCT1	ROBO4	KDR	NA	NA	NA	NA	NA	NA	0,9316454	NA
4	MYCT1	CLEC14A	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,93161615	NA
5	CDH5	CLEC14A	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	NA	0,93159822	NA
5	CDH5	CLEC14A	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,93156479	NA
5	CDH5	MYCT1	CLEC14A	ELTD1	KDR	NA	NA	NA	NA	NA	0,93155625	NA
5	MYCT1	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,93148635	NA
5	CLEC14A	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,93142072	NA
4	CDH5	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,93139247	NA
5	ROBO4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,93133625	NA
5	MYCT1	CLEC14A	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	NA	0,93133261	NA
5	MYCT1	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	0,93130162	NA
5	CDH5	CLEC14A	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,9312113	NA
4	MYCT1	CLEC14A	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,93116444	NA
3	CDH5	EMCN	ESAM	NA	NA	NA	NA	NA	NA	NA	0,93115002	NA
5	CLEC14A	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93114244	NA
5	MYCT1	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	0,9311397	NA

4	CDH5	CLEC14A	ROBO4	MMRN2	NA	NA	NA	NA	NA	NA	0,93101394	NA
5	CDH5	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,93098951	NA
5	CLEC14A	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,93092276	NA
4	MYCT1	ROBO4	EMCN	KDR	NA	NA	NA	NA	NA	NA	0,93082714	NA
5	CLEC14A	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	0,93076405	NA
4	CDH5	CLEC14A	ROBO4	KDR	NA	NA	NA	NA	NA	NA	0,93062353	NA
4	CLEC14A	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,93062299	NA
4	CDH5	MYCT1	EMCN	KDR	NA	NA	NA	NA	NA	NA	0,93059091	NA
5	CDH5	CLEC14A	ROBO4	ELTD1	KDR	NA	NA	NA	NA	NA	0,93044424	NA
5	CLEC14A	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93033957	NA
3	CDH5	EMCN	VWF	NA	NA	NA	NA	NA	NA	NA	0,9302946	NA
4	ROBO4	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,93019789	NA
4	MYCT1	ROBO4	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,93018958	NA
5	CDH5	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93009591	NA
5	ELTD1	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93009364	NA
5	CDH5	ROBO4	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,93008294	NA
5	CDH5	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	0,93006964	NA
5	CLEC14A	ROBO4	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,93006686	NA
5	ROBO4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,93002825	NA
5	CDH5	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,93002656	NA
4	ROBO4	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92992758	NA
5	ROBO4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,92991506	NA
5	CDH5	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,92988114	NA
5	CDH5	MYCT1	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,9298473	NA
4	MYCT1	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92983908	NA
4	ROBO4	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92978806	NA
5	CDH5	MYCT1	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	NA	0,92970657	NA
5	CDH5	CLEC14A	ROBO4	VWF	MMRN2	NA	NA	NA	NA	NA	0,929601	NA
5	CDH5	MYCT1	ROBO4	ELTD1	VWF	NA	NA	NA	NA	NA	0,92946783	NA

4	CLEC14A	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92936512	NA
5	CDH5	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	0,92928173	NA
5	CDH5	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,92927042	NA
5	MYCT1	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,92924604	NA
4	CLEC14A	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,92921495	NA
5	CDH5	CLEC14A	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,92920784	NA
4	MYCT1	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,92914658	NA
5	MYCT1	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,92911787	NA
5	CDH5	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,92894481	NA
3	CLEC14A	EMCN	ESAM	NA	NA	NA	NA	NA	NA	NA	0,92885783	NA
5	EMCN	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,92885	NA
5	MYCT1	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,92879362	NA
4	CLEC14A	ROBO4	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92874387	NA
5	CDH5	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,9287166	NA
5	CDH5	MYCT1	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	0,92869485	NA
3	MYCT1	ROBO4	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,92863111	NA
4	CDH5	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92856487	NA
3	MYCT1	ROBO4	ESAM	NA	NA	NA	NA	NA	NA	NA	0,92846544	NA
4	MYCT1	CLEC14A	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,92843849	NA
3	CDH5	MYCT1	ESAM	NA	NA	NA	NA	NA	NA	NA	0,92835736	NA
3	CDH5	ROBO4	EMCN	NA	NA	NA	NA	NA	NA	NA	0,92833408	NA
5	CLEC14A	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,92833103	NA
4	CDH5	MYCT1	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92825876	NA
5	ROBO4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,92820068	NA
5	ROBO4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,92813352	NA
5	ROBO4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	0,92806498	NA
4	CDH5	CLEC14A	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,92805669	NA
3	MYCT1	CLEC14A	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,928026	NA
5	ROBO4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,92795046	NA

5	MYCT1	CLEC14A	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	0,92787602	NA
3	MYCT1	EMCN	ESAM	NA	NA	NA	NA	NA	NA	NA	0,92785521	NA
3	CDH5	MYCT1	ROBO4	NA	NA	NA	NA	NA	NA	NA	0,92784913	NA
4	CLEC14A	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	NA	0,9278248	NA
5	ROBO4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,92779503	NA
5	MYCT1	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,92779324	NA
5	CDH5	MYCT1	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	NA	0,9276863	NA
5	CDH5	CLEC14A	ROBO4	VWF	ESAM	NA	NA	NA	NA	NA	0,9275047	NA
5	CDH5	CLEC14A	ROBO4	ELTD1	VWF	NA	NA	NA	NA	NA	0,92749541	NA
5	CDH5	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,92721129	NA
4	CLEC14A	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,92720362	NA
4	CDH5	CLEC14A	ROBO4	ESAM	NA	NA	NA	NA	NA	NA	0,92715539	NA
4	CDH5	CLEC14A	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,92708528	NA
4	CDH5	MYCT1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92707231	NA
5	CLEC14A	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,92697187	NA
5	CDH5	MYCT1	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,92690631	NA
5	CDH5	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	0,92690507	NA
5	CDH5	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	0,92687592	NA
5	CDH5	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,9268044	NA
4	CLEC14A	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,92678331	NA
5	ROBO4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	0,92677554	NA
4	CDH5	CLEC14A	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92673654	NA
4	CDH5	CLEC14A	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	0,92664665	NA
3	CDH5	MYCT1	EMCN	NA	NA	NA	NA	NA	NA	NA	0,92660087	NA
4	EMCN	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,92657902	NA
5	CDH5	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	0,92650063	NA
4	MYCT1	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	NA	0,92641311	NA
5	CDH5	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,9263534	NA
4	CDH5	CLEC14A	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,92626714	NA

3	CLEC14A	ROBO4	EMCN	NA	NA	NA	NA	NA	NA	NA	0,92625132	NA
5	MYCT1	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,92614388	NA
5	CDH5	MYCT1	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,92613235	NA
4	CDH5	MYCT1	CLEC14A	ELTD1	NA	NA	NA	NA	NA	NA	0,92610793	NA
3	EMCN	VWF	ESAM	NA	NA	NA	NA	NA	NA	NA	0,92596318	NA
5	ROBO4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,92593938	NA
4	CDH5	ROBO4	VWF	KDR	NA	NA	NA	NA	NA	NA	0,92589297	NA
4	MYCT1	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,92582455	NA
4	CLEC14A	ROBO4	VWF	KDR	NA	NA	NA	NA	NA	NA	0,9257867	NA
4	EMCN	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92573038	NA
4	MYCT1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92555073	NA
5	CDH5	MYCT1	ROBO4	ELTD1	KDR	NA	NA	NA	NA	NA	0,92551205	NA
4	MYCT1	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92541434	NA
4	CDH5	ROBO4	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92540143	NA
3	MYCT1	CLEC14A	EMCN	NA	NA	NA	NA	NA	NA	NA	0,92536045	NA
4	MYCT1	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,92535867	NA
3	ROBO4	EMCN	ESAM	NA	NA	NA	NA	NA	NA	NA	0,9253562	NA
4	CLEC14A	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,92532689	NA
4	CDH5	VWF	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92529806	NA
5	CDH5	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	0,92526199	NA
3	CLEC14A	EMCN	VWF	NA	NA	NA	NA	NA	NA	NA	0,92519606	NA
4	CDH5	MYCT1	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,92515174	NA
4	CDH5	CLEC14A	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92515079	NA
4	CLEC14A	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92515046	NA
4	CLEC14A	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,92505816	NA
4	CDH5	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,92504846	NA
4	CDH5	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92503851	NA
5	CDH5	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	0,92492251	NA
4	CDH5	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,92489418	NA

4	CDH5	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,92482207	NA
4	CDH5	CLEC14A	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,92476615	NA
4	CLEC14A	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,92471646	NA
4	CLEC14A	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92456501	NA
4	MYCT1	CLEC14A	ROBO4	ELTD1	NA	NA	NA	NA	NA	NA	0,92455528	NA
4	CLEC14A	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,92449164	NA
4	EMCN	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,92449119	NA
5	CDH5	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	0,92446153	NA
3	EMCN	VWF	KDR	NA	NA	NA	NA	NA	NA	NA	0,92445937	NA
4	CLEC14A	VWF	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92442435	NA
3	MYCT1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,92421079	NA
5	CLEC14A	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	0,92412092	NA
5	CDH5	MYCT1	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	0,92407987	NA
4	CLEC14A	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92402425	NA
3	MYCT1	ROBO4	VWF	NA	NA	NA	NA	NA	NA	NA	0,92390186	NA
3	CDH5	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,9238916	NA
3	MYCT1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	0,92384024	NA
4	MYCT1	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,92377635	NA
4	CDH5	CLEC14A	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,9236679	NA
5	MYCT1	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	0,92365841	NA
5	MYCT1	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	0,92364192	NA
3	MYCT1	ROBO4	EMCN	NA	NA	NA	NA	NA	NA	NA	0,92362924	NA
4	CDH5	CLEC14A	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,92359238	NA
4	CLEC14A	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,92325022	NA
4	CDH5	CLEC14A	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,92320502	NA
4	CDH5	CLEC14A	ROBO4	ELTD1	NA	NA	NA	NA	NA	NA	0,92311178	NA
3	MYCT1	CLEC14A	KDR	NA	NA	NA	NA	NA	NA	NA	0,92295257	NA
3	CDH5	MYCT1	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,92293396	NA
4	ROBO4	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,9229223	NA

4	EMCN	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	NA	0,92291973	NA
3	ROBO4	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,92278891	NA
4	CLEC14A	ROBO4	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92275806	NA
3	CDH5	CLEC14A	ROBO4	NA	NA	NA	NA	NA	NA	NA	0,9224248	NA
4	CDH5	MYCT1	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,92242152	NA
4	ROBO4	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,9224022	NA
4	CLEC14A	ROBO4	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,92234001	NA
4	CDH5	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,92228712	NA
4	CLEC14A	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	0,92226426	NA
4	EMCN	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,92225642	NA
4	CDH5	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	NA	0,9221965	NA
4	MYCT1	CLEC14A	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,92216294	NA
4	ELTD1	VWF	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92214704	NA
4	MYCT1	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,92204619	NA
4	CDH5	CLEC14A	ROBO4	VWF	NA	NA	NA	NA	NA	NA	0,9217921	NA
4	MYCT1	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,92165963	NA
4	CDH5	ROBO4	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92161204	NA
4	ROBO4	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,92142294	NA
4	ELTD1	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,92137012	NA
4	CDH5	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,92130022	NA
3	EMCN	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	0,9211703	NA
4	CDH5	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,92097317	NA
3	CLEC14A	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,92088458	NA
4	ROBO4	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,92052169	NA
4	ELTD1	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,92051931	NA
4	ROBO4	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,9203009	NA
2	MYCT1	CLEC14A	NA	NA	NA	NA	NA	NA	NA	NA	0,92026271	NA
4	MYCT1	ROBO4	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,92025403	NA
4	CDH5	MYCT1	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,92006355	NA

4	CDH5	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,9199987	NA
4	MYCT1	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,91980033	NA
3	CDH5	CLEC14A	KDR	NA	NA	NA	NA	NA	NA	NA	0,9197831	NA
4	CDH5	ROBO4	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,91970008	NA
3	MYCT1	ROBO4	KDR	NA	NA	NA	NA	NA	NA	NA	0,9196892	NA
4	CLEC14A	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,91962215	NA
4	CDH5	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,91951205	NA
4	CDH5	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	0,91943131	NA
3	CDH5	VWF	KDR	NA	NA	NA	NA	NA	NA	NA	0,91934565	NA
4	CDH5	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,91929742	NA
4	ROBO4	VWF	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,9191966	NA
3	CDH5	CLEC14A	ESAM	NA	NA	NA	NA	NA	NA	NA	0,91919534	NA
4	CLEC14A	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91918063	NA
4	VWF	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91910602	NA
3	CDH5	CLEC14A	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,91909774	NA
4	MYCT1	CLEC14A	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	0,91895618	NA
3	CDH5	EMCN	KDR	NA	NA	NA	NA	NA	NA	NA	0,91880695	NA
4	ROBO4	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,91862566	NA
3	CLEC14A	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	NA	0,91860702	NA
4	CDH5	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91852751	NA
3	ROBO4	EMCN	VWF	NA	NA	NA	NA	NA	NA	NA	0,91848837	NA
4	ROBO4	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,91828265	NA
3	EMCN	VWF	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,91820108	NA
4	CDH5	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	0,91811193	NA
3	CLEC14A	VWF	KDR	NA	NA	NA	NA	NA	NA	NA	0,91804401	NA
4	ELTD1	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91798265	NA
3	CLEC14A	ROBO4	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,91780281	NA
4	ROBO4	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	NA	0,91769897	NA
3	CDH5	ROBO4	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,91759715	NA

4	CDH5	ROBO4	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,91750704	NA
4	CDH5	MYCT1	ROBO4	ELTD1	NA	NA	NA	NA	NA	NA	0,91749643	NA
3	CDH5	MYCT1	KDR	NA	NA	NA	NA	NA	NA	NA	0,91747047	NA
3	MYCT1	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,91724348	NA
4	CDH5	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,91692304	NA
2	MYCT1	VWF	NA	NA	NA	NA	NA	NA	NA	NA	0,91690376	NA
4	MYCT1	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91678096	NA
3	CLEC14A	EMCN	KDR	NA	NA	NA	NA	NA	NA	NA	0,91670863	NA
3	CLEC14A	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,91670177	NA
4	EMCN	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91662356	NA
4	CDH5	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91653079	NA
3	CLEC14A	ROBO4	KDR	NA	NA	NA	NA	NA	NA	NA	0,9165135	NA
4	CLEC14A	ROBO4	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,91650836	NA
4	CDH5	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,91624949	NA
4	CDH5	MYCT1	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	0,91621518	NA
3	CDH5	CLEC14A	VWF	NA	NA	NA	NA	NA	NA	NA	0,91600544	NA
4	CLEC14A	ROBO4	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,91594231	NA
4	MYCT1	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,91584721	NA
3	ROBO4	EMCN	KDR	NA	NA	NA	NA	NA	NA	NA	0,91555621	NA
4	CDH5	ROBO4	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,91553749	NA
3	CDH5	CLEC14A	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,91553436	NA
4	ROBO4	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	NA	0,91543479	NA
4	ROBO4	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	0,91527889	NA
4	MYCT1	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	0,91509437	NA
4	MYCT1	ROBO4	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,91486279	NA
4	CDH5	ROBO4	ELTD1	VWF	NA	NA	NA	NA	NA	NA	0,9146149	NA
4	CDH5	MYCT1	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,91459786	NA
4	EMCN	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	0,91453956	NA
3	CDH5	ROBO4	KDR	NA	NA	NA	NA	NA	NA	NA	0,91452826	NA

4	CLEC14A	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,91450867	NA
4	ROBO4	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,91401332	NA
4	ROBO4	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,91371236	NA
4	MYCT1	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	0,91351631	NA
4	ROBO4	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	0,9131418	NA
3	CDH5	ROBO4	ESAM	NA	NA	NA	NA	NA	NA	NA	0,91312984	NA
2	CDH5	CLEC14A	NA	NA	NA	NA	NA	NA	NA	NA	0,91245826	NA
3	MYCT1	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,91237687	NA
2	CDH5	MYCT1	NA	NA	NA	NA	NA	NA	NA	NA	0,91233465	NA
2	MYCT1	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,91191026	NA
3	EMCN	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,91179525	NA
3	MYCT1	ELTD1	VWF	NA	NA	NA	NA	NA	NA	NA	0,9117497	NA
4	CLEC14A	ROBO4	VWF	ESAM	NA	NA	NA	NA	NA	NA	0,91158058	NA
3	ROBO4	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	0,91139928	NA
3	ELTD1	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	0,91128304	NA
3	MYCT1	CLEC14A	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,91120688	NA
3	CDH5	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	0,91103082	NA
3	MYCT1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	0,91097175	NA
2	MYCT1	ROBO4	NA	NA	NA	NA	NA	NA	NA	NA	0,91089719	NA
3	ROBO4	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	0,9106965	NA
2	CDH5	EMCN	NA	NA	NA	NA	NA	NA	NA	NA	0,91067285	NA
3	ROBO4	VWF	KDR	NA	NA	NA	NA	NA	NA	NA	0,91044543	NA
3	CDH5	VWF	ESAM	NA	NA	NA	NA	NA	NA	NA	0,91013186	NA
3	CLEC14A	ELTD1	VWF	NA	NA	NA	NA	NA	NA	NA	0,91009358	NA
3	CLEC14A	ELTD1	KDR	NA	NA	NA	NA	NA	NA	NA	0,90974476	NA
3	CLEC14A	ROBO4	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,90913436	NA
3	ELTD1	VWF	KDR	NA	NA	NA	NA	NA	NA	NA	0,9089695	NA
3	VWF	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	0,90892549	NA
3	CDH5	VWF	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,90881077	NA

3	CLEC14A	ROBO4	ESAM	NA	NA	NA	NA	NA	NA	NA	0,90881042	NA
3	CLEC14A	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	0,90877322	NA
3	CDH5	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	NA	0,90871893	NA
3	MYCT1	EMCN	KDR	NA	NA	NA	NA	NA	NA	NA	0,90863889	NA
3	CDH5	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	0,90858666	NA
3	VWF	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,90852806	NA
3	EMCN	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	0,90830944	NA
3	MYCT1	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	NA	0,90824147	NA
4	MYCT1	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	NA	0,90819825	NA
3	CDH5	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,90750458	NA
3	CDH5	ROBO4	VWF	NA	NA	NA	NA	NA	NA	NA	0,9074924	NA
3	CDH5	ELTD1	VWF	NA	NA	NA	NA	NA	NA	NA	0,90732163	NA
3	ROBO4	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,90719958	NA
3	EMCN	ELTD1	VWF	NA	NA	NA	NA	NA	NA	NA	0,90709586	NA
3	CLEC14A	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	0,90689791	NA
3	CDH5	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,90668723	NA
3	ELTD1	VWF	ESAM	NA	NA	NA	NA	NA	NA	NA	0,90662586	NA
3	EMCN	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	NA	0,9066257	NA
3	CLEC14A	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,90631056	NA
3	CDH5	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,90515981	NA
3	ELTD1	VWF	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,90455281	NA
3	MYCT1	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,90437475	NA
3	CLEC14A	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,90433347	NA
3	ROBO4	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	NA	0,9034972	NA
3	ROBO4	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,90348252	NA
3	CDH5	MYCT1	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,90285149	NA
3	CDH5	ROBO4	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,90276478	NA
3	EMCN	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,90172161	NA
3	CDH5	ELTD1	KDR	NA	NA	NA	NA	NA	NA	NA	0,90158305	NA

2	EMCN	VWF	NA	NA	NA	NA	NA	NA	NA	NA	0,9015645	NA
3	ELTD1	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	0,9013759	NA
2	EMCN	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,9011035	NA
2	CDH5	ROBO4	NA	NA	NA	NA	NA	NA	NA	NA	0,90091545	NA
3	CLEC14A	VWF	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,90021093	NA
3	ELTD1	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,90019699	NA
3	MYCT1	ROBO4	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,8997477	NA
3	ROBO4	VWF	MMRN2	NA	NA	NA	NA	NA	NA	NA	0,89931522	NA
3	CLEC14A	VWF	ESAM	NA	NA	NA	NA	NA	NA	NA	0,89920602	NA
3	ROBO4	ELTD1	KDR	NA	NA	NA	NA	NA	NA	NA	0,89895552	NA
3	ROBO4	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,89855208	NA
2	MYCT1	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	0,89827157	NA
2	CLEC14A	EMCN	NA	NA	NA	NA	NA	NA	NA	NA	0,89821565	NA
2	ROBO4	EMCN	NA	NA	NA	NA	NA	NA	NA	NA	0,89815234	NA
3	MMRN2	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	0,89755214	NA
3	CLEC14A	ROBO4	VWF	NA	NA	NA	NA	NA	NA	NA	0,89748337	NA
3	VWF	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	0,89739321	NA
3	ROBO4	ELTD1	VWF	NA	NA	NA	NA	NA	NA	NA	0,89614154	NA
2	CDH5	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,89604425	NA
2	CDH5	VWF	NA	NA	NA	NA	NA	NA	NA	NA	0,89486425	NA
3	MYCT1	ELTD1	KDR	NA	NA	NA	NA	NA	NA	NA	0,89457256	NA
2	CDH5	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	0,894274	NA
3	ROBO4	VWF	ESAM	NA	NA	NA	NA	NA	NA	NA	0,89402575	NA
2	CLEC14A	ROBO4	NA	NA	NA	NA	NA	NA	NA	NA	0,89384616	NA
3	EMCN	ELTD1	KDR	NA	NA	NA	NA	NA	NA	NA	0,89366594	NA
2	ROBO4	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	0,89333345	NA
2	VWF	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,89312099	NA
2	CLEC14A	ELTD1	NA	NA	NA	NA	NA	NA	NA	NA	0,89182554	NA
2	CDH5	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,89099562	NA

3	MYCT1	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	NA	0,89057525	NA
2	EMCN	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	0,88884145	NA
2	MYCT1	EMCN	NA	NA	NA	NA	NA	NA	NA	NA	0,88766629	NA
2	CLEC14A	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,88630496	NA
2	ROBO4	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,88538769	NA
2	MYCT1	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,88482122	NA
2	CLEC14A	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	0,88465989	NA
2	ELTD1	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,88347355	NA
2	CDH5	ELTD1	NA	NA	NA	NA	NA	NA	NA	NA	0,88266272	NA
2	CLEC14A	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,88175597	NA
2	ELTD1	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	0,88150174	NA
2	ROBO4	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,88064887	NA
2	EMCN	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,8797142	NA
2	ELTD1	VWF	NA	NA	NA	NA	NA	NA	NA	NA	0,87860586	NA
2	MMRN2	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,87518214	NA
2	CLEC14A	VWF	NA	NA	NA	NA	NA	NA	NA	NA	0,8736913	NA
2	MMRN2	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,8719394	NA
2	ROBO4	ELTD1	NA	NA	NA	NA	NA	NA	NA	NA	0,87144527	NA
1	CDH5	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,87032191	NA
2	VWF	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	0,87020244	NA
2	VWF	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	0,86980472	NA
2	ELTD1	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,86904557	NA
2	ROBO4	VWF	NA	NA	NA	NA	NA	NA	NA	NA	0,86726902	NA
2	MYCT1	ELTD1	NA	NA	NA	NA	NA	NA	NA	NA	0,86603126	NA
2	EMCN	ELTD1	NA	NA	NA	NA	NA	NA	NA	NA	0,8649421	NA
2	ESAM	KDR	NA	NA	NA	NA	NA	NA	NA	NA	0,86451601	NA
1	MYCT1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,85302037	NA
1	CLEC14A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,84250894	NA
1	ROBO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,83326816	NA

1	EMCN	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,82244472	NA
1	ELTD1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,81000417	NA
1	VWF	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,80805535	NA
1	MMRN2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,80739173	NA
1	ESAM	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,80377646	NA
1	KDR	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,79939504	NA

Combination of genes for identification of fibroblasts

8	COL3A1	DCN	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	0,98748089	NA
7	COL3A1	DCN	COL6A2	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	0,98703574	NA
7	COL3A1	DCN	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	0,98687787	NA
6	COL3A1	DCN	COL6A2	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	0,98677766	NA
7	DCN	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	0,98672411	NA
6	COL3A1	DCN	COL6A2	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,98630978	NA
6	DCN	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	0,98515393	NA
6	DCN	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,98490474	NA
5	COL3A1	DCN	COL6A2	GREM1	COL6A1	NA	NA	NA	NA	NA	0,98489106	NA
7	COL3A1	DCN	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	0,98441795	NA
5	COL3A1	DCN	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	0,98385045	NA
7	COL3A1	DCN	COL6A2	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	0,98367252	NA
5	DCN	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	0,98354233	NA
6	COL3A1	DCN	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	0,98335192	NA
6	COL3A1	DCN	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,98333136	NA
6	DCN	COL6A2	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,98207789	NA
6	COL3A1	DCN	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,98139739	NA
5	DCN	COL6A2	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	0,9808085	NA
6	DCN	COL6A2	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	0,98064696	NA

5	COL3A1	DCN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,98055719	NA
7	COL3A1	DCN	COL6A2	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	0,98045963	NA
4	COL3A1	DCN	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,97967789	NA
6	COL3A1	DCN	COL6A2	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	0,97900842	NA
5	DCN	COL6A2	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	NA	0,97886714	NA
6	COL3A1	DCN	COL6A2	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	0,97847942	NA
5	COL3A1	DCN	COL6A2	GREM1	PAMR1	NA	NA	NA	NA	NA	0,97833602	NA
5	DCN	COL6A2	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	NA	0,97732209	NA
5	DCN	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,97716968	NA
4	DCN	COL6A2	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,97708011	NA
6	DCN	COL6A2	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,97686705	NA
5	COL3A1	DCN	COL6A2	TAGLN	GREM1	NA	NA	NA	NA	NA	0,97662971	NA
5	DCN	COL6A2	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	NA	0,97653712	NA
4	DCN	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	0,97628668	NA
6	COL3A1	DCN	COL6A2	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	0,97627316	NA
6	COL3A1	DCN	COL6A2	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	0,97591219	NA
5	COL3A1	DCN	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	NA	0,97564524	NA
4	COL3A1	DCN	COL6A2	GREM1	NA	NA	NA	NA	NA	NA	0,9743702	NA
6	COL3A1	DCN	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	0,97431503	NA
4	COL3A1	DCN	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	0,97428815	NA
5	COL3A1	DCN	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	0,97412009	NA
4	DCN	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,97352977	NA
5	DCN	COL6A2	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,97286973	NA
4	DCN	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,97133746	NA
7	COL3A1	DCN	COL6A2	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	0,97114255	NA
6	COL3A1	DCN	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	0,97060549	NA
4	DCN	COL6A2	COL1A1	GREM1	NA	NA	NA	NA	NA	NA	0,97052176	NA
7	COL3A1	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	0,97046408	NA
6	COL3A1	DCN	COL6A2	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	0,97031481	NA

4	DCN	COL6A2	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	0,97027025	NA
5	DCN	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,96999158	NA
4	DCN	COL6A2	COL1A1	TAGLN	NA	NA	NA	NA	NA	NA	0,96963305	NA
5	COL3A1	DCN	COL6A2	COL1A1	GREM1	NA	NA	NA	NA	NA	0,96943131	NA
5	COL3A1	DCN	COL6A2	TAGLN	COL6A1	NA	NA	NA	NA	NA	0,96914521	NA
6	COL3A1	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,96892682	NA
5	DCN	COL6A2	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	0,96888356	NA
6	COL3A1	DCN	COL6A2	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	0,96820773	NA
5	DCN	COL6A2	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	0,96791127	NA
3	DCN	COL6A2	GREM1	NA	NA	NA	NA	NA	NA	NA	0,96768148	NA
5	DCN	COL6A2	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	0,96767375	NA
4	COL3A1	DCN	COL6A2	TAGLN	NA	NA	NA	NA	NA	NA	0,96654728	NA
6	COL3A1	COL6A2	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,96637394	NA
6	DCN	COL6A2	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	0,96606262	NA
5	COL3A1	DCN	COL6A2	COL1A1	TAGLN	NA	NA	NA	NA	NA	0,96591671	NA
4	DCN	COL6A2	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,96570927	NA
6	COL3A1	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	0,96567334	NA
5	DCN	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	0,96516787	NA
5	COL3A1	DCN	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	NA	0,96504063	NA
5	COL3A1	COL6A2	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	0,96467781	NA
5	COL3A1	DCN	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,96448792	NA
6	COL3A1	DCN	COL6A2	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	0,96418565	NA
5	DCN	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,96387452	NA
3	DCN	COL1A1	TAGLN	NA	NA	NA	NA	NA	NA	NA	0,96322604	NA
5	COL3A1	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	0,9630006	NA
6	COL3A1	COL6A2	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,96295163	NA
5	COL3A1	DCN	COL6A2	TAGLN	PAMR1	NA	NA	NA	NA	NA	0,96223877	NA
6	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	0,9619288	NA
5	COL3A1	COL6A2	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,96175541	NA

5	COL3A1	DCN	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	0,96168604	NA
5	COL3A1	DCN	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	NA	0,96130763	NA
4	DCN	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	0,96120814	NA
6	COL3A1	COL6A2	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	0,96104721	NA
3	DCN	COL6A2	TAGLN	NA	NA	NA	NA	NA	NA	NA	0,96088165	NA
3	COL3A1	DCN	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,96071581	NA
5	COL3A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,96035866	NA
5	COL3A1	DCN	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,96024725	NA
6	COL3A1	DCN	COL6A2	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	0,95990086	NA
3	DCN	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,95952027	NA
4	COL3A1	DCN	COL1A1	TAGLN	NA	NA	NA	NA	NA	NA	0,95935173	NA
4	COL3A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,9591337	NA
5	COL3A1	DCN	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	0,95890371	NA
5	COL3A1	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,95864066	NA
3	COL3A1	DCN	COL6A2	NA	NA	NA	NA	NA	NA	NA	0,95859533	NA
5	COL6A2	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	0,95847694	NA
4	DCN	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	0,95845269	NA
4	COL3A1	DCN	COL1A1	COL6A1	NA	NA	NA	NA	NA	NA	0,95830455	NA
5	COL3A1	DCN	COL6A2	COL1A1	COL6A1	NA	NA	NA	NA	NA	0,95772678	NA
4	COL3A1	COL6A2	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,9576986	NA
5	COL3A1	DCN	COL6A2	COL1A1	PAMR1	NA	NA	NA	NA	NA	0,95758413	NA
4	COL3A1	DCN	COL6A2	COL6A1	NA	NA	NA	NA	NA	NA	0,95744538	NA
4	COL3A1	DCN	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	0,95701642	NA
3	DCN	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,95655887	NA
5	COL1A1	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,95629249	NA
5	COL3A1	COL6A2	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	NA	0,95558815	NA
3	DCN	COL6A2	COL1A1	NA	NA	NA	NA	NA	NA	NA	0,95522341	NA
4	DCN	COL6A2	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	0,95493096	NA
4	DCN	COL6A2	COL1A1	PAMR1	NA	NA	NA	NA	NA	NA	0,95489213	NA

5	COL3A1	COL6A2	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	0,95423575	NA
5	COL3A1	COL6A2	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	NA	0,95406496	NA
4	COL3A1	DCN	COL6A2	PAMR1	NA	NA	NA	NA	NA	NA	0,95400579	NA
3	DCN	COL1A1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,95393406	NA
2	DCN	COL6A2	NA	NA	NA	NA	NA	NA	NA	NA	0,95374738	NA
3	COL3A1	DCN	TAGLN	NA	NA	NA	NA	NA	NA	NA	0,95348528	NA
4	COL3A1	DCN	COL6A2	COL1A1	NA	NA	NA	NA	NA	NA	0,95309931	NA
5	COL3A1	COL6A2	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	NA	0,9524695	NA
4	COL3A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,9524691	NA
4	COL3A1	DCN	COL1A1	GREM1	NA	NA	NA	NA	NA	NA	0,95243674	NA
5	COL3A1	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,95237538	NA
4	COL1A1	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,95232737	NA
5	COL6A2	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	0,95223474	NA
5	COL3A1	DCN	COL6A2	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,95190983	NA
4	DCN	COL6A2	COL1A1	COL6A1	NA	NA	NA	NA	NA	NA	0,9515609	NA
4	DCN	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,95136168	NA
4	COL3A1	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	0,95033335	NA
4	DCN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,95014847	NA
4	COL3A1	COL6A2	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	0,94994314	NA
4	COL3A1	COL6A2	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,94988879	NA
5	COL6A2	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,94982521	NA
5	DCN	COL6A2	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,94930077	NA
4	COL3A1	DCN	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,94886323	NA
4	COL3A1	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,94880297	NA
6	COL3A1	COL6A2	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	0,94840492	NA
3	COL3A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,94781316	NA
3	COL3A1	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,94776681	NA
4	COL3A1	DCN	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,94764475	NA
4	DCN	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,94714053	NA

5	COL3A1	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	0,94663626	NA
5	COL3A1	COL6A2	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	0,94608589	NA
4	COL6A2	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	0,94595759	NA
4	COL3A1	DCN	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	0,94455151	NA
5	COL3A1	COL6A2	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	0,94421809	NA
4	COL3A1	DCN	COL1A1	PAMR1	NA	NA	NA	NA	NA	NA	0,94395132	NA
3	COL3A1	DCN	GREM1	NA	NA	NA	NA	NA	NA	NA	0,9438397	NA
4	COL6A2	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,94333321	NA
3	DCN	COL1A1	GREM1	NA	NA	NA	NA	NA	NA	NA	0,94328335	NA
4	COL6A2	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	0,94240516	NA
4	DCN	COL6A2	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	0,94237719	NA
4	COL3A1	COL6A2	COL1A1	GREM1	NA	NA	NA	NA	NA	NA	0,9416854	NA
3	COL3A1	COL6A2	GREM1	NA	NA	NA	NA	NA	NA	NA	0,94116806	NA
5	DCN	COL6A2	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,93979307	NA
4	COL3A1	COL6A2	COL1A1	TAGLN	NA	NA	NA	NA	NA	NA	0,9395262	NA
4	COL6A2	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,93929814	NA
5	COL6A2	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,9390932	NA
4	COL3A1	COL6A2	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	0,93865388	NA
3	COL3A1	DCN	COL1A1	NA	NA	NA	NA	NA	NA	NA	0,93835459	NA
3	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,93808014	NA
4	COL3A1	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	0,93754802	NA
4	COL1A1	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,93679432	NA
2	DCN	COL1A1	NA	NA	NA	NA	NA	NA	NA	NA	0,9352688	NA
3	COL3A1	COL6A2	TAGLN	NA	NA	NA	NA	NA	NA	NA	0,93491215	NA
4	COL3A1	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	0,93484612	NA
4	COL3A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,93432836	NA
5	COL3A1	COL6A2	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,93341743	NA
2	COL3A1	DCN	NA	NA	NA	NA	NA	NA	NA	NA	0,93285081	NA
4	COL6A2	COL1A1	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	0,93193611	NA

3	DCN	COL1A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,93151464	NA
4	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,93132447	NA
3	DCN	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	NA	0,9312344	NA
4	COL3A1	COL6A2	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	0,93080692	NA
3	DCN	COL6A2	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,93073444	NA
4	COL6A2	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	0,93066419	NA
3	COL6A2	COL1A1	TAGLN	NA	NA	NA	NA	NA	NA	NA	0,93049878	NA
5	COL6A2	COL1A1	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,93000607	NA
2	DCN	TAGLN	NA	NA	NA	NA	NA	NA	NA	NA	0,93000162	NA
4	COL3A1	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,92934086	NA
5	COL3A1	COL6A2	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	0,92908899	NA
3	COL3A1	COL1A1	TAGLN	NA	NA	NA	NA	NA	NA	NA	0,92899851	NA
4	COL3A1	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,92805326	NA
3	COL1A1	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,92792757	NA
3	COL6A2	COL1A1	GREM1	NA	NA	NA	NA	NA	NA	NA	0,92784297	NA
4	DCN	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,92631663	NA
4	COL1A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,92550187	NA
4	COL3A1	COL6A2	COL1A1	PAMR1	NA	NA	NA	NA	NA	NA	0,92509867	NA
4	DCN	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,92461277	NA
4	COL3A1	COL6A2	COL1A1	COL6A1	NA	NA	NA	NA	NA	NA	0,92429785	NA
4	COL3A1	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,9237134	NA
3	COL6A2	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,92307932	NA
2	COL3A1	COL6A1	NA	NA	NA	NA	NA	NA	NA	NA	0,92259382	NA
3	COL6A2	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	NA	0,92243674	NA
3	COL3A1	COL1A1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,92222688	NA
3	DCN	COL6A2	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,92203838	NA
4	COL6A2	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	0,92170291	NA
3	COL3A1	DCN	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,92099493	NA
4	COL6A2	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,92049732	NA

3	TAGLN	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,91841561	NA
3	COL3A1	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	NA	0,91824046	NA
2	DCN	COL6A1	NA	NA	NA	NA	NA	NA	NA	NA	0,91779458	NA
3	COL1A1	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	NA	0,91704338	NA
2	COL3A1	COL6A2	NA	NA	NA	NA	NA	NA	NA	NA	0,91641394	NA
2	COL3A1	TAGLN	NA	NA	NA	NA	NA	NA	NA	NA	0,9162866	NA
3	COL3A1	COL6A2	COL1A1	NA	NA	NA	NA	NA	NA	NA	0,91617706	NA
2	COL1A1	TAGLN	NA	NA	NA	NA	NA	NA	NA	NA	0,91482965	NA
3	COL3A1	COL1A1	GREM1	NA	NA	NA	NA	NA	NA	NA	0,91428844	NA
3	COL3A1	COL6A2	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,91354505	NA
3	COL3A1	COL6A2	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,912841	NA
3	COL1A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,91132601	NA
4	TAGLN	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,91055151	NA
4	DCN	COL6A2	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,90922088	NA
4	COL3A1	COL6A2	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,90802323	NA
3	COL3A1	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,90402113	NA
3	COL3A1	COL1A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,90303513	NA
3	COL3A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,90153196	NA
3	COL6A2	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,90116353	NA
3	COL3A1	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,89981241	NA
2	COL6A2	GREM1	NA	NA	NA	NA	NA	NA	NA	NA	0,89847996	NA
3	COL6A2	COL1A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,89821453	NA
2	DCN	GREM1	NA	NA	NA	NA	NA	NA	NA	NA	0,89738553	NA
2	COL6A2	TAGLN	NA	NA	NA	NA	NA	NA	NA	NA	0,89554505	NA
3	COL6A2	COL1A1	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,89469611	NA
4	COL6A2	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,89467184	NA
2	COL6A2	COL1A1	NA	NA	NA	NA	NA	NA	NA	NA	0,89376263	NA
3	DCN	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,89309876	NA
3	COL6A2	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	NA	0,89243121	NA

3	COL1A1	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,89116446	NA
3	DCN	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,88976778	NA
2	COL3A1	COL1A1	NA	NA	NA	NA	NA	NA	NA	NA	0,88969214	NA
2	COL3A1	GREM1	NA	NA	NA	NA	NA	NA	NA	NA	0,88660876	NA
2	COL1A1	COL6A1	NA	NA	NA	NA	NA	NA	NA	NA	0,8834657	NA
1	COL3A1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,87959538	NA
2	TAGLN	COL6A1	NA	NA	NA	NA	NA	NA	NA	NA	0,87782839	NA
3	COL1A1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,8777193	NA
1	DCN	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,87602404	NA
2	COL1A1	GREM1	NA	NA	NA	NA	NA	NA	NA	NA	0,87369202	NA
4	COL6A2	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	0,87269023	NA
2	GREM1	COL6A1	NA	NA	NA	NA	NA	NA	NA	NA	0,87049248	NA
3	COL6A2	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,86802175	NA
3	GREM1	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,86166549	NA
3	DCN	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,86134462	NA
2	COL3A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	0,85837164	NA
1	COL6A2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,84251237	NA
2	TAGLN	GREM1	NA	NA	NA	NA	NA	NA	NA	NA	0,84231571	NA
3	TAGLN	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,84017605	NA
2	COL1A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	0,83976809	NA
1	COL1A1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,83626927	NA
3	TAGLN	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,82231654	NA
2	COL6A2	COL6A1	NA	NA	NA	NA	NA	NA	NA	NA	0,81599322	NA
1	TAGLN	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,80497058	NA
3	COL6A2	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	0,78720417	NA
2	DCN	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	0,7860957	NA
2	COL6A2	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	0,77993713	NA
2	GREM1	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	0,72514134	NA
2	TAGLN	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	0,72116192	NA

1	GREM1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,71888174	NA
1	COL6A1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,6911634	NA
2	COL6A1	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	0,58159652	NA
1	PAMR1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,08455272	NA

Combination of genes for identification of cells of monocytic origin

2	CSF1R	FPR3	NA	NA	NA	NA	NA	NA	NA	NA	0,87165335	0,9890985
3	ADAP2	FPR3	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,79500676	0,98865004
3	CSF1R	ADAP2	FPR3	NA	NA	NA	NA	NA	NA	NA	0,89320392	0,988532
4	CSF1R	ADAP2	FPR3	PLA2G7	NA	NA	NA	NA	NA	NA	0,88070275	0,98658863
2	FPR3	PLA2G7	NA	NA	NA	NA	NA	NA	NA	NA	0,6978311	0,98333583
3	CSF1R	FPR3	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,84348522	0,98287389
3	CSF1R	FPR3	KYNU	NA	NA	NA	NA	NA	NA	NA	0,85697068	0,98050743
5	CSF1R	ADAP2	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,87708908	0,97966598
2	CSF1R	ADAP2	NA	NA	NA	NA	NA	NA	NA	NA	0,86106378	0,97909297
4	CSF1R	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,83666996	0,97869136
4	CSF1R	ADAP2	FPR3	KYNU	NA	NA	NA	NA	NA	NA	0,89137636	0,97738861
3	CSF1R	ADAP2	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,89301648	0,97694438
3	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	NA	0,70257538	0,97569667
4	ADAP2	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,79222991	0,97562069
2	ADAP2	PLA2G7	NA	NA	NA	NA	NA	NA	NA	NA	0,76325543	0,97474965
1	CSF1R	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,80084571	0,97451763
5	CSF1R	ADAP2	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	NA	0,90713273	0,96983322
4	CSF1R	ADAP2	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,88572286	0,96919054
2	CSF1R	PLA2G7	NA	NA	NA	NA	NA	NA	NA	NA	0,838643	0,96903113
4	CSF1R	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	0,88163015	0,96705239
3	CSF1R	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	NA	0,82363724	0,96490587

6	CSF1R	ADAP2	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	0,9047556	0,96417377
5	CSF1R	ADAP2	RASSF4	FPR3	PLA2G7	NA	NA	NA	NA	NA	0,96346089	0,96405942
3	CSF1R	ADAP2	KYNU	NA	NA	NA	NA	NA	NA	NA	0,87490749	0,9636965
5	CSF1R	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,87627421	0,96226059
4	CSF1R	ADAP2	FPR3	TFEC	NA	NA	NA	NA	NA	NA	0,91862941	0,96137073
4	CSF1R	ADAP2	RASSF4	FPR3	NA	NA	NA	NA	NA	NA	0,96106023	0,9610462
2	CSF1R	KYNU	NA	NA	NA	NA	NA	NA	NA	NA	0,8000538	0,96090087
4	CSF1R	ADAP2	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	0,9249639	0,96063761
6	CSF1R	ADAP2	RASSF4	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	0,96360464	0,96058524
4	ADAP2	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	0,8415891	0,95952886
3	ADAP2	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	NA	0,75753273	0,95876217
3	CSF1R	FPR3	TFEC	NA	NA	NA	NA	NA	NA	NA	0,90463501	0,95856471
1	PLA2G7	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,5376277	0,95661878
5	CSF1R	ADAP2	RASSF4	FPR3	KYNU	NA	NA	NA	NA	NA	0,96905506	0,95573502
4	CSF1R	RASSF4	FPR3	PLA2G7	NA	NA	NA	NA	NA	NA	0,95495888	0,95539042
3	CSF1R	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,89332119	0,95517274
6	CSF1R	ADAP2	RASSF4	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	0,9710615	0,95476541
5	CSF1R	ADAP2	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,92097386	0,95469869
5	CSF1R	ADAP2	FPR3	TFEC	KYNU	NA	NA	NA	NA	NA	0,91925853	0,95463094
5	CSF1R	RASSF4	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,9517327	0,95460707
3	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,77676194	0,95391603
4	ADAP2	RASSF4	FPR3	PLA2G7	NA	NA	NA	NA	NA	NA	0,93686931	0,95279024
4	CSF1R	FPR3	TFEC	KYNU	NA	NA	NA	NA	NA	NA	0,89760987	0,95256031
5	ADAP2	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,83886295	0,95216775
4	CSF1R	ADAP2	RASSF4	PLA2G7	NA	NA	NA	NA	NA	NA	0,96460973	0,95156684
7	CSF1R	ADAP2	RASSF4	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	0,97253139	0,95153358
4	CSF1R	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,88286922	0,95050792
2	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	NA	NA	0,57778973	0,94989903
3	CSF1R	ADAP2	TFEC	NA	NA	NA	NA	NA	NA	NA	0,90833099	0,94972407

3	ADAP2	FPR3	KYNU	NA	NA	NA	NA	NA	NA	NA	0,8167454	0,94965034
5	ADAP2	RASSF4	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,93249315	0,94920381
3	CSF1R	RASSF4	FPR3	NA	NA	NA	NA	NA	NA	NA	0,95895418	0,94916314
5	CSF1R	ADAP2	RASSF4	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,970852	0,94899215
2	FPR3	KYNU	NA	NA	NA	NA	NA	NA	NA	NA	0,70823929	0,9489645
5	CSF1R	RASSF4	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	NA	0,96418404	0,94843671
4	CSF1R	RASSF4	FPR3	KYNU	NA	NA	NA	NA	NA	NA	0,96332578	0,94815677
4	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,77612661	0,94815204
5	CSF1R	ADAP2	RASSF4	FPR3	TFEC	NA	NA	NA	NA	NA	0,96886588	0,9475721
2	ADAP2	FPR3	NA	NA	NA	NA	NA	NA	NA	NA	0,83502288	0,94682916
6	CSF1R	RASSF4	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	0,96339854	0,94658595
3	ADAP2	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,83683401	0,94534352
5	CSF1R	ADAP2	RASSF4	TFEC	PLA2G7	NA	NA	NA	NA	NA	0,97488781	0,94421261
3	CSF1R	ADAP2	RASSF4	NA	NA	NA	NA	NA	NA	NA	0,91396178	0,94375159
6	CSF1R	ADAP2	RASSF4	FPR3	TFEC	KYNU	NA	NA	NA	NA	0,97712758	0,9436109
2	CSF1R	TFEC	NA	NA	NA	NA	NA	NA	NA	NA	0,88053612	0,94238726
4	CSF1R	ADAP2	TFEC	KYNU	NA	NA	NA	NA	NA	NA	0,9200644	0,94210103
5	ADAP2	RASSF4	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	NA	0,94670945	0,9416126
6	CSF1R	ADAP2	RASSF4	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	0,9816282	0,9415775
4	CSF1R	ADAP2	RASSF4	KYNU	NA	NA	NA	NA	NA	NA	0,94436447	0,94009861
4	CSF1R	RASSF4	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,9525739	0,94008226
4	CSF1R	RASSF4	FPR3	TFEC	NA	NA	NA	NA	NA	NA	0,96626573	0,93906018
3	CSF1R	RASSF4	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,94869765	0,93896879
6	ADAP2	RASSF4	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	0,9453955	0,93855061
4	RASSF4	FPR3	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,90116119	0,93808954
4	ADAP2	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,83126553	0,93774644
1	ADAP2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,79466903	0,9375616
5	CSF1R	RASSF4	FPR3	TFEC	KYNU	NA	NA	NA	NA	NA	0,97258664	0,937114
3	CSF1R	TFEC	KYNU	NA	NA	NA	NA	NA	NA	NA	0,88354615	0,93605557

4	CSF1R	RASSF4	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	0,96335243	0,93533878
3	RASSF4	FPR3	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,90922117	0,93495258
5	CSF1R	RASSF4	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,9687047	0,93460084
3	ADAP2	RASSF4	FPR3	NA	NA	NA	NA	NA	NA	NA	0,95738414	0,93429048
4	CSF1R	ADAP2	RASSF4	TFEC	NA	NA	NA	NA	NA	NA	0,93838817	0,93363118
2	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	NA	NA	0,71513867	0,93302004
3	ADAP2	RASSF4	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,93214072	0,93236046
4	ADAP2	RASSF4	FPR3	KYNU	NA	NA	NA	NA	NA	NA	0,95629549	0,93191512
4	ADAP2	RASSF4	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,9329197	0,93144735
5	CSF1R	ADAP2	RASSF4	TFEC	KYNU	NA	NA	NA	NA	NA	0,96280022	0,93071475
4	RASSF4	FPR3	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	0,9251673	0,93001398
5	RASSF4	FPR3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,92158396	0,92995861
3	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	NA	0,72158999	0,92859415
3	CSF1R	RASSF4	KYNU	NA	NA	NA	NA	NA	NA	NA	0,91766392	0,92719649
4	ADAP2	RASSF4	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	0,94572755	0,92582426
5	ADAP2	RASSF4	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	0,94972994	0,92429187
2	CSF1R	RASSF4	NA	NA	NA	NA	NA	NA	NA	NA	0,87870297	0,92393834
4	CSF1R	RASSF4	TFEC	KYNU	NA	NA	NA	NA	NA	NA	0,94583934	0,9208856
3	CSF1R	RASSF4	TFEC	NA	NA	NA	NA	NA	NA	NA	0,91642923	0,92066165
4	ADAP2	RASSF4	FPR3	TFEC	NA	NA	NA	NA	NA	NA	0,95907943	0,92062717
4	ADAP2	FPR3	TFEC	KYNU	NA	NA	NA	NA	NA	NA	0,86391711	0,92039091
5	ADAP2	RASSF4	FPR3	TFEC	KYNU	NA	NA	NA	NA	NA	0,96275672	0,91942951
3	ADAP2	FPR3	TFEC	NA	NA	NA	NA	NA	NA	NA	0,87188675	0,91832319
2	ADAP2	KYNU	NA	NA	NA	NA	NA	NA	NA	NA	0,74723243	0,91713722
3	RASSF4	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	NA	0,87690005	0,91389502
4	RASSF4	TFEC	PLA2G7	KYNU	NA	NA	NA	NA	NA	NA	0,91105188	0,91181434
3	RASSF4	FPR3	KYNU	NA	NA	NA	NA	NA	NA	NA	0,93497686	0,91097564
3	RASSF4	TFEC	PLA2G7	NA	NA	NA	NA	NA	NA	NA	0,90672296	0,90884053
3	FPR3	TFEC	KYNU	NA	NA	NA	NA	NA	NA	NA	0,79807777	0,90617639

4	RASSF4	FPR3	TFEC	KYNU	NA	NA	NA	NA	NA	NA	0,94544605	0,90452392
2	RASSF4	PLA2G7	NA	NA	NA	NA	NA	NA	NA	NA	0,8756298	0,90443253
3	ADAP2	RASSF4	KYNU	NA	NA	NA	NA	NA	NA	NA	0,91840233	0,90321573
4	ADAP2	RASSF4	TFEC	KYNU	NA	NA	NA	NA	NA	NA	0,93984345	0,89857464
3	RASSF4	FPR3	TFEC	NA	NA	NA	NA	NA	NA	NA	0,94602168	0,89842372
2	ADAP2	RASSF4	NA	NA	NA	NA	NA	NA	NA	NA	0,88631608	0,89730474
3	ADAP2	TFEC	KYNU	NA	NA	NA	NA	NA	NA	NA	0,84241181	0,89609491
3	ADAP2	RASSF4	TFEC	NA	NA	NA	NA	NA	NA	NA	0,91358694	0,89599696
2	RASSF4	FPR3	NA	NA	NA	NA	NA	NA	NA	NA	0,94675446	0,89257464
2	ADAP2	TFEC	NA	NA	NA	NA	NA	NA	NA	NA	0,84831731	0,89228392
2	FPR3	TFEC	NA	NA	NA	NA	NA	NA	NA	NA	0,81415546	0,88745005
3	RASSF4	TFEC	KYNU	NA	NA	NA	NA	NA	NA	NA	0,89111598	0,8757384
1	KYNU	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,38453106	0,87542366
2	TFEC	KYNU	NA	NA	NA	NA	NA	NA	NA	NA	0,68382499	0,86709988
2	RASSF4	KYNU	NA	NA	NA	NA	NA	NA	NA	NA	0,84031596	0,86586948
2	RASSF4	TFEC	NA	NA	NA	NA	NA	NA	NA	NA	0,85405471	0,86091638
1	TFEC	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,67583743	0,83333397
1	RASSF4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,78691117	0,82073369
1	FPR3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,7399244	0,74317147

Combination of genes for identification of myeloid dendritic cells

6	CD1E	CLEC10A	CLIC2	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	0,99492686	NA
5	CD1E	CLEC10A	CLIC2	CD1A	WFDC21P	NA	NA	NA	NA	NA	0,98265982	NA
5	CD1E	CLIC2	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	NA	0,97491629	NA
5	CLEC10A	CLIC2	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	NA	0,97073779	NA
5	CD1E	CLEC10A	CLIC2	WFDC21P	CD1B	NA	NA	NA	NA	NA	0,96818309	NA
4	CD1E	CLIC2	CD1A	WFDC21P	NA	NA	NA	NA	NA	NA	0,96518248	NA

5	CD1E	CLEC10A	CLIC2	CD1A	CD1B	NA	NA	NA	NA	NA	0,96489986	NA
4	CD1E	CLIC2	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	0,95741774	NA
4	CLEC10A	CLIC2	CD1A	WFDC21P	NA	NA	NA	NA	NA	NA	0,95564947	NA
4	CD1E	CLEC10A	CD1A	WFDC21P	NA	NA	NA	NA	NA	NA	0,94998556	NA
4	CD1E	CLEC10A	CLIC2	CD1A	NA	NA	NA	NA	NA	NA	0,94950879	NA
4	CD1E	CLEC10A	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	0,9426883	NA
5	CD1E	CLEC10A	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	NA	0,94266831	NA
4	CLEC10A	CLIC2	CD1A	CD1B	NA	NA	NA	NA	NA	NA	0,94104583	NA
4	CD1E	CLIC2	CD1A	CD1B	NA	NA	NA	NA	NA	NA	0,93610342	NA
4	CD1E	CLEC10A	CLIC2	WFDC21P	NA	NA	NA	NA	NA	NA	0,92919889	NA
4	CLEC10A	CLIC2	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	0,92647595	NA
3	CD1E	CLEC10A	CD1A	NA	NA	NA	NA	NA	NA	NA	0,92383479	NA
3	CD1E	CLIC2	CD1A	NA	NA	NA	NA	NA	NA	NA	0,92375404	NA
3	CLEC10A	CLIC2	CD1A	NA	NA	NA	NA	NA	NA	NA	0,92292778	NA
4	CD1E	CLEC10A	CLIC2	CD1B	NA	NA	NA	NA	NA	NA	0,92116461	NA
4	CLIC2	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	0,92115525	NA
3	CD1E	CLEC10A	WFDC21P	NA	NA	NA	NA	NA	NA	NA	0,91684989	NA
3	CD1E	CLIC2	WFDC21P	NA	NA	NA	NA	NA	NA	NA	0,9089283	NA
4	CD1E	CLEC10A	CD1A	CD1B	NA	NA	NA	NA	NA	NA	0,90834445	NA
3	CLIC2	CD1A	WFDC21P	NA	NA	NA	NA	NA	NA	NA	0,90690228	NA
3	CD1E	CLEC10A	CD1B	NA	NA	NA	NA	NA	NA	NA	0,9006761	NA
3	CD1E	CLIC2	CD1B	NA	NA	NA	NA	NA	NA	NA	0,89761333	NA
3	CLEC10A	CD1A	WFDC21P	NA	NA	NA	NA	NA	NA	NA	0,89134337	NA
2	CLEC10A	CD1A	NA	NA	NA	NA	NA	NA	NA	NA	0,88554522	NA
3	CD1E	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	NA	0,88550803	NA
3	CD1E	CD1A	WFDC21P	NA	NA	NA	NA	NA	NA	NA	0,88095184	NA
4	CLEC10A	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	0,87802773	NA
3	CLIC2	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	NA	0,87697979	NA
3	CLIC2	CD1A	CD1B	NA	NA	NA	NA	NA	NA	NA	0,87303731	NA

3	CD1E	CLEC10A	CLIC2	NA	NA	NA	NA	NA	NA	NA	0,86992304	NA
3	CLEC10A	CLIC2	WFDC21P	NA	NA	NA	NA	NA	NA	NA	0,86947691	NA
3	CLEC10A	CLIC2	CD1B	NA	NA	NA	NA	NA	NA	NA	0,86831099	NA
2	CD1E	CLEC10A	NA	NA	NA	NA	NA	NA	NA	NA	0,86640606	NA
4	CD1E	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	0,86585424	NA
2	CD1E	WFDC21P	NA	NA	NA	NA	NA	NA	NA	NA	0,86094161	NA
3	CLEC10A	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	NA	0,86072267	NA
2	CLIC2	CD1A	NA	NA	NA	NA	NA	NA	NA	NA	0,85709565	NA
3	CLEC10A	CD1A	CD1B	NA	NA	NA	NA	NA	NA	NA	0,83811977	NA
2	CD1E	CD1A	NA	NA	NA	NA	NA	NA	NA	NA	0,83091078	NA
2	CD1E	CLIC2	NA	NA	NA	NA	NA	NA	NA	NA	0,82851032	NA
2	CD1E	CD1B	NA	NA	NA	NA	NA	NA	NA	NA	0,82105106	NA
2	CLEC10A	CD1B	NA	NA	NA	NA	NA	NA	NA	NA	0,8187688	NA
2	CLEC10A	WFDC21P	NA	NA	NA	NA	NA	NA	NA	NA	0,81583924	NA
1	CD1E	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,80113399	NA
3	CD1E	CD1A	CD1B	NA	NA	NA	NA	NA	NA	NA	0,79950859	NA
2	CLIC2	WFDC21P	NA	NA	NA	NA	NA	NA	NA	NA	0,79670845	NA
2	CLEC10A	CLIC2	NA	NA	NA	NA	NA	NA	NA	NA	0,78815671	NA
2	CLIC2	CD1B	NA	NA	NA	NA	NA	NA	NA	NA	0,78611242	NA
1	CLEC10A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,76505013	NA
2	CD1A	WFDC21P	NA	NA	NA	NA	NA	NA	NA	NA	0,71209564	NA
3	CD1A	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	NA	0,70913654	NA
1	CLIC2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,65793665	NA
2	WFDC21P	CD1B	NA	NA	NA	NA	NA	NA	NA	NA	0,65507291	NA
1	CD1A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,58904399	NA
2	CD1A	CD1B	NA	NA	NA	NA	NA	NA	NA	NA	0,57000304	NA
1	WFDC21P	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,56583254	NA
1	CD1B	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,41093552	NA

Combination of genes for identification of cells of neutrophils

2	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	NA	NA	0,49562347	0,99464199
3	NA	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,70025625	0,99316259
1	VNN3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,47602408	0,99309484
4	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,59500868	0,9926376
3	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,66672387	0,99243056
5	NA	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,74300917	0,99236083
2	NA	VNN3	NA	NA	NA	NA	NA	NA	NA	NA	0,75157864	0,99202913
3	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,52633156	0,99193577
4	NA	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,72847342	0,99189598
4	NA	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,81270778	0,99187086
1	CYP4F3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,41264532	0,99186557
3	CXCR2	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,63309894	0,99168841
3	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,56769155	0,99167315
4	NA	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,73482751	0,99159683
4	NA	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,71735678	0,99157952
5	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,71496494	0,991562
6	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,83128742	0,99151845
3	KCNJ15	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,82329073	0,99149094
2	NA	CYP4F3	NA	NA	NA	NA	NA	NA	NA	NA	0,65361118	0,9913653
3	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,57306049	0,99133749
5	CXCR2	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,68697221	0,99131095
4	CXCR2	NA	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,78924075	0,99127753
6	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,80909562	0,99125773
4	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,68005631	0,99115726
5	KCNJ15	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,84864837	0,99110223
5	CXCR2	NA	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,8007367	0,99110161

4	KCNJ15	NA	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,84761446	0,99109118
6	KCNJ15	NA	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,88426252	0,99106533
5	NA	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,8248917	0,99098437
5	NA	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,81796651	0,99098425
3	NA	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,71590437	0,99090453
4	KCNJ15	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,83445705	0,99081147
4	CXCR2	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,67280044	0,99080103
5	NA	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,83124021	0,99064834
5	KCNJ15	NA	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,85759418	0,99059667
7	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	0,85597731	0,9905439
7	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	0,92577474	0,99046265
4	NA	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,79656462	0,99045427
4	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,70420012	0,99042814
6	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,75853108	0,99042417
3	NA	FCGR3B	VNN3	NA	NA	NA	NA	NA	NA	NA	0,81676382	0,9904189
4	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,70318126	0,99040072
3	NA	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,77185084	0,99039929
5	KCNJ15	NA	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,87588681	0,99037306
7	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	0,91615468	0,99037081
6	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,896285	0,99036747
4	KCNJ15	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,87580527	0,9903508
6	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,88666836	0,99032884
5	CXCR2	NA	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,83635652	0,99031178
5	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,89715372	0,99030864
5	CXCR2	NA	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,81032241	0,99029466
5	KCNJ15	NA	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,87577919	0,99026966
4	CXCR2	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,71979062	0,99025764
6	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	NA	0,85224093	0,99024013
4	KCNJ15	CXCR2	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,86929391	0,99022405

5	KCNJ15	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,8804988	0,99015459
5	CXCR2	NA	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,79690353	0,99013407
4	KCNJ15	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,84424966	0,99013101
3	NA	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,78661387	0,99012
2	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,53200447	0,99011539
5	KCNJ15	CXCR2	NA	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,88831792	0,99011413
6	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,90190197	0,9901051
4	CXCR2	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,67603087	0,99006422
4	CXCR2	NA	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	0,79951842	0,99002831
2	FCGR3B	VNN3	NA	NA	NA	NA	NA	NA	NA	NA	0,64948592	0,99000226
4	CXCR2	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,64989844	0,98999416
6	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	NA	NA	NA	NA	0,91098641	0,98998935
4	NA	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,82245978	0,98989503
4	NA	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	0,82272561	0,98985942
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	0,93502717	0,98982068
4	KCNJ15	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	NA	0,83859041	0,98980961
5	NA	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	0,86735977	0,98980457
6	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	NA	0,92157256	0,98978145
5	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,75084097	0,98977822
2	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	NA	NA	NA	0,62303304	0,98974805
3	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,66677854	0,98968327
6	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,83908826	0,98967299
7	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	NA	NA	NA	0,90688084	0,9896632
6	KCNJ15	CXCR2	NA	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,89412636	0,98964962
5	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,88069831	0,98964271
6	KCNJ15	NA	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	0,91981747	0,98962084
5	KCNJ15	CXCR2	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,87507039	0,98960829
3	CXCR2	NA	VNN3	NA	NA	NA	NA	NA	NA	NA	0,8482567	0,98960128
5	CXCR2	NA	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	0,8689723	0,98957132

6	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	0,85645437	0,98954278
3	KCNJ15	NA	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,81187958	0,9895375
6	KCNJ15	CXCR2	NA	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	0,91172316	0,98950201
5	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,72785047	0,98945189
6	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	0,90791548	0,98942681
2	KCNJ15	CYP4F3	NA	NA	NA	NA	NA	NA	NA	NA	0,78744764	0,98939205
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	0,93234305	0,98937711
2	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	NA	NA	0,53944218	0,98933493
5	KCNJ15	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,89353139	0,98932419
4	KCNJ15	NA	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	0,86471169	0,98932021
3	NA	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,67935574	0,98931814
5	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,88467673	0,98927519
5	KCNJ15	CXCR2	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,88647978	0,98927201
7	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	0,91093672	0,98922452
5	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	NA	NA	0,89143032	0,98921044
3	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,60203253	0,98920827
3	CXCR2	NA	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,76489412	0,98919825
5	KCNJ15	NA	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	0,88371283	0,98917237
4	KCNJ15	NA	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,80756758	0,98916869
3	CXCR2	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,65804633	0,98916021
4	NA	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,79616979	0,98913201
5	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,75195396	0,98912893
5	CXCR2	NA	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	NA	0,85134807	0,98907273
6	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	NA	NA	NA	NA	0,88763436	0,98907234
4	KCNJ15	NA	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,82629856	0,98901211
5	KCNJ15	CXCR2	NA	HAL	CYP4F3	NA	NA	NA	NA	NA	0,90466321	0,98897922
2	CXCR2	VNN3	NA	NA	NA	NA	NA	NA	NA	NA	0,69598594	0,98897317
6	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	NA	0,87757073	0,98894865
6	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	NA	NA	NA	NA	0,9037816	0,98893731

7	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	0,93008186	0,98892943
3	NA	HAL	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,8028427	0,98890431
3	KCNJ15	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,83390061	0,98890113
4	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,73444257	0,98882538
3	KCNJ15	NA	VNN3	NA	NA	NA	NA	NA	NA	NA	0,7893318	0,98881161
4	KCNJ15	NA	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	NA	0,87020617	0,98880948
1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,61632959	0,98879878
5	KCNJ15	NA	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	NA	0,85293536	0,98878821
6	KCNJ15	NA	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	NA	0,9174336	0,98875815
6	KCNJ15	CXCR2	NA	HAL	VNN3	CXCR1	NA	NA	NA	NA	0,91961573	0,98875349
4	CXCR2	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,72938377	0,98870818
5	KCNJ15	NA	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	NA	0,9138491	0,98869955
5	KCNJ15	NA	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,87794761	0,98868059
3	KCNJ15	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,804617	0,98867955
6	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	NA	NA	NA	NA	0,90423346	0,98857176
4	CXCR2	NA	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,85046836	0,9885631
4	KCNJ15	CXCR2	NA	CYP4F3	NA	NA	NA	NA	NA	NA	0,86231446	0,98853898
4	CXCR2	NA	FCGR3B	VNN3	NA	NA	NA	NA	NA	NA	0,82249887	0,98852048
3	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,68914121	0,98850803
4	KCNJ15	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,85263094	0,98842962
3	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,64274473	0,9884242
5	NA	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,79708393	0,98841249
2	CXCR2	CYP4F3	NA	NA	NA	NA	NA	NA	NA	NA	0,5880959	0,98839125
4	CXCR2	NA	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	NA	0,81616063	0,98838773
6	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	0,92608069	0,98832888
3	KCNJ15	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,84941405	0,98830617
4	KCNJ15	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,85772866	0,98830177
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	0,92508265	0,9882996
4	NA	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	NA	NA	0,86731865	0,98829092

4	KCNJ15	NA	FCGR3B	VNN3	NA	NA	NA	NA	NA	NA	0,84297122	0,98827893
4	KCNJ15	CXCR2	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	0,87841599	0,98827584
4	NA	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,78002779	0,98825031
4	KCNJ15	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,88593951	0,98824412
5	CXCR2	NA	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	NA	0,82653812	0,98823274
6	NA	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,86950965	0,9882151
4	KCNJ15	CXCR2	NA	VNN3	NA	NA	NA	NA	NA	NA	0,84677138	0,98820364
5	KCNJ15	CXCR2	NA	VNN3	CXCR1	NA	NA	NA	NA	NA	0,8578191	0,98820281
3	KCNJ15	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,83092286	0,98818801
2	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,45629978	0,98813493
3	KCNJ15	CXCR2	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,84541741	0,98812182
6	NA	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,80229722	0,98810505
5	CXCR2	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	0,77088741	0,98810082
5	KCNJ15	CXCR2	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	0,92016779	0,98808922
5	KCNJ15	CXCR2	NA	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,87132918	0,98807515
4	CXCR2	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	0,74220036	0,98807127
6	KCNJ15	NA	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,89406513	0,98805181
4	CXCR2	NA	HAL	VNN3	NA	NA	NA	NA	NA	NA	0,86156045	0,98796587
7	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,87271815	0,98794261
5	KCNJ15	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	NA	NA	0,90931464	0,98793958
4	CXCR2	NA	HAL	CXCR1	NA	NA	NA	NA	NA	NA	0,88459917	0,98793892
4	CXCR2	NA	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,77729697	0,98792487
5	NA	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,86263836	0,98792207
5	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	0,8860428	0,98791458
6	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	0,86758383	0,98785668
7	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,92797454	0,98784364
6	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	0,89128043	0,98778899
5	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,82170994	0,9877884
7	KCNJ15	NA	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,91397247	0,98777862

4	KCNJ15	NA	HAL	CXCR1	NA	NA	NA	NA	NA	NA	0,85947031	0,98776777
7	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,85500759	0,98773616
4	KCNJ15	CXCR2	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,8753944	0,98768704
4	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,63647112	0,98765311
4	KCNJ15	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	NA	NA	0,88673182	0,98765087
6	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CXCR1	NA	NA	NA	NA	0,91122666	0,98762051
8	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	0,9474518	0,98761712
5	KCNJ15	NA	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,88306664	0,98759719
5	KCNJ15	CXCR2	NA	FCGR3B	VNN3	NA	NA	NA	NA	NA	0,86079106	0,98759122
5	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,75169271	0,98756715
2	KCNJ15	VNN3	NA	NA	NA	NA	NA	NA	NA	NA	0,81435276	0,98754865
5	KCNJ15	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,87786862	0,98754269
5	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	NA	NA	NA	NA	NA	0,89973498	0,98754202
8	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	0,93987638	0,98754177
5	CXCR2	NA	FCGR3B	HAL	VNN3	NA	NA	NA	NA	NA	0,87410325	0,98753924
4	KCNJ15	CXCR2	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,8550842	0,98752939
8	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	0,8897327	0,98752828
6	CXCR2	NA	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,85491367	0,98752204
3	CXCR2	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,70450573	0,9875173
5	CXCR2	NA	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,84596552	0,9874588
6	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,77834002	0,98745431
7	KCNJ15	CXCR2	NA	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,92260015	0,9874539
3	KCNJ15	CXCR2	VNN3	NA	NA	NA	NA	NA	NA	NA	0,86594044	0,98744262
5	KCNJ15	NA	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	NA	0,89807637	0,98741022
5	KCNJ15	CXCR2	NA	HAL	CXCR1	NA	NA	NA	NA	NA	0,90342852	0,98740268
4	NA	FCGR3B	HAL	VNN3	NA	NA	NA	NA	NA	NA	0,86107167	0,98738375
5	CXCR2	NA	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	NA	0,87397758	0,98737178
3	CXCR2	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	NA	NA	0,68878445	0,98736403
7	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,88001133	0,98735994

4	CXCR2	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	NA	NA	0,70369802	0,98735343
6	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,92191325	0,98735194
6	KCNJ15	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,91057394	0,98734693
3	CXCR2	FCGR3B	VNN3	NA	NA	NA	NA	NA	NA	NA	0,69265575	0,98734558
9	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	0,95361413	0,98734087
5	KCNJ15	CXCR2	NA	HAL	VNN3	NA	NA	NA	NA	NA	0,91187445	0,98731309
5	KCNJ15	CXCR2	FCGR3B	VNN3	CXCR1	NA	NA	NA	NA	NA	0,85688312	0,98728168
4	KCNJ15	CXCR2	FCGR3B	CYP4F3	NA	NA	NA	NA	NA	NA	0,86319731	0,98726085
8	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	0,93312252	0,9872577
2	NA	FCGR3B	NA	NA	NA	NA	NA	NA	NA	NA	0,74023309	0,98724336
5	KCNJ15	CXCR2	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	NA	0,86871339	0,98722551
6	KCNJ15	CXCR2	NA	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,91551349	0,98718274
3	KCNJ15	FCGR3B	VNN3	NA	NA	NA	NA	NA	NA	NA	0,84309248	0,98716441
6	CXCR2	NA	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,87576059	0,9871459
3	NA	HAL	VNN3	NA	NA	NA	NA	NA	NA	NA	0,77708536	0,98708772
7	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,85497837	0,98705349
6	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	NA	NA	NA	NA	0,92051041	0,98701346
6	KCNJ15	CXCR2	NA	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	0,90920909	0,9869838
6	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,76951229	0,98695353
7	KCNJ15	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,90313201	0,98693327
3	NA	FCGR3B	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,75910919	0,98692824
6	KCNJ15	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,8843707	0,98691718
7	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	0,92890605	0,98690872
5	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,67143658	0,98690577
6	KCNJ15	CXCR2	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,9079149	0,98689624
3	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,60868055	0,98688427
7	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,92178975	0,98685478
7	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,91461743	0,98683007
4	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,73845963	0,9868004

7	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,83518954	0,98680034
6	CXCR2	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,74692547	0,98677408
4	CXCR2	FCGR3B	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	0,70076915	0,98676951
5	KCNJ15	NA	FCGR3B	HAL	VNN3	NA	NA	NA	NA	NA	0,91058525	0,98675383
7	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,91314166	0,98670823
8	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	0,92856345	0,98667414
5	CXCR2	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,73037467	0,986673
7	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,8023891	0,98667158
4	KCNJ15	NA	FCGR3B	CXCR1	NA	NA	NA	NA	NA	NA	0,80220091	0,98666925
8	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	0,93885439	0,9866507
4	KCNJ15	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,86517604	0,98664421
4	KCNJ15	CXCR2	FCGR3B	VNN3	NA	NA	NA	NA	NA	NA	0,85043617	0,98664398
4	KCNJ15	NA	HAL	VNN3	NA	NA	NA	NA	NA	NA	0,87086587	0,98664024
5	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,64209542	0,98663487
3	KCNJ15	NA	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,73891147	0,98663255
6	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,78295949	0,98660143
3	CXCR2	CYP4F3	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,61228503	0,98660136
6	CXCR2	NA	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,84595632	0,98656842
8	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	0,93034896	0,98654722
7	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	0,93369509	0,9865142
6	NA	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,87359693	0,98649571
5	NA	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,79855291	0,98648549
7	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	0,88498349	0,98648377
5	KCNJ15	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,90405255	0,98648346
6	KCNJ15	NA	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,90588583	0,98647997
8	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	0,87408842	0,98647412
6	NA	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,86539504	0,98645881
7	KCNJ15	NA	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,94122334	0,986415
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	0,94992324	0,98640064

5	KCNJ15	CXCR2	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,90027688	0,98637284
5	KCNJ15	NA	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,8653526	0,98636487
7	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	0,94218192	0,9863367
6	KCNJ15	NA	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,90531371	0,98632996
7	KCNJ15	CXCR2	NA	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,93515937	0,98632142
5	NA	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,78771851	0,98630638
6	KCNJ15	NA	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,90476356	0,98629429
9	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	0,94540756	0,98628732
4	CXCR2	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,71425633	0,98627824
5	NA	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,85103166	0,98627676
6	CXCR2	NA	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,85775665	0,98622806
6	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,74810743	0,98621182
6	KCNJ15	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,8737422	0,9862076
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	0,94831408	0,98619203
4	KCNJ15	CXCR2	HAL	CXCR1	NA	NA	NA	NA	NA	NA	0,91493653	0,98615669
7	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,89043377	0,9861461
2	NA	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,67392652	0,98613227
6	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,9086425	0,98611511
4	NA	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,76873917	0,98611406
3	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,72380099	0,98610888
5	CXCR2	FCGR3B	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,77437671	0,9860723
5	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,75931407	0,98603223
6	CXCR2	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,72309325	0,98596026
3	KCNJ15	HAL	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,8746979	0,98595725
6	KCNJ15	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,87743952	0,9859474
4	KCNJ15	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	NA	NA	0,89581793	0,98593049
7	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,91350231	0,98592071
6	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,84276236	0,98591985
3	CXCR2	HAL	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,73883915	0,98591929

5	NA	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,76805335	0,98591482
7	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,90535497	0,98585602
7	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,91491157	0,98582581
6	KCNJ15	CXCR2	NA	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,90112322	0,98582516
4	KCNJ15	CXCR2	NA	CXCR1	NA	NA	NA	NA	NA	NA	0,80702412	0,98581199
5	KCNJ15	CXCR2	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	NA	0,89895263	0,98580671
5	KCNJ15	CXCR2	NA	FCGR3B	CXCR1	NA	NA	NA	NA	NA	0,82750846	0,9857829
7	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,91428999	0,98577643
6	CXCR2	NA	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,83012609	0,9857079
2	KCNJ15	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,71285006	0,9856649
6	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,85161006	0,9856542
2	HAL	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,57934013	0,98565231
4	CXCR2	FCGR3B	HAL	CXCR1	NA	NA	NA	NA	NA	NA	0,76048457	0,98564941
4	NA	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,83975715	0,98563821
7	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,7840174	0,98563114
3	KCNJ15	NA	FCGR3B	NA	NA	NA	NA	NA	NA	NA	0,78702028	0,98562464
4	KCNJ15	NA	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,8501858	0,98560625
8	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	0,92043566	0,98558934
5	KCNJ15	NA	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,89637451	0,98556946
4	NA	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,74916961	0,98554827
2	CXCR2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,78650347	0,9855444
3	NA	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,74357105	0,98554295
6	KCNJ15	NA	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,89718355	0,98552295
7	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	0,92708078	0,98551498
3	KCNJ15	CXCR2	NA	NA	NA	NA	NA	NA	NA	NA	0,79007976	0,98551025
5	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,77635266	0,98549651
6	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,86452199	0,98546131
7	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	0,87257253	0,98542105
5	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	NA	NA	NA	NA	NA	0,9068159	0,98540957

7	KCNJ15	CXCR2	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,90827113	0,98540932
4	KCNJ15	CXCR2	HAL	VNN3	NA	NA	NA	NA	NA	NA	0,91287666	0,98537063
7	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	0,93640349	0,98536857
5	KCNJ15	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,88895172	0,98535232
5	KCNJ15	CXCR2	NA	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,89094149	0,98534263
5	CXCR2	NA	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,83943772	0,98533088
6	KCNJ15	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,89707886	0,9853167
8	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	0,92108421	0,98531643
4	KCNJ15	CXCR2	NA	HAL	NA	NA	NA	NA	NA	NA	0,89208101	0,98530741
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	0,94408168	0,98530376
5	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,84165313	0,98527828
7	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	0,92430694	0,9852737
3	CXCR2	NA	HAL	NA	NA	NA	NA	NA	NA	NA	0,87340718	0,98526449
3	KCNJ15	FCGR3B	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,79562738	0,9852634
4	CXCR2	NA	FCGR3B	CXCR1	NA	NA	NA	NA	NA	NA	0,77991315	0,98526225
6	KCNJ15	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,91839412	0,98525426
6	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,85805098	0,98524877
4	KCNJ15	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,85084355	0,98523384
6	KCNJ15	CXCR2	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,9136837	0,98522563
6	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	0,90790585	0,98522421
6	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,90745124	0,98522416
5	KCNJ15	NA	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,87059682	0,98520474
7	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	0,92529893	0,98520394
6	KCNJ15	NA	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,86397561	0,98519575
6	CXCR2	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,82483656	0,98517839
5	KCNJ15	CXCR2	NA	FCGR3B	HAL	NA	NA	NA	NA	NA	0,90223566	0,98517644
4	CXCR2	NA	FCGR3B	HAL	NA	NA	NA	NA	NA	NA	0,86783917	0,98517291
4	CXCR2	FCGR3B	HAL	VNN3	NA	NA	NA	NA	NA	NA	0,76209907	0,98516474
4	KCNJ15	CXCR2	NA	FCGR3B	NA	NA	NA	NA	NA	NA	0,81691104	0,98516381

7	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,8573051	0,98514436
7	KCNJ15	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,93436738	0,98514077
5	KCNJ15	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,86137974	0,9851147
5	KCNJ15	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,88016727	0,98511296
3	CXCR2	NA	FCGR3B	NA	NA	NA	NA	NA	NA	NA	0,76852055	0,98510151
6	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,91227212	0,98505528
7	KCNJ15	CXCR2	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,92748724	0,98501465
6	KCNJ15	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,89770555	0,98501377
5	CXCR2	NA	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,85731352	0,98496898
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	0,94322933	0,98496632
4	CXCR2	NA	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,82562246	0,98496457
6	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,79429084	0,98495893
6	KCNJ15	CXCR2	NA	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	0,92700919	0,98495083
5	NA	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,83026545	0,98494596
6	CXCR2	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,84002793	0,98492315
7	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	0,87769479	0,98491111
4	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,58940124	0,98489106
6	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	0,91568245	0,98486642
5	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,71932057	0,98486399
6	KCNJ15	CXCR2	NA	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,90479343	0,98485806
5	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,76255737	0,98485344
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	0,93035785	0,98485075
5	KCNJ15	NA	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,82423052	0,98485068
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	0,94149698	0,98484872
6	KCNJ15	CXCR2	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,89495099	0,98480104
6	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	0,79781438	0,98478462
5	CXCR2	NA	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,82190354	0,98475718
4	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,72237917	0,98474321
7	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,87648581	0,98474182

5	KCNJ15	CXCR2	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,88889502	0,98473948
6	KCNJ15	CXCR2	NA	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,86786889	0,98473928
6	KCNJ15	NA	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	0,9341181	0,98471568
3	CXCR2	NA	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,80314669	0,98471233
7	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	0,919639	0,98471057
5	CXCR2	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,73300406	0,98470976
2	KCNJ15	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,7524258	0,98470261
3	CXCR2	HAL	VNN3	NA	NA	NA	NA	NA	NA	NA	0,71229196	0,98469986
6	CXCR2	NA	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	0,88405986	0,98469751
7	KCNJ15	CXCR2	NA	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	0,92434241	0,98467608
7	KCNJ15	NA	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	0,92263411	0,98466033
5	CXCR2	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,74093585	0,98461415
6	CXCR2	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,85735407	0,9845972
5	CXCR2	NA	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,84601442	0,98454597
6	KCNJ15	CXCR2	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,89374816	0,98452384
7	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	0,88784328	0,98451123
4	KCNJ15	NA	FCGR3B	HAL	NA	NA	NA	NA	NA	NA	0,88791968	0,98447532
6	CXCR2	NA	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,83998113	0,98447089
5	KCNJ15	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,87338609	0,9844692
7	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,90094801	0,98446828
5	KCNJ15	NA	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,89398419	0,98444939
5	NA	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,86388589	0,98438685
5	FCGR3B	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,75768699	0,98437159
4	HAL	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,65357435	0,98436384
4	KCNJ15	CXCR2	FCGR3B	CXCR1	NA	NA	NA	NA	NA	NA	0,81330426	0,98430769
6	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,90186489	0,98429928
3	NA	FCGR3B	HAL	NA	NA	NA	NA	NA	NA	NA	0,85687959	0,98426895
6	NA	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,87688788	0,98426587
6	KCNJ15	NA	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,89238921	0,98423503

4	KCNJ15	FCGR3B	HAL	VNN3	NA	NA	NA	NA	NA	NA	0,90257898	0,98418041
7	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	0,91903972	0,98416244
6	CXCR2	NA	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,87738156	0,98412767
4	NA	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,77292477	0,98412738
5	CXCR2	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,71282392	0,98412562
9	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	0,95770896	0,98407691
5	KCNJ15	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,87295686	0,98404545
3	KCNJ15	CXCR2	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,82154976	0,98403815
10	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	0,96177406	0,98403775
9	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	0,95099874	0,98399417
3	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,58621299	0,98398975
5	CXCR2	NA	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,84593271	0,98398912
6	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,91090867	0,98398646
6	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,75630372	0,98398609
8	KCNJ15	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,92889712	0,98397391
5	KCNJ15	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,8669387	0,98397108
6	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,77903651	0,98396843
5	CXCR2	FCGR3B	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,7603474	0,98395281
7	KCNJ15	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	0,92446647	0,98395135
6	KCNJ15	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,91275732	0,98394972
2	FCGR3B	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,57409036	0,98392546
4	KCNJ15	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,87887513	0,98392322
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	0,9303282	0,98392033
7	KCNJ15	CXCR2	NA	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	0,92668733	0,98391766
6	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,8790553	0,98390101
5	CXCR2	VNN3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,69386529	0,9838901
5	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,73995934	0,98387759
8	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,89111414	0,98387389
6	KCNJ15	CXCR2	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,90735439	0,98387308

6	KCNJ15	NA	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,89561791	0,9838535
4	HAL	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,62480608	0,98385202
4	KCNJ15	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,8548462	0,98383972
3	KCNJ15	NA	HAL	NA	NA	NA	NA	NA	NA	NA	0,84144018	0,98382149
5	KCNJ15	CXCR2	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,88789564	0,98382123
4	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,62428758	0,98379859
4	NA	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,77960603	0,9837966
3	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,5672645	0,9837881
9	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	0,90385089	0,98377857
4	KCNJ15	CXCR2	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,87738654	0,98377149
5	NA	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,82109038	0,98376903
5	KCNJ15	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,89587228	0,98376786
8	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,93755146	0,98376317
7	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,91914561	0,98376243
7	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	0,88613642	0,98371143
5	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,74268102	0,98370011
7	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,83029595	0,98369508
8	CXCR2	NA	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,87534173	0,98367485
6	CXCR2	NA	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,88074568	0,98367102
6	KCNJ15	CXCR2	NA	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	0,86913169	0,98363758
5	KCNJ15	CXCR2	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,89119905	0,98361573
7	KCNJ15	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,90881855	0,98361313
4	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,71162283	0,9836124
6	KCNJ15	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,89335202	0,98360007
3	KCNJ15	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,83247235	0,98359669
6	KCNJ15	CXCR2	NA	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,92267724	0,9835783
9	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	0,94064257	0,98352587
6	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,90002946	0,9835237
5	KCNJ15	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,85607217	0,98352331

7	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	0,93907392	0,98351985
6	KCNJ15	CXCR2	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,86373908	0,98348666
4	HAL	VNN3	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,65058509	0,98346143
5	NA	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,81685454	0,98344472
4	CXCR2	CYP4F3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,70293423	0,98342996
7	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,88675219	0,98342468
8	KCNJ15	CXCR2	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,932953	0,98340921
5	KCNJ15	NA	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,84989178	0,98338784
6	KCNJ15	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,93045854	0,98337836
5	CXCR2	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,71835788	0,98336541
5	KCNJ15	NA	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,88890209	0,98331146
6	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,78079015	0,98331004
5	KCNJ15	NA	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	NA	0,85208843	0,98330539
6	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	0,91949611	0,98329549
7	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	0,9144177	0,98327816
5	KCNJ15	CXCR2	NA	VNN3	STEAP4	NA	NA	NA	NA	NA	0,85466609	0,98326616
5	CXCR2	NA	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,83342541	0,98325419
7	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	0,9031503	0,98324496
6	CXCR2	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,87408836	0,98321008
5	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,8533419	0,98316495
6	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,82698923	0,9831428
4	NA	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,76292483	0,98307399
6	KCNJ15	CXCR2	NA	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,88800116	0,98306789
8	CXCR2	NA	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,89293638	0,98306309
6	KCNJ15	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,86039857	0,98303979
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	0,91337735	0,98301838
5	KCNJ15	CXCR2	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,8716254	0,9829968
3	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,70319676	0,98298887
4	CXCR2	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,68345542	0,98298785

3	FCGR3B	HAL	VNN3	NA	NA	NA	NA	NA	NA	NA	0,7197283	0,98298673
5	CXCR2	FCGR3B	VNN3	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,75197529	0,98297777
5	KCNJ15	CXCR2	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,90423422	0,98295983
5	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,82563653	0,9829578
5	CXCR2	NA	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	NA	0,83055992	0,9829443
9	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	0,93930865	0,98292861
7	CXCR2	NA	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,87429978	0,98281969
3	KCNJ15	HAL	VNN3	NA	NA	NA	NA	NA	NA	NA	0,87188171	0,9828164
8	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,93534237	0,98280978
2	KCNJ15	CXCR2	NA	NA	NA	NA	NA	NA	NA	NA	0,80270188	0,98278585
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	0,92399289	0,98278244
7	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	0,87308767	0,98278157
8	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,92927966	0,98276713
4	CXCR2	FCGR3B	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,74794026	0,98276592
6	KCNJ15	CXCR2	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,91789401	0,98276082
3	KCNJ15	CXCR2	FCGR3B	NA	NA	NA	NA	NA	NA	NA	0,80170481	0,98273732
5	KCNJ15	NA	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,82060409	0,98270112
9	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	0,95932647	0,98266431
5	KCNJ15	NA	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,81676786	0,98262003
6	KCNJ15	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,91006322	0,9826051
6	KCNJ15	CXCR2	NA	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	0,83974168	0,98259071
4	KCNJ15	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,8302639	0,98258657
6	KCNJ15	CXCR2	NA	HAL	CXCR1	STEAP4	NA	NA	NA	NA	0,90596913	0,98257493
5	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,82684542	0,98256073
6	KCNJ15	NA	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	NA	0,90201031	0,98254775
2	NA	HAL	NA	NA	NA	NA	NA	NA	NA	NA	0,77284334	0,98253926
4	NA	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,81558495	0,98253285
6	KCNJ15	CXCR2	NA	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,86473119	0,98253025
7	KCNJ15	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,90416201	0,98252996

7	KCNJ15	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,92314661	0,98252033
8	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	0,93786556	0,98250626
7	KCNJ15	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,93338938	0,98247723
8	KCNJ15	CXCR2	NA	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	0,94653432	0,98246103
5	KCNJ15	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,91017925	0,98245778
9	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	0,95729158	0,98242558
6	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,84282217	0,98242434
4	NA	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,73115126	0,98242418
7	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	0,91791227	0,98242147
4	KCNJ15	CXCR2	FCGR3B	HAL	NA	NA	NA	NA	NA	NA	0,89177992	0,98241141
4	KCNJ15	NA	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,80462594	0,98238851
8	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,92304068	0,98236754
8	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,8230547	0,98235852
8	KCNJ15	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	0,95402437	0,98232848
8	KCNJ15	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,95262392	0,98232213
7	KCNJ15	CXCR2	NA	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,92795878	0,98231394
5	KCNJ15	NA	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,88810783	0,9822974
5	CXCR2	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	0,7875391	0,98224958
6	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,89976359	0,98224382
6	CXCR2	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	0,79383978	0,98223765
5	CXCR2	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,73368828	0,98223041
7	FCGR3B	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,79635336	0,98222875
6	KCNJ15	CXCR2	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,92802434	0,98222713
8	KCNJ15	CXCR2	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,94747129	0,98222502
3	CXCR2	FCGR3B	CXCR1	NA	NA	NA	NA	NA	NA	NA	0,64110903	0,98220698
6	KCNJ15	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,89741079	0,98219984
4	FCGR3B	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,69857041	0,98218951
6	KCNJ15	NA	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90060453	0,98217424
6	KCNJ15	CXCR2	NA	HAL	VNN3	STEAP4	NA	NA	NA	NA	0,91445405	0,98216379

8	CXCR2	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	0,90106676	0,98216322
2	KCNJ15	FCGR3B	NA	NA	NA	NA	NA	NA	NA	NA	0,77819637	0,98215376
3	CXCR2	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,68001016	0,98215152
6	KCNJ15	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,91786785	0,98214828
7	KCNJ15	CXCR2	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,92139086	0,98211945
6	CXCR2	NA	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	NA	0,87847531	0,98208566
4	CXCR2	NA	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,82963649	0,9820644
7	CXCR2	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,77628559	0,98204961
5	KCNJ15	CXCR2	NA	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,88176435	0,98204608
6	CXCR2	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,8319223	0,98203281
7	KCNJ15	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,92265974	0,98201615
5	KCNJ15	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,87808214	0,98198896
5	KCNJ15	CXCR2	NA	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,82043778	0,98198818
4	KCNJ15	NA	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,83918632	0,9819772
5	CXCR2	NA	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,81053126	0,98195735
6	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,88338676	0,98195405
7	KCNJ15	NA	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,9218655	0,98195356
4	NA	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,77768144	0,98192779
7	CXCR2	NA	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,89109795	0,98190451
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	0,92731574	0,98187728
7	CXCR2	NA	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,86917531	0,98182795
6	CXCR2	NA	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	NA	0,88064652	0,98182496
8	CXCR2	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,90584075	0,9818004
7	NA	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,88643531	0,98176329
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	0,91558602	0,98175305
6	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	0,91666259	0,98174521
6	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,78111365	0,98173982
6	HAL	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,71050084	0,98173866
6	KCNJ15	CXCR2	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,88418867	0,98173748

5	KCNJ15	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,89995465	0,98170945
7	NA	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,89406319	0,98169344
6	KCNJ15	NA	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	NA	0,91377961	0,98169308
6	CXCR2	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,79002264	0,98168335
5	KCNJ15	NA	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,86674517	0,98168005
3	KCNJ15	CXCR2	HAL	NA	NA	NA	NA	NA	NA	NA	0,90333397	0,98167352
4	KCNJ15	NA	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,76216087	0,9816296
2	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,54709233	0,98158667
5	KCNJ15	CXCR2	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,90231923	0,98158095
6	CXCR2	NA	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,86933593	0,98155168
6	KCNJ15	CXCR2	NA	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	0,92132352	0,98154095
7	KCNJ15	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,91686782	0,98153085
5	KCNJ15	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,8854537	0,98151967
6	KCNJ15	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,90674951	0,98151523
7	CXCR2	FCGR3B	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,80456594	0,98149905
4	NA	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,8214352	0,9814979
4	KCNJ15	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,86584255	0,98149696
5	CXCR2	NA	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,84668654	0,98149116
4	KCNJ15	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,83705354	0,98148844
6	KCNJ15	CXCR2	NA	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,91196477	0,98148074
8	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,92325439	0,98146987
5	NA	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,8157824	0,98145264
7	CXCR2	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,88043804	0,98144756
5	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,76187495	0,9814202
4	CXCR2	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,72326923	0,98136862
5	NA	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,86671648	0,98134965
5	KCNJ15	CXCR2	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,87710907	0,98133561
5	CXCR2	NA	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,84074202	0,98127272
5	CXCR2	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,75915813	0,9812673

5	KCNJ15	CXCR2	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	NA	0,85434067	0,98122979
6	KCNJ15	CXCR2	NA	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	0,86812061	0,98119171
6	NA	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,83081208	0,98118326
6	CXCR2	NA	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	0,88524576	0,98117861
6	NA	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,81946211	0,98117202
5	CXCR2	NA	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,87609687	0,98116948
5	CXCR2	NA	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,79471932	0,9811682
4	NA	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,76915296	0,98113553
5	KCNJ15	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,90868608	0,98113114
6	KCNJ15	NA	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	0,91973855	0,9811272
5	CXCR2	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,75826357	0,98112157
5	FCGR3B	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,76258687	0,98111234
5	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,68514249	0,9811071
7	KCNJ15	CXCR2	NA	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,91351867	0,98108882
5	KCNJ15	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,85957666	0,98105113
6	KCNJ15	NA	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,88312125	0,98104851
5	KCNJ15	NA	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,87406944	0,98103468
6	KCNJ15	CXCR2	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,86284352	0,98099978
8	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	0,93658473	0,98099613
6	CXCR2	VNN3	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,76326779	0,98098736
9	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	0,93430074	0,98091169
6	CXCR2	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,88277133	0,98090143
7	KCNJ15	CXCR2	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,92036444	0,98086611
8	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,93706974	0,98086238
4	CXCR2	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,7149063	0,9808519
5	KCNJ15	NA	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,85299835	0,98084118
4	FCGR3B	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	0,74745265	0,98083699
3	NA	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,71461174	0,9808326
4	CXCR2	NA	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,8043435	0,98076405

5	KCNJ15	CXCR2	NA	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,85660385	0,98074146
5	CXCR2	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,77438677	0,9807265
5	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,87907319	0,98068992
6	KCNJ15	CXCR2	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	NA	0,89928565	0,98065336
5	CXCR2	NA	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	0,86436909	0,98064396
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	0,95364332	0,98063652
4	KCNJ15	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,863662	0,98061556
4	HAL	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,65542935	0,98061337
5	KCNJ15	CXCR2	NA	FCGR3B	STEAP4	NA	NA	NA	NA	NA	0,82783009	0,98061226
5	CXCR2	NA	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,87796288	0,9806071
6	KCNJ15	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,91912884	0,98055098
7	KCNJ15	CXCR2	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,92430589	0,98053375
6	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87143651	0,98049951
7	KCNJ15	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,9334276	0,98048483
7	KCNJ15	CXCR2	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,92990301	0,98044008
3	NA	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,73863429	0,98043802
5	KCNJ15	CXCR2	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,87892947	0,98043509
6	KCNJ15	CXCR2	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,91656127	0,98043506
4	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,69022249	0,98042498
7	CXCR2	NA	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,87950208	0,98041299
8	KCNJ15	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,9279819	0,98040899
8	KCNJ15	CXCR2	NA	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,92964947	0,98040255
1	FCGR3B	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,53484838	0,98039138
5	CXCR2	NA	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,89401824	0,98038234
5	KCNJ15	NA	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	0,87776869	0,98037115
5	KCNJ15	NA	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,88609364	0,98035901
4	CXCR2	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,70542247	0,98030732
3	CXCR2	FCGR3B	HAL	NA	NA	NA	NA	NA	NA	NA	0,74785543	0,98028396
8	KCNJ15	CXCR2	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,8816968	0,9802622

7	KCNJ15	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,93123941	0,9802609
4	KCNJ15	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,84319554	0,98025942
5	NA	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,87672389	0,98022077
7	KCNJ15	CXCR2	NA	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,94133834	0,9801782
6	KCNJ15	CXCR2	NA	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	0,90466969	0,98017223
5	NA	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	0,86571551	0,98013932
5	CXCR2	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,73411407	0,98010872
5	KCNJ15	CXCR2	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,8221733	0,9801087
5	CXCR2	NA	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,83070962	0,98010725
4	KCNJ15	CXCR2	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,85685852	0,98009156
5	KCNJ15	CXCR2	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	0,88112115	0,98007343
4	KCNJ15	NA	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,80665958	0,98002058
7	KCNJ15	CXCR2	NA	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,91855095	0,98000948
7	KCNJ15	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,86948579	0,98000213
7	KCNJ15	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,94736965	0,97999949
6	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	NA	0,90742205	0,97996609
8	CXCR2	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,89397652	0,97994393
7	CXCR2	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,81733799	0,97993357
2	CXCR2	FCGR3B	NA	NA	NA	NA	NA	NA	NA	NA	0,6196135	0,97993108
4	FCGR3B	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,73225216	0,97989636
5	KCNJ15	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,88866743	0,97987177
4	NA	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,82546291	0,97986642
1	KCNJ15	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,71751313	0,97986355
4	NA	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,82868699	0,97985677
4	KCNJ15	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,84262651	0,97984375
6	KCNJ15	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90254172	0,97984271
6	CXCR2	NA	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,8622009	0,9797102
4	CXCR2	NA	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,79010298	0,97968739
7	CXCR2	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,82088121	0,97968721

4	KCNJ15	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,87326686	0,9796871
7	KCNJ15	CXCR2	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,90658774	0,97968324
6	KCNJ15	NA	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,91016285	0,97964725
3	KCNJ15	FCGR3B	HAL	NA	NA	NA	NA	NA	NA	NA	0,88504544	0,97964306
7	KCNJ15	NA	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,90149094	0,97963811
6	CXCR2	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,79915525	0,97962242
6	KCNJ15	CXCR2	NA	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,8358722	0,97961608
5	NA	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,80518522	0,97961564
7	KCNJ15	CXCR2	NA	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,8728584	0,97960482
7	CXCR2	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,90183772	0,97958483
4	NA	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,80449821	0,97956502
4	KCNJ15	NA	FCGR3B	STEAP4	NA	NA	NA	NA	NA	NA	0,80047039	0,97956373
5	KCNJ15	CXCR2	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,90509552	0,97955439
4	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,69246123	0,97952846
4	KCNJ15	CXCR2	NA	STEAP4	NA	NA	NA	NA	NA	NA	0,80228691	0,97952541
3	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,57701415	0,97952379
6	KCNJ15	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90398198	0,97951186
4	KCNJ15	CXCR2	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,87144764	0,97950293
4	KCNJ15	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,80276735	0,97946851
6	KCNJ15	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,89602732	0,97945208
6	KCNJ15	CXCR2	NA	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90581378	0,97944592
5	KCNJ15	NA	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,81380716	0,97941761
6	KCNJ15	CXCR2	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	0,90668411	0,97939374
2	CXCR2	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,65134471	0,97935244
5	CXCR2	FCGR3B	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,72264283	0,97932128
5	KCNJ15	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,89217702	0,97931575
7	NA	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,88531438	0,97926993
6	KCNJ15	NA	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,91332895	0,97925009
4	CXCR2	NA	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,84848266	0,9792402

6	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	0,91548623	0,97921983
5	FCGR3B	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,77256923	0,97921472
6	FCGR3B	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,79320549	0,97914219
6	CXCR2	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,76579791	0,97913446
7	CXCR2	NA	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,88574991	0,97912912
6	KCNJ15	NA	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,83390911	0,97909073
4	CXCR2	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,66609534	0,97901713
3	CYP4F3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,53584713	0,97901578
6	KCNJ15	CXCR2	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90488721	0,97899486
5	KCNJ15	CXCR2	NA	HAL	STEAP4	NA	NA	NA	NA	NA	0,89264287	0,97896931
7	CXCR2	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,84342472	0,97893076
6	CXCR2	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,77468603	0,9789208
4	NA	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,80956111	0,97890613
6	FCGR3B	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,78770467	0,97890049
6	KCNJ15	CXCR2	NA	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	0,91049205	0,97886249
4	CXCR2	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,71812011	0,97885074
3	HAL	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,6020042	0,97883115
5	KCNJ15	NA	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,87123334	0,97882698
6	CXCR2	NA	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87231027	0,97882108
5	CXCR2	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,75248143	0,97878118
4	HAL	VNN3	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,65853338	0,97875474
8	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,91961231	0,97875037
3	KCNJ15	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,82566244	0,97874096
5	KCNJ15	CXCR2	NA	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,81832095	0,97872516
6	NA	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,88762406	0,97871712
4	KCNJ15	CXCR2	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,81945601	0,97868529
5	KCNJ15	CXCR2	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,92341303	0,97865972
3	NA	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,67805072	0,97861103
5	KCNJ15	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,87446102	0,97860001

6	CXCR2	NA	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87527661	0,97858141
6	NA	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,83366253	0,97856995
2	HAL	VNN3	NA	NA	NA	NA	NA	NA	NA	NA	0,56504539	0,97853281
5	KCNJ15	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,90583627	0,97852322
3	HAL	CYP4F3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,62684976	0,97850689
5	KCNJ15	CXCR2	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	0,90683775	0,97844669
3	NA	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,76842078	0,97843959
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	0,91837326	0,97842713
5	CXCR2	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	0,77871825	0,97834529
4	CXCR2	NA	FCGR3B	STEAP4	NA	NA	NA	NA	NA	NA	0,77878161	0,97833199
8	KCNJ15	CXCR2	NA	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	0,92939221	0,97830672
5	KCNJ15	CXCR2	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,85873583	0,9782936
5	KCNJ15	NA	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	NA	0,89002796	0,9782908
5	KCNJ15	CXCR2	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,92397296	0,97826138
7	KCNJ15	CXCR2	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	0,93306541	0,97824441
4	KCNJ15	NA	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,75865784	0,97816112
5	NA	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,86462564	0,97808303
5	CXCR2	NA	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	NA	0,86789617	0,97806613
6	NA	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,83424287	0,97802148
7	KCNJ15	CXCR2	NA	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	0,87484261	0,97801225
5	HAL	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,69976948	0,97797946
5	KCNJ15	CXCR2	NA	HAL	TNFRSF10C	NA	NA	NA	NA	NA	0,90356652	0,97796619
4	CXCR2	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,71901746	0,97795812
4	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,66478849	0,97792062
7	KCNJ15	CXCR2	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,86825969	0,97791329
7	KCNJ15	CXCR2	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,92405905	0,97780552
6	CXCR2	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,78548339	0,97780392
4	CXCR2	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,72682024	0,97779974
6	CXCR2	NA	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,84495869	0,97778806

7	KCNJ15	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,91676973	0,97770342
3	VNN3	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,58388353	0,97769008
5	CXCR2	NA	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,85353795	0,97754609
4	NA	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,79341525	0,97752008
7	KCNJ15	CXCR2	NA	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,91265096	0,97751378
7	KCNJ15	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,90884909	0,9775085
5	KCNJ15	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	0,90011692	0,97750558
5	HAL	VNN3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,69386704	0,97748983
5	CXCR2	NA	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,78950151	0,97746409
5	NA	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,81662579	0,97745923
5	FCGR3B	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,75753349	0,97745697
6	KCNJ15	CXCR2	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90170311	0,97741571
5	KCNJ15	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,91396679	0,9774103
5	CXCR2	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	0,78211407	0,97737304
5	CXCR2	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,78182687	0,97736227
5	KCNJ15	NA	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	NA	0,89918556	0,9773573
6	KCNJ15	CXCR2	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,92309632	0,97730998
7	KCNJ15	CXCR2	NA	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	0,9219202	0,97727589
2	CXCR2	HAL	NA	NA	NA	NA	NA	NA	NA	NA	0,7150884	0,97725675
3	KCNJ15	NA	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,73630869	0,97722872
5	CXCR2	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	0,78496767	0,97722452
4	KCNJ15	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,89090918	0,97720131
6	KCNJ15	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,86158673	0,97715632
3	FCGR3B	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,67784861	0,97714464
4	KCNJ15	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,86535469	0,97712113
4	NA	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,77048718	0,97712024
4	KCNJ15	CXCR2	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,87345527	0,97711584
7	KCNJ15	CXCR2	NA	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,84623973	0,97705565
3	KCNJ15	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,80591083	0,97698084

5	CXCR2	NA	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	NA	0,87996062	0,97697579
4	KCNJ15	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,85353117	0,97697419
5	KCNJ15	CXCR2	NA	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	0,8275053	0,97696705
5	NA	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,78101432	0,97695968
6	KCNJ15	NA	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,85993783	0,97694301
6	KCNJ15	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,92760371	0,97692708
7	CXCR2	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,80835627	0,97691997
7	KCNJ15	NA	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	0,9210634	0,97691068
6	KCNJ15	CXCR2	NA	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,86231085	0,97689231
3	KCNJ15	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,75638352	0,97684409
6	KCNJ15	CXCR2	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87492373	0,97671685
7	CXCR2	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,8851392	0,97665214
4	CXCR2	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,67604782	0,97663874
1	CXCR2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,62447666	0,97662399
1	CXCR1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,3685264	0,97660463
4	NA	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,78765863	0,97657167
7	CXCR2	NA	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	0,88916415	0,9765488
5	CXCR2	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,74243908	0,97642492
5	KCNJ15	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,89693428	0,97642156
5	KCNJ15	CXCR2	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	0,82284524	0,97634579
5	KCNJ15	CXCR2	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,89681976	0,97628986
3	NA	FCGR3B	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,7438576	0,97627968
6	KCNJ15	NA	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,82579783	0,97626127
6	KCNJ15	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,89639591	0,97621877
4	KCNJ15	CXCR2	FCGR3B	STEAP4	NA	NA	NA	NA	NA	NA	0,80832754	0,97621344
3	CXCR2	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,6504626	0,9762005
6	CXCR2	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,81350786	0,97617267
6	KCNJ15	NA	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87816507	0,97613807
4	FCGR3B	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,75523555	0,97595811

6	CXCR2	NA	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,83687077	0,97593255
3	FCGR3B	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,67360798	0,97582462
4	CXCR2	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,74963038	0,97582457
4	KCNJ15	NA	HAL	STEAP4	NA	NA	NA	NA	NA	NA	0,84747688	0,97578854
4	CXCR2	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,77058895	0,9757769
4	FCGR3B	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	0,74359932	0,97575332
5	KCNJ15	CXCR2	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	NA	0,88945972	0,97575091
6	KCNJ15	CXCR2	NA	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,82913625	0,97574589
3	CXCR2	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,68663342	0,9755884
4	CXCR2	NA	HAL	STEAP4	NA	NA	NA	NA	NA	NA	0,85714186	0,97557367
4	KCNJ15	NA	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,86017116	0,97556877
4	CYP4F3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,64684575	0,97556196
4	KCNJ15	NA	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,80176676	0,97553696
2	KCNJ15	HAL	NA	NA	NA	NA	NA	NA	NA	NA	0,85328114	0,97552682
3	CXCR2	NA	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,76076368	0,97552628
4	CXCR2	NA	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,80145351	0,97552135
4	KCNJ15	CXCR2	NA	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,80502337	0,97543927
6	CXCR2	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,74741263	0,97540752
5	KCNJ15	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,83855367	0,97538552
4	CXCR2	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,71637199	0,97535774
5	KCNJ15	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,89169243	0,97535356
4	KCNJ15	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,80817248	0,9753342
6	FCGR3B	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,78293215	0,97531136
4	KCNJ15	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,89087843	0,97529947
4	CXCR2	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,74936861	0,97528386
6	CXCR2	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,77994019	0,97527991
6	NA	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87592845	0,97527844
7	KCNJ15	CXCR2	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	0,90554123	0,97527693
4	CXCR2	NA	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,88928979	0,9752695

6	KCNJ15	NA	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,88977955	0,97523447
5	KCNJ15	NA	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,81802029	0,97516431
6	CXCR2	NA	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,88406469	0,97511345
7	KCNJ15	CXCR2	NA	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	0,91139202	0,97486938
6	CXCR2	NA	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,8768347	0,9748469
7	KCNJ15	CXCR2	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	0,91445165	0,9748234
4	NA	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	NA	NA	0,8502935	0,97474613
4	KCNJ15	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,86094711	0,97465793
3	FCGR3B	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,61617696	0,97464856
4	NA	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,87403149	0,9746102
3	KCNJ15	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,83065611	0,97460696
5	CXCR2	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,77701234	0,97459535
2	CYP4F3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,50322931	0,9745212
5	KCNJ15	CXCR2	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	NA	0,90197643	0,97451472
6	NA	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87766677	0,97448217
5	CXCR2	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,76137505	0,97446849
4	KCNJ15	CXCR2	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,83052695	0,97444269
6	CXCR2	NA	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,80190407	0,97440324
5	KCNJ15	NA	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,77728984	0,97439204
6	KCNJ15	CXCR2	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,86106247	0,97429431
5	NA	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,82353865	0,97428034
3	NA	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,69376755	0,97425456
4	KCNJ15	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,86794576	0,97420706
4	FCGR3B	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,7531681	0,97420154
5	FCGR3B	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,7820711	0,9740947
5	FCGR3B	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,7172923	0,97408606
4	CXCR2	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,7374257	0,97406324
5	CXCR2	NA	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,83404725	0,9739128
6	KCNJ15	CXCR2	NA	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,83635938	0,97367914

6	KCNJ15	CXCR2	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,91232365	0,97356323
4	CXCR2	NA	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,78232161	0,97353635
6	KCNJ15	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90039583	0,9733947
2	FCGR3B	HAL	NA	NA	NA	NA	NA	NA	NA	NA	0,70238883	0,97336613
6	KCNJ15	CXCR2	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,82979211	0,97327895
6	KCNJ15	CXCR2	NA	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,901941	0,97307726
5	CXCR2	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,72930411	0,97307317
3	FCGR3B	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,68370508	0,97305886
5	NA	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,7787785	0,97303202
3	KCNJ15	CXCR2	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,79716548	0,97301536
3	HAL	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,64807884	0,97298346
5	NA	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,82407018	0,97287171
6	KCNJ15	CXCR2	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,9159039	0,97283332
4	FCGR3B	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,74434827	0,97282629
3	KCNJ15	NA	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,73775064	0,97279199
4	FCGR3B	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	0,74461991	0,97275955
4	KCNJ15	CXCR2	HAL	STEAP4	NA	NA	NA	NA	NA	NA	0,88954572	0,97271677
5	HAL	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,69613868	0,97260683
6	KCNJ15	NA	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,89918408	0,97255429
3	KCNJ15	FCGR3B	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,78296027	0,97248712
3	CXCR2	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,71801953	0,97243601
3	CXCR2	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,63860637	0,97234585
3	KCNJ15	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,77228388	0,9723019
4	CXCR2	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,72650148	0,97223329
4	KCNJ15	CXCR2	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,91607502	0,97217534
6	KCNJ15	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,90936965	0,97212216
5	KCNJ15	CXCR2	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,86389529	0,97202252
5	CXCR2	NA	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,7942375	0,97194485
6	CXCR2	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,79507831	0,9719084

5	KCNJ15	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,85134355	0,9718565
6	CXCR2	NA	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,87759702	0,97167814
4	CXCR2	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,66757757	0,97158251
5	NA	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,81714064	0,97156207
5	KCNJ15	NA	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,81227385	0,97144197
5	KCNJ15	CXCR2	NA	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,81417711	0,97141618
5	KCNJ15	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,81294445	0,97136641
6	CXCR2	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,79982958	0,97131284
4	KCNJ15	CXCR2	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,81427801	0,9712775
4	KCNJ15	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	NA	NA	0,87822392	0,97121383
4	HAL	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,6783907	0,97105928
3	NA	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,81101126	0,9709009
3	NA	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,75899876	0,97089903
4	NA	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,75723381	0,97086529
4	KCNJ15	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,8986973	0,97078584
5	KCNJ15	CXCR2	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,82751428	0,97078005
5	KCNJ15	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,87864833	0,97063824
4	VNN3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,61656151	0,97037871
3	HAL	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,62654984	0,9701952
4	CXCR2	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	NA	NA	0,76256034	0,97016216
3	CXCR2	NA	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,79285885	0,9699381
5	CXCR2	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,73605899	0,96988858
6	KCNJ15	CXCR2	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	0,89794709	0,96957842
5	KCNJ15	NA	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,8624141	0,96957469
4	CXCR2	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	0,77414733	0,96956938
3	HAL	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,63048085	0,9694152
5	CXCR2	NA	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,78987124	0,96933988
4	NA	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,69952027	0,96927698
2	NA	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,62151689	0,96925868

3	CXCR2	FCGR3B	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,65186583	0,96903713
3	FCGR3B	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,61454421	0,96898689
3	NA	HAL	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,77042069	0,96898234
3	CYP4F3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,61733804	0,96882074
5	CXCR2	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,77357948	0,96867189
5	KCNJ15	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,88306856	0,96866735
5	FCGR3B	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,76711329	0,96864808
5	CXCR2	NA	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,8707226	0,96845848
5	CXCR2	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,69568067	0,96807244
5	NA	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,86418381	0,96786306
4	KCNJ15	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,82010903	0,96783039
4	KCNJ15	NA	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,75575579	0,96766945
5	CXCR2	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,76485234	0,96760676
4	KCNJ15	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,77285509	0,96740308
5	KCNJ15	CXCR2	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,81866673	0,96734855
3	KCNJ15	CXCR2	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,81736713	0,96719183
3	KCNJ15	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,79542787	0,96675397
5	FCGR3B	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,76980288	0,96670142
2	VNN3	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,55919657	0,96645831
3	CXCR2	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,66471352	0,9663203
5	KCNJ15	CXCR2	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,90046167	0,96592379
2	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,51514046	0,9657588
3	KCNJ15	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,8762787	0,96554697
4	FCGR3B	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,69956156	0,96514123
4	NA	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,76001236	0,96513967
4	CXCR2	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,71016279	0,96498165
5	KCNJ15	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,88960578	0,96482132
2	CXCR1	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,42370895	0,96476881
4	CXCR2	NA	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,77319957	0,96467731

3	HAL	VNN3	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,62279691	0,96458987
3	KCNJ15	HAL	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,8410868	0,96419313
4	FCGR3B	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,64564148	0,96399882
3	CXCR2	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,75802434	0,9638347
2	KCNJ15	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,72129633	0,96377477
2	NA	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,66022453	0,96345285
4	HAL	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,67289003	0,96293099
5	CXCR2	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	0,78304262	0,96290575
4	CXCR2	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,66275689	0,96250092
3	CXCR2	HAL	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,7200711	0,96233865
4	KCNJ15	CXCR2	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,81007088	0,96230893
4	NA	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,79901982	0,96199172
4	KCNJ15	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,79714284	0,96190517
3	FCGR3B	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,74245329	0,96160846
3	CXCR2	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	0,65310781	0,9615743
3	FCGR3B	HAL	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,71835032	0,95976708
4	HAL	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,6689673	0,95954703
2	CXCR1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,44896197	0,95853973
4	KCNJ15	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,85976787	0,95804955
4	CXCR2	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,67718598	0,957286
2	KCNJ15	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,74727494	0,95713786
2	CXCR2	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,58931625	0,95652272
2	FCGR3B	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,57601257	0,95643304
3	NA	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,6586713	0,95616395
4	CXCR2	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,75223003	0,95511506
3	VNN3	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,57425548	0,95484861
3	CXCR1	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,49495687	0,95357497
4	FCGR3B	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	0,74841561	0,95343735
3	KCNJ15	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,74520811	0,95178388

1	HAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,52091783	0,9507591
2	FCGR3B	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,59015901	0,94686739
2	CXCR2	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,65147504	0,94641357
2	HAL	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	0,61103242	0,94479043
3	CXCR2	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,62828006	0,94347311
3	FCGR3B	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,61578023	0,94320001
2	HAL	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,57460017	0,93626681
3	HAL	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	0,63361718	0,93610287
2	TNFRSF10C	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	0,42311976	0,90272515
1	STEAP4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,32180583	0,88772051
1	TNFRSF10C	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,36301142	0,86997082

Combination of genes for identification of NK cells

2	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,6206794	0,99737312
3	KIR2DL4	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,76998378	0,99481562
3	KIR2DL3	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,79169128	0,99436778
3	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,75505304	0,99389824
1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,53413718	0,99351725
1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,49935826	0,99291315
4	KIR2DL4	KIR2DL3	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,84820203	0,99281843
3	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,77734996	0,99264364
2	KIR2DL3	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,77545278	0,99241191
4	KIR2DL4	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,83615744	0,99230083
2	KIR2DL4	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,7580131	0,99199984
4	KIR2DL3	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85021874	0,99192893
3	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,80854997	0,99180458

2	KIR2DL4	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,75574228	0,9917317
4	KIR2DL4	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85385468	0,99127529
5	KIR2DL4	KIR2DL3	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88168833	0,99097815
4	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85624124	0,99087799
4	KIR2DL4	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85643053	0,99064719
2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,72520187	0,99059921
2	KIR2DL3	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,76971888	0,99045612
3	KIR2DL4	KIR2DL3	CD160	NA	NA	NA	NA	NA	NA	NA	0,84568452	0,99043856
4	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,84245756	0,99042659
4	KIR2DL3	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85640503	0,99018134
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88992051	0,99010088
2	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,72718152	0,98994505
3	KIR2DL4	KIR2DL3	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83528596	0,98988195
4	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85661991	0,98969298
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88783565	0,98965533
5	KIR2DL4	KIR2DL3	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,8797961	0,98955444
3	KIR2DL4	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82664504	0,9895539
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,8862551	0,98932116
3	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,76425196	0,98931684
5	KIR2DL4	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88443469	0,98908253

5	KIR2DL4	KIR2DL3	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87236267	0,98903878
4	KIR2DL4	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,84211505	0,98893322
3	KIR2DL3	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,84455027	0,98892954
3	KIR2DL4	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,83747814	0,98891117
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,90818251	0,98887216
2	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,74592027	0,98877464
4	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87135503	0,988759
5	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88100316	0,98870378
3	KIR2DL3	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82710506	0,98863802
4	KIR2DL4	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,80431909	0,98840039
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,89655646	0,98837214
4	KIR2DL4	KIR2DL3	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86534584	0,98832441
4	KIR2DL3	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,84645769	0,98832091
6	KIR2DL4	KIR2DL3	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89805887	0,98831984
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89825122	0,98828321
5	KIR2DL4	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,8552704	0,98827533
4	KIR2DL4	KIR2DL3	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,88018432	0,98827378
5	KIR2DL4	KIR2DL3	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,87990732	0,98816057
2	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,76571826	0,98795489
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88788636	0,98788976

3	KIR2DL4	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85492283	0,98779889
3	KIR2DL4	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	NA	0,85419953	0,98779211
3	KIR2DL3	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	NA	0,84194483	0,9877435
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	0,90464098	0,98766604
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89360169	0,98746427
4	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,83634246	0,98745203
5	KIR2DL4	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,8800988	0,98744211
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90379732	0,98742301
6	KIR2DL4	KIR2DL3	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89877704	0,98734392
5	KIR2DL3	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,86750377	0,98731943
5	KIR2DL4	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87580866	0,98729359
4	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	0,88563415	0,98728229
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,912112	0,98726205
5	KIR2DL4	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,86829305	0,98723572

3	KIR2DL4	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,8385572	0,98706316
6	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,90074043	0,98702406
4	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	0,87853714	0,98699412
5	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,87995604	0,98696846
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,90100204	0,98693183
4	KIR2DL3	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,823192	0,98690898
2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,78089081	0,98690475
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	0,91387487	0,98686038
3	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83876217	0,9868507
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,91828663	0,98685022
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89599081	0,98681974
6	KIR2DL4	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89769918	0,98670324
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,91129225	0,98668168
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88097462	0,98664379
3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82773241	0,98662702

5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88787007	0,98662251
4	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,84183785	0,98649604
3	KIR2DL4	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,84628698	0,98642049
3	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82931821	0,98638443
4	KIR2DL4	KIR2DL3	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85430277	0,98635546
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,90385178	0,98630149
4	KIR2DL4	KIR2DL3	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	0,86507329	0,98628899
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,88838236	0,98627428
2	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,78178861	0,98627339
5	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87108074	0,98627048
5	KIR2DL3	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87703689	0,98625216
3	KIR2DL3	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,8313366	0,98624943
4	KIR2DL4	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,84594186	0,98620156
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,89235232	0,98616142
5	KIR2DL4	KIR2DL3	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88110093	0,98613512
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,87917204	0,98613509

6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89534014	0,98612208
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,87372227	0,98610542
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,90265381	0,98609741
4	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,78319951	0,98605483
5	KIR2DL4	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88859599	0,98600725
3	KIR2DL3	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82011589	0,98598958
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86344892	0,98597899
4	KIR2DL4	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86284003	0,98597285
6	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89573749	0,98595736
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	0,91735555	0,98595194
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90827944	0,98587642
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,89557389	0,9857704
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,90811024	0,98573321
3	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,8252254	0,98572133
4	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,86248819	0,98568853
5	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85043171	0,98559495

5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,87001894	0,98558385
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,91598028	0,98558064
5	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,86866223	0,98551979
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	0,92429087	0,98548778
5	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,87816076	0,98547711
5	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,87887434	0,98546857
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,91961237	0,98543187
4	KIR2DL3	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85327222	0,98540808
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,89818886	0,9853371
6	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90336585	0,98531163
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,88257686	0,98528067
5	KIR2DL4	KIR2DL3	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88651856	0,98526948
5	KIR2DL4	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,8849546	0,98526333
4	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,84421614	0,98523667
4	KIR2DL4	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,87521568	0,98522419
4	KIR2DL4	KIR2DL3	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,8655584	0,98520627
6	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,9048109	0,98517869
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90040914	0,98512386
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,90659853	0,98509696
4	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,831019	0,98509226

4	KIR2DL3	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,85902484	0,98498451
2	KIR2DL4	KIR2DL3	NA	NA	NA	NA	NA	NA	NA	NA	0,81552172	0,98494614
4	KIR3DL1 /// KIR3DL2	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,79874306	0,98485411
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	0,91078571	0,98485213
3	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,78033848	0,98481883
3	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,83829521	0,98479051
5	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88763861	0,9847777
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88393888	0,98475832
3	KIR2DL4	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83508502	0,98475451
6	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,89415554	0,9847474
5	KIR2DL3	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88757701	0,98468111
1	KIR2DL4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,7474446	0,98459233
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	0,8823933	0,98459111
4	KIR2DL4	KIR2DL3	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86244382	0,98457827
5	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87941213	0,98457213
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89850325	0,98454151
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91229028	0,98451727
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	0,89024532	0,98451508

7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,91101663	0,98449922
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90722722	0,98449809
4	KIR2DL4	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,8477192	0,98448138
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	0,88937681	0,98438105
5	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89351667	0,98431998
4	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,8506936	0,9843032
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,89306385	0,98424068
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	0,89016894	0,98418062
6	KIR2DL4	KIR2DL3	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90198316	0,98413324
3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85108477	0,98412632
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	0,86416688	0,98411084
7	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91726239	0,98409249
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,89650659	0,98407718

8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	0,9174931	0,98406707
6	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,89206771	0,98403273
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89323417	0,98403173
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92022762	0,98403096
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,92070206	0,98401395
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85696378	0,98400519
5	KIR2DL4	KIR2DL3	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88012672	0,98394393
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	0,89953624	0,98394355
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,9057175	0,9839423
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	0,89566853	0,98392677
5	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,88037022	0,98391667
3	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85162714	0,98387223
4	KIR2DL4	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86767893	0,98385594
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91447648	0,9838316

6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,8904381	0,98380393
5	KIR2DL4	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,8837396	0,98380005
3	KIR2DL4	KIR2DL3	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,84494199	0,98374497
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,901866	0,9837383
5	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88779316	0,98372309
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86651436	0,98368962
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,86879489	0,98367338
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,90554203	0,98364809
5	KIR2DL4	KIR2DL3	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,89584594	0,98362233
4	KIR2DL4	KIR2DL3	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,87116687	0,98361695
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,90508002	0,98359167
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,90606355	0,9835277
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,87881556	0,98347762
3	KIR2DL3	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82027504	0,98340603
1	KIR2DL3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,72111231	0,98338255
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91875895	0,98336823

6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90705229	0,98336265
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88909894	0,9833474
6	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90271012	0,983337
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,92778765	0,98332076
5	KIR2DL4	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,880897	0,98331379
6	KIR2DL4	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89660315	0,98327723
2	KIR2DL4	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,81748431	0,98318603
4	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85699967	0,98317027
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91427006	0,98316269
5	KIR2DL3	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,8764187	0,98314494
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,87453591	0,98314187
8	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,92184187	0,98308093
4	KIR2DL4	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,86331757	0,98305095
2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,74091682	0,98302896
5	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,89213925	0,98300791
4	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85098017	0,98296529
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91013458	0,98292936
5	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89231446	0,98292745

6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,91230869	0,98292146
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,88650073	0,98289378
6	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,89417063	0,98282901
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	0,89976443	0,98278535
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	0,9047331	0,9827655
4	KIR2DL4	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,86757424	0,9827456
5	KIR2DL4	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,86762709	0,98273579
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91788108	0,98270096
4	KIR2DL3	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,84942015	0,98269863
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	0,91794587	0,98269079
3	KIR2DL4	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,79797706	0,98269022
4	KIR2DL4	KIR2DL3	CD160	NA	NA	NA	NA	NA	NA	NA	0,87029441	0,98264053
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,89607771	0,98263394
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	0,89890893	0,98262372

6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,89956405	0,98260579
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88038299	0,98259777
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91097077	0,98259213
3	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,81477877	0,98256776
4	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85920186	0,98249892
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,92481419	0,98247381
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90180343	0,98246756
7	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91852889	0,98246555
9	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	0,92917281	0,98243665
3	KIR2DL4	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,83666131	0,98240484
6	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89763934	0,9824044
5	KIR2DL4	KIR2DL3	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	0,8871531	0,98240024
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,9212051	0,9823726
2	KIR2DL3	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,78451394	0,98235791
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,89456431	0,9823313
5	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88779287	0,98230645
6	KIR2DL4	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90658528	0,98229697

6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,90374049	0,98227629
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,86872486	0,98226836
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,89243795	0,98223446
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87625165	0,98219007
4	KIR2DL4	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,87728583	0,98210354
5	KIR2DL3	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,8669948	0,98207903
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,89748361	0,9820749
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,87927581	0,98207458
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,89672005	0,98207296
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91026064	0,98203739
3	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	0,85723149	0,98198916
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,90440349	0,98197469
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,90796114	0,98195213
3	KIR2DL3	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82626967	0,98194537

7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	0,91159561	0,98192933
8	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,9301973	0,98191014
3	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,68527828	0,98188007
4	KIR2DL4	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86817279	0,98185565
4	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	0,87016434	0,98185181
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	0,90490346	0,981813
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,92394719	0,98179701
7	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91026959	0,98176449
4	KIR2DL3	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,8638054	0,98170246
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85322891	0,98169232
5	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,88116276	0,98167666
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,86993064	0,98166621
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,895587	0,98159015
4	KIR2DL4	KIR2DL3	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86162866	0,98157914
5	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88235546	0,98156

5	KIR2DL3	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87286159	0,98148527
6	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,89647275	0,98146065
5	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89465948	0,9814488
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,9094281	0,98143032
7	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91175343	0,98142982
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,89172595	0,98139999
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	0,88428495	0,98138926
6	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89954837	0,981364
8	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	0,9176034	0,98135143
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,8775913	0,9813401
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,88671111	0,98127367
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,8813796	0,98126323
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	0,89262458	0,98125838
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,88955675	0,98122542
7	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91932024	0,98119669

5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,90092814	0,9811937
4	KIR2DL3	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85057094	0,98112715
5	KIR2DL4	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,88825715	0,98109676
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91115539	0,98109224
4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85588385	0,98106122
4	KIR2DL3	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85659812	0,9809619
5	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,85694899	0,98095908
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,93142131	0,98095118
3	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,86691945	0,98093443
3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82538667	0,98090941
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,90906846	0,98088071
4	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,84134022	0,98086636
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87585336	0,98083474
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,8564718	0,98083382

5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,87786158	0,98083137
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,92217765	0,98082615
4	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	0,83581158	0,98081902
6	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88769115	0,98080582
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,89870567	0,98079328
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91262015	0,98076768
4	KIR2DL4	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85140528	0,98076254
8	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92025966	0,9807572
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,89311365	0,98073974
4	KIR2DL4	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87111977	0,98066022
3	KIR2DL4	KIR2DL3	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	0,81564306	0,98065241
2	KIR2DL4	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	NA	0,84951163	0,98061935
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	0,90040867	0,9806152
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,8932446	0,98060086

6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,90047915	0,98059679
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,88105686	0,98058196
6	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90540968	0,98057427
6	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,9007596	0,98053646
6	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,9025494	0,98049739
4	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,84253449	0,98046458
9	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	0,92945071	0,98046107
7	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	0,91458027	0,98044426
5	KIR3DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,8555263	0,98043653
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,92152805	0,98040487
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88941819	0,9803967
8	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,90998326	0,98038252
4	KIR3DL1 /// KIR3DL2	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83288366	0,98038172
5	KIR2DL4	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88122045	0,98033828
6	KIR2DL4	KIR2DL3	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90261613	0,98030362
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	0,8749699	0,98029123
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,90050413	0,98028516

3	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,81978627	0,98028373
1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,66688616	0,9802761
3	KIR2DL4	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83474708	0,98027583
7	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91082799	0,98026554
5	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,89133381	0,98025544
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,87236326	0,98022935
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	0,89856764	0,98022695
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	0,89076013	0,98022167
5	KIR2DL3	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,87637521	0,98019939
4	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85419485	0,98019287
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,91205606	0,98010006
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92384481	0,98009886
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,87712297	0,98009024
4	KIR2DL4	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,87515157	0,98008194
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92223829	0,98007828
5	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,89073143	0,98006388

5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,86322125	0,98001311
6	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,89862681	0,97997198
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	0,85995235	0,97996781
9	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	0,91870218	0,97996637
3	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83346405	0,9798594
5	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,86372672	0,97985337
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,90000999	0,97985031
5	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,86839792	0,97983958
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90840833	0,97983538
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,91263989	0,97982672
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90427914	0,97979983
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,90599816	0,9797924
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,90104497	0,97971609
4	KIR2DL4	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	NA	0,86298083	0,97968537

2	KIR2DL3	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	NA	0,78928646	0,97967522
3	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82017937	0,97966084
4	KIR2DL4	KIR2DL3	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,86610425	0,9796533
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,92335936	0,97964794
4	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	0,84954605	0,9796343
5	KIR2DL4	KIR2DL3	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,89146526	0,97960872
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,90950338	0,97959234
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,89791343	0,97958713
4	KIR2DL4	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,86592314	0,97958589
7	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91278482	0,97957191
4	KIR2DL3	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,85017012	0,97956657
4	KIR2DL3	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85913162	0,97955865
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,90653297	0,97955597
5	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,85855512	0,97954106
5	KIR2DL3	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,87633117	0,97953828
4	KIR2DL3	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85722922	0,97952376
3	KIR2DL4	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,82911185	0,97951609

7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	0,89294079	0,97950739
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	0,90847462	0,97950435
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,90611787	0,97948364
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,875287	0,97948043
7	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91660835	0,97947273
8	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,9306221	0,97946815
4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,85861362	0,97945038
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,88035934	0,97943354
5	KIR2DL1	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,88159389	0,97936394
3	KIR2DL3	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,80856734	0,97934997
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	0,87925772	0,97931776
6	KIR2DL4	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90060943	0,97931244
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,89401243	0,9792882
6	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90037797	0,97927791
8	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,92426742	0,97924971

6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,89568563	0,97922508
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,88523393	0,97919669
4	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88494178	0,97919117
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	0,89256384	0,97917438
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,86905187	0,97915568
5	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,87740045	0,97913498
7	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,8997433	0,97905475
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86571963	0,97905218
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,90530975	0,97904243
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91713277	0,97896371
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88014325	0,97892641
4	KIR3DL1 /// KIR3DL2	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,8606584	0,97888822

7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91779825	0,97887918
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,88500792	0,97884707
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	0,86359358	0,97884042
8	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91964615	0,97883497
8	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,90851774	0,97882008
3	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,81582647	0,97880118
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,90715007	0,97878788
3	KIR3DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,75567006	0,97876166
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,92276278	0,97874279
3	KIR2DL3	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,78591918	0,9787323
5	KIR2DL4	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88824529	0,97868994
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,91777736	0,97867262
7	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91010252	0,97866189
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,89865238	0,97863288

6	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,88716442	0,97862322
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	0,89902332	0,97858922
4	KIR2DL4	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85960246	0,97857456
6	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,90032352	0,97855338
2	KIR2DL4	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,80168487	0,97854454
3	KIR2DL3	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82580407	0,97850041
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,91220975	0,97846036
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,90041001	0,97844101
4	KIR2DL3	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	NA	0,85470478	0,97842838
5	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88373359	0,97842361
6	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90655387	0,97842189
6	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90457227	0,97840056
6	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,91057338	0,97838969
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	0,91441278	0,97835173
6	KIR2DL4	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,9022263	0,97834244
5	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,8696596	0,97834109
5	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,85660136	0,97828559

2	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,77929773	0,97827866
6	KIR2DL3	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90387981	0,97827175
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,90782405	0,97826891
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	0,82044577	0,9782455
4	KIR2DL3	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85586286	0,97818276
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,88179028	0,97814933
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	0,8897259	0,97814397
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	0,87802134	0,97813512
4	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,86454405	0,97811217
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	0,88617479	0,97810255
4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86275123	0,97807487
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89021378	0,97807016
3	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	0,85405797	0,97801913
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,87506368	0,97798301

5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,90421079	0,97794482
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91187187	0,97792892
2	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,72385922	0,97792774
9	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,9347991	0,97783335
4	KIR2DL4	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87574772	0,97778934
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	0,87893317	0,97778469
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	0,86260632	0,97778218
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,88781717	0,97777769
7	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91316609	0,97777092
6	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90109113	0,9777653
4	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,85203454	0,9777392
4	KIR2DL4	KIR2DL3	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,86947122	0,97771877
10	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	0,93110225	0,97771356
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	0,89023202	0,97765751

7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,90986493	0,97763833
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,90933802	0,97763131
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,90904837	0,97761681
5	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88245886	0,97758923
9	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,925556	0,97757705
8	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92832461	0,97755628
6	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,88095989	0,97748719
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,88495037	0,97747579
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,89670467	0,97747148
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,86833048	0,97743814
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,86730134	0,97741372
4	KIR3DS1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,80171769	0,97741176
6	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90274129	0,97737809
6	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,88795163	0,9773754
4	KIR2DL3	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,83722246	0,97735939

3	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83099332	0,97734789
5	KIR2DL4	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,89242006	0,97734636
2	KIR2DL3	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,74785725	0,97730058
4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,8728892	0,9772754
5	KIR2DL3	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87653507	0,97725167
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,89986335	0,97724014
6	KIR2DL3	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89713819	0,97723452
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,90020528	0,9772259
4	KIR2DL3	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,86677538	0,97721356
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,90360723	0,97721213
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,86393297	0,97721175
3	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	0,80062161	0,97719454
7	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91757839	0,97719441
3	KIR2DL1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,80821173	0,97716794
4	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,84365868	0,97716548
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90309452	0,97709355
5	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,88411579	0,97705483
9	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,92708624	0,97702858

7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,91569562	0,97702035
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	0,90853217	0,97701932
5	KIR2DL4	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,8705	0,97698674
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92798901	0,9769153
3	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,83662891	0,97690466
5	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,88351577	0,97685923
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,89770838	0,97682514
4	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,88198141	0,97679679
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,88082423	0,9767773
4	KIR3DL1 /// KIR3DL2	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82874007	0,97677304
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,91700265	0,97673411
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,88186001	0,97672619
3	KIR2DL4	KIR2DL3	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,83173482	0,97670267
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	0,8932361	0,97670239
8	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91914097	0,97667207

5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	0,8724537	0,97657338
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,878659	0,97656672
5	KIR2DL4	KIR2DL3	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,89625198	0,97655951
6	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,90385931	0,97655319
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,8846918	0,97654947
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	0,86160555	0,97653174
4	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	0,85674858	0,97653173
5	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,8646558	0,97652473
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,84467646	0,97650845
4	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85262229	0,97650171
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,89108828	0,97647971
6	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89946878	0,97647452
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,91012114	0,97647246
5	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,87339252	0,97647005
9	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,93525561	0,97640014

3	KIR3DL1 /// KIR3DL2	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,78180006	0,9763912
4	KIR2DL1	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,84732611	0,97637916
4	KIR2DL4	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,86564708	0,97633213
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,89216245	0,97628715
6	KIR2DL1	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90102829	0,97627759
7	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91746222	0,97622713
3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,81158966	0,97622224
4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,86199985	0,97619009
8	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,93318815	0,97616682
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	0,89577402	0,97608701
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87627891	0,9760341
6	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,90695634	0,97601158
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,88683062	0,97600583
4	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	0,87700372	0,97600496

7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,90368563	0,97594515
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,87172628	0,97590854
8	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92743101	0,97589562
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	0,88930657	0,97588403
4	KIR2DL4	KIR2DL3	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	0,85018713	0,97587023
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,90495219	0,97584645
5	KIR2DL3	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87176652	0,97581796
9	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	0,92177816	0,97580376
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,90374961	0,97575001
2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,75535809	0,97574475
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,8670056	0,97574048
4	KIR2DL4	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,86229873	0,97569014
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,89219293	0,97567704
3	KIR2DL4	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,83028014	0,97564235
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	0,85262779	0,97561491

5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	0,87754212	0,97555273
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	0,89843848	0,97552497
5	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88667528	0,97550115
4	KIR3DL1 /// KIR3DL2	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85677331	0,97550096
6	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90564853	0,9754716
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	0,91301264	0,97547007
8	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92283271	0,97545569
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,90832951	0,9754384
5	KIR2DL3	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87811412	0,97543525
6	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,89486283	0,97543487
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,90005084	0,97540422
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,86897415	0,97537147
4	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,82983821	0,97536342
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,91124128	0,97534666

3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,84307011	0,97534168
6	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88903995	0,97532453
8	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,93029937	0,97530392
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,91207643	0,9752857
7	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,92132244	0,97526982
5	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86874398	0,97522456
4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86570201	0,97517436
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,88851894	0,97516651
6	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,88883246	0,97515801
8	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91671217	0,97515136
6	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,8861782	0,97514886
1	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,70638337	0,97505912
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,87936191	0,97500663
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,91952554	0,97500634
4	KIR2DL3	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,84173691	0,97498145
5	KIR2DL1	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87476684	0,97494894
5	KIR2DL4	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,89271853	0,97489056
3	KIR2DL4	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,84481611	0,97486655
3	KIR2DL3	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82502146	0,97483677

7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,87556973	0,97478444
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,89396315	0,97475058
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,86655207	0,97474622
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,90351659	0,97464399
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,91261272	0,97463726
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,87079515	0,97460928
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,82168516	0,97460871
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,89073729	0,97459896
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,92267971	0,97457368
8	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,91622265	0,97455815
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,88192416	0,97455288
5	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,86604134	0,97450675

4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87090545	0,97449994
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,8879186	0,97448781
6	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89687344	0,97447542
3	KIR2DL4	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,79086068	0,97447295
3	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,82453122	0,97446907
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89275154	0,97444185
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	0,8434446	0,97441088
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	0,89237887	0,97436984
6	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,86260355	0,97436046
4	KIR2DL4	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,85225938	0,97434785
7	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91657445	0,97434405
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,89367101	0,97432684
7	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91868761	0,97432463
5	KIR3DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,86706468	0,97419732
9	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	0,90952973	0,97419632
4	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,84545513	0,9741427

5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,82559248	0,97410861
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,89460187	0,97410635
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,87058218	0,97403408
4	KIR2DL3	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85669093	0,97402646
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	0,88199806	0,97400959
5	KIR2DL4	KIR2DL3	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,89011578	0,97400173
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	0,90652265	0,97395955
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,87683992	0,97394901
5	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,87746398	0,97388106
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88238326	0,97384601
8	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	0,92416546	0,97382923
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	0,86025852	0,97382138
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,91673232	0,97380905
3	KIR2DL3	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,79736934	0,97377025
5	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,87436724	0,97375938

5	KIR2DL3	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,88352816	0,97375905
2	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,75678843	0,97371916
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,90434086	0,97371342
4	KIR2DL4	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86530487	0,9736918
2	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,7880112	0,97365097
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91267331	0,97364678
5	KIR2DL4	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,89567252	0,9736438
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,90673155	0,9736198
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,88890637	0,97354918
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,86624629	0,97353373
8	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,902441	0,97352542
6	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,90915858	0,97347238
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89626583	0,97345585
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,90645138	0,97344777

5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,86558126	0,97344089
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	0,89244515	0,97336419
3	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,85550505	0,97335412
7	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,90815955	0,97334996
4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,80197501	0,9732907
4	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,84940282	0,97325109
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,88038563	0,9732432
6	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88024897	0,97322959
5	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87085762	0,97322074
4	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,85767575	0,97319409
5	KIR2DL1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,8790249	0,97315305
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,83965896	0,97314348
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,85853525	0,97309981
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,88336944	0,97308385
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,87165667	0,97308028
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,83754248	0,9729758

5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,87605257	0,97296857
3	KIR2DL4	KIR2DL3	NA	NA	NA	NA	NA	NA	NA	NA	0,85026071	0,97295516
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,91496333	0,97294381
5	KIR2DL4	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,89097378	0,97291734
4	KIR3DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,83814758	0,97291529
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	0,8699983	0,97285055
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,88061685	0,97283326
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,90580273	0,97282031
6	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,89193646	0,97277689
7	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,9101624	0,9727766
7	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,9153447	0,97275769
6	KIR2DL4	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90329249	0,97271041
5	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,84815028	0,97268942
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	0,9092814	0,97264731
4	KIR2DL3	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,82012697	0,97256455
5	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,87796251	0,97256267

9	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	0,91350126	0,97250208
7	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91619569	0,97242148
5	KIR2DL3	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,87671544	0,97240972
4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,86322311	0,9723755
6	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,89282778	0,9722995
5	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,89104999	0,97228261
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,80903752	0,97223087
4	KIR2DL3	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,8435201	0,97222879
3	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,79591645	0,97222361
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88499364	0,97220273
6	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,86917703	0,97219433
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	0,87694126	0,97218972
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	0,89606204	0,9721848
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,89567633	0,97218045

8	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,91520787	0,97215505
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	0,84863277	0,97212992
3	KIR2DL3	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,80582668	0,97201132
5	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,8805734	0,97193802
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,91143573	0,9719206
3	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82817099	0,97185946
4	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	0,85597304	0,97184585
7	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	0,91675865	0,97179131
5	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,86460498	0,97176756
3	KIR2DL4	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,82889082	0,97166739
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,92017765	0,97165967
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,89636855	0,9716517
5	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,87214239	0,97159167
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,86899529	0,97158929
5	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,90048482	0,97156941

5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,89145666	0,97156171
5	KIR2DL4	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88484027	0,97155799
2	KIR2DL4	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,81378762	0,97145575
5	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,86727089	0,97145142
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,892214	0,97143764
4	KIR3DL1 /// KIR3DL2	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,84438566	0,97142881
6	KIR2DL3	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90061863	0,97142143
8	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	0,89414136	0,97133268
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,91308191	0,97132606
4	KIR2DL1	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,86066106	0,97130906
8	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,90753667	0,97123232
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,88473639	0,97119236
5	KIR2DL3	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88287618	0,97117492
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,82112312	0,97113282
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,91868267	0,97111683

5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,86360302	0,97110747
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	0,8295882	0,97106424
4	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85677254	0,97098791
6	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,90079675	0,97090995
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,86571987	0,97085714
3	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82742214	0,97083297
7	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,90635887	0,97081205
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,87066797	0,97081063
5	KIR2DL1	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,87974252	0,97080144
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	0,86105057	0,97078672
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	0,88224729	0,9707826
4	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	0,82039282	0,97073381
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,90844048	0,97068377
3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,79864971	0,97062372
3	KIR2DL4	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,83003445	0,97055984
5	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,87719326	0,97051603

6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,88356596	0,97049273
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,87170202	0,97043493
3	KIR2DL3	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,77518419	0,97036868
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,89814192	0,97035827
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,82684991	0,97033616
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,86816915	0,97031763
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,86342097	0,97030559
6	KIR3DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,90048578	0,97023835
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	0,88046431	0,97020912
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,90638675	0,9701913
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	0,85074102	0,97017986
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	0,88073044	0,97015583
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,89861732	0,97009083

7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,91162751	0,97002244
6	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,90134101	0,96996335
6	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,88540713	0,96987466
5	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88387631	0,96983271
3	KIR2DL4	KIR2DL3	NCR1	NA	NA	NA	NA	NA	NA	NA	0,82265993	0,96976475
4	KIR2DL4	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,86273699	0,96975525
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	0,82668014	0,96975349
8	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,91793444	0,9697441
5	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,85210859	0,96973907
7	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,88663475	0,96973827
5	KIR2DL3	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,86761943	0,96971227
4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,85834543	0,96969576
7	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,91486603	0,96968838
6	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,89804117	0,96950608
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,8455528	0,96947662
2	KIR2DL3	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,75340539	0,96946303
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,8844281	0,96945857
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,83059049	0,96945716

5	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,87749737	0,96938046
1	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,68978701	0,96937337
4	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,83616335	0,96924113
6	KIR2DL1	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	0,9035411	0,9691772
5	KIR2DL4	KIR2DL3	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,89158975	0,96916196
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,88598656	0,9691525
3	KIR3DL1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,74888385	0,96913426
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,91266974	0,9690534
8	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	0,89742817	0,96903358
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,88838238	0,9689499
3	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,82097286	0,96894348
6	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,90806421	0,96890495
5	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,87125984	0,96890162
5	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88244552	0,96888572
4	KIR2DL4	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,86363502	0,9688031
4	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,84677734	0,96872394
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,85098962	0,96870688
5	KIR2DL1	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87356025	0,96868979
3	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,78895089	0,96866267

7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,89986564	0,9685871
5	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,85287972	0,96854555
3	KIR2DL4	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,83290311	0,96850132
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,89056465	0,96846705
3	KIR3DL1 /// KIR3DL2	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,76244941	0,96843313
3	KIR2DL4	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	NA	0,85086116	0,96828792
3	KIR2DL1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,80225692	0,9682697
5	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,86905803	0,96819834
7	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	0,89742582	0,96817551
4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,7986266	0,96815729
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,84793595	0,9680955
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,86664087	0,96803768
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	0,8507539	0,96803294
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,91149497	0,96792851
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,88022095	0,9678889
4	KIR2DL3	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85696105	0,96788239

6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	0,8928449	0,96787396
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,91965544	0,96786875
4	KIR2DL3	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,84415804	0,96780752
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,86498323	0,96773486
6	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89934806	0,96764735
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,86961572	0,96759858
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,85545545	0,96755937
6	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89208582	0,96748522
5	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88255509	0,9674799
5	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,83654306	0,96744158
3	KIR2DL3	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,80978824	0,96742969
3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,80207594	0,96742125
3	KIR2DL4	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,83863716	0,96739516
7	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,91004754	0,96735461
8	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	0,88166424	0,96732943
5	KIR2DL4	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,89177384	0,96721441
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	0,87294399	0,9670689

6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,83005343	0,96699347
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,90056324	0,96698684
4	KIR2DL4	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,86509232	0,96694474
4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	0,80734389	0,96693253
4	KIR2DL4	KIR2DL3	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,86970346	0,96689532
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,91208197	0,96679805
4	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	NA	0,81398181	0,96671274
5	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,83038576	0,9665158
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88971226	0,96651315
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,84019669	0,96642984
7	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,8911517	0,96642251
5	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,89540019	0,96638464
2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,75121716	0,9663692
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,87022104	0,9662761
6	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,87789075	0,96615779

5	KIR2DL4	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,88485613	0,96597364
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,88207104	0,96593625
3	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,81837875	0,96591891
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,88959142	0,96586491
3	KIR2DL3	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,80070606	0,96585414
5	KIR2DL3	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,88598855	0,96576417
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,82179919	0,96560057
3	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	NA	0,85250053	0,96558462
6	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89419279	0,96555443
4	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,85662415	0,96551869
4	KIR3DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,83634159	0,96548267
6	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,90321007	0,96547938
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,83031915	0,96534764
7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,89005609	0,96533489
5	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,84600405	0,96517676
3	KIR2DL3	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	NA	0,81229153	0,96517545

5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	0,84370866	0,96516859
6	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,88766471	0,96514647
3	KIR2DL3	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,7955252	0,96502712
5	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,88057089	0,96493308
4	KIR3DL1 /// KIR3DL2	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,83273208	0,96486739
4	KIR2DL4	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,86839156	0,964841
4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,84946991	0,96483385
7	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,87190114	0,96481558
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	0,85144625	0,96473782
7	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	0,89845114	0,96471468
5	KIR2DL4	KIR2DL3	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,8778062	0,96456259
5	KIR2DL3	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,86923488	0,96440477
2	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,75345221	0,96437814
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,85427523	0,96432089
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	0,89113188	0,96426959
5	KIR3DS1	NCR1	SH2D1B	CD160	NA	NA	NA	NA	NA	NA	0,87055454	0,96423715
4	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,83266357	0,96420845
5	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,80918771	0,96417474
4	KIR2DL1	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85863603	0,96408309

7	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,87534332	0,96408274
3	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	NA	0,80253041	0,96401071
4	KIR2DL3	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,86044735	0,9640006
3	KIR2DL4	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,81055647	0,96392332
6	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,90962832	0,96383913
3	KIR3DS1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,78641216	0,96371949
5	KIR2DL4	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,89424209	0,9635404
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,87442503	0,96350414
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,8136683	0,96331214
5	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	0,88117622	0,96330543
3	KIR3DL1 /// KIR3DL2	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,77786614	0,96326794
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,90843518	0,96322199
4	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,84559247	0,96319894
5	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87752662	0,96317928
7	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,88519659	0,96304401

4	KIR2DL4	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,86200564	0,9629158
5	KIR2DL4	KIR2DL3	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	0,85426991	0,96287431
3	KIR2DL1	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,78297431	0,9628426
4	KIR3DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85073669	0,96267174
6	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,90012354	0,96262725
4	KIR2DL3	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,83486151	0,96261811
6	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,89517452	0,9626029
5	KIR2DL1	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87472488	0,96253503
4	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,8495898	0,96227504
3	KIR2DL3	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,76591851	0,96213487
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,82721445	0,96208627
7	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	0,85510587	0,96199947
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,88794215	0,96198682
3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,81421846	0,9619785
5	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87789823	0,96187312
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,8868715	0,9617781
5	KIR2DL3	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87824541	0,9613934
6	KIR2DL4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,88207483	0,96134932
6	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,87976776	0,96131252
2	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,6323044	0,96130681

4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,83075429	0,96129263
5	KIR2DL4	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,86310794	0,96124597
4	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,85474563	0,96114747
4	KIR3DL1 /// KIR3DL2	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85822939	0,96105794
4	KIR2DL1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85381747	0,96104105
3	KIR3DL1 /// KIR3DL2	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	0,80439584	0,96102454
2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,75278215	0,96099733
4	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,80843617	0,96090974
4	KIR2DL3	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,82071985	0,96051598
6	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,89145187	0,96047784
6	KIR2DL4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,88231354	0,96045883
2	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,7302413	0,96034289
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	0,87351479	0,96015533
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,8550289	0,96009602
5	KIR3DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88093098	0,9600758
3	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,78061583	0,95994695
6	KIR2DL4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,86249107	0,95985822

4	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,80706885	0,95977265
6	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,88937584	0,95972995
4	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,82776043	0,95966292
4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,81931693	0,95951215
5	KIR2DL3	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,83292496	0,95944673
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	0,88834247	0,9592298
6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,89055732	0,95911333
5	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,88012023	0,95899351
4	KIR2DL1	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,82240108	0,95859156
5	KIR2DL1	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	0,87667713	0,9585576
3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,79670195	0,95849112
6	KIR2DL4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,87324574	0,95844716
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	0,83815566	0,95836302
4	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,78443589	0,95815897
4	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,81900576	0,958043
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,85780147	0,95772742

6	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,87869888	0,95767043
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	0,83024679	0,95751342
6	KIR2DL3	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,84227045	0,95698221
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	0,84430131	0,95691447
4	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,79977009	0,95633747
6	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,84421345	0,95621089
2	KIR2DL4	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,79280673	0,95613871
4	KIR2DL4	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85790431	0,95599091
3	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,80448662	0,95558079
4	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,80725039	0,95542074
5	KIR2DL4	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,89018892	0,95520515
6	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	0,85234008	0,95492233
4	KIR2DL4	KIR2DL3	NCR1	NA	NA	NA	NA	NA	NA	NA	0,86127695	0,95423433
4	KIR2DL3	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,85589194	0,95339009
5	KIR2DL3	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87612511	0,95326892
5	KIR2DL4	KIR2DL3	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,87026509	0,95290581
2	KIR2DL3	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,74804569	0,95278866
3	KIR2DL4	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,82075822	0,95235745
4	KIR2DL4	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,86404371	0,9518104
5	KIR3DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87734854	0,95104187
5	KIR2DL4	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,87881516	0,95094899

5	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,87001346	0,95062743
4	KIR3DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,84355331	0,95055981
4	KIR2DL4	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	NA	0,87260992	0,95042885
3	KIR2DL4	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,84753965	0,95030017
4	KIR3DL1 /// KIR3DL2	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,84237593	0,95008931
5	KIR2DL4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,8807196	0,95004049
3	KIR2DL3	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,7710152	0,94996026
4	KIR2DL4	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,84642293	0,9497987
5	KIR2DL1	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	0,8730616	0,94959879
5	KIR2DL4	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,86231116	0,94917636
4	KIR2DL1	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,84726203	0,94917576
4	KIR2DL3	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,83703731	0,94888072
5	KIR2DL3	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,84663033	0,94880936
2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,75675657	0,94847946
5	KIR2DL3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,84256954	0,94791779
4	KIR2DL3	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	NA	0,83563903	0,9475306
3	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,78456843	0,94701058
5	KIR2DL3	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,82652192	0,94691262
4	KIR3DS1	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	0,85524404	0,94674973
4	KIR2DL3	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,81163687	0,9466551

5	KIR3DL1 /// KIR3DL2	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,84558123	0,94617638
2	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,76603657	0,94616701
3	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,78418379	0,94585249
3	KIR2DL3	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,80882961	0,94569372
3	KIR3DS1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,7675957	0,94568834
4	KIR3DL1 /// KIR3DL2	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,83174	0,94547097
5	KIR2DL1	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,83519151	0,94506473
4	KIR2DL1	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,81582567	0,94440771
5	KIR3DL1 /// KIR3DL2	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	0,8390395	0,94435518
2	KIR2DL4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,77416238	0,94429958
1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,64441569	0,94393288
4	KIR3DL1 /// KIR3DL2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,82616251	0,94335615
3	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,76577262	0,94306138
3	KIR3DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,78210742	0,94260114
2	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,72928506	0,94220637
3	NCR1	SH2D1B	NA	NA	NA	NA	NA	NA	NA	NA	0,79805285	0,94189877
3	KIR3DL1 /// KIR3DL2	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,7834259	0,94146373
3	KIR2DL1	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	0,79907024	0,93995161
2	KIR2DL3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,75983711	0,9342681
4	KIR2DL4	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,86146988	0,93195221
2	KIR3DL1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,67104577	0,9308818
2	KIR3DL1 /// KIR3DL2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,70222981	0,92917851

2	KIR2DL1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,73107306	0,9284614
4	KIR3DS1	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	0,84009401	0,92832666
4	KIR2DL3	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,82408471	0,92808082
4	KIR3DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,82497251	0,92538818
4	KIR3DL1 /// KIR3DL2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,82150016	0,92487851
4	KIR2DL1	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	0,81391125	0,92294678
3	KIR2DL4	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,83315011	0,9203775
2	CD160	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,60229015	0,91539667
3	KIR2DL3	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,80388117	0,91358387
2	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,7167987	0,9120559
3	KIR3DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,78866404	0,91014085
3	KIR3DL1 /// KIR3DL2	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,79397066	0,90971314
3	NCR1	CD160	NA	NA	NA	NA	NA	NA	NA	NA	0,77327884	0,90746482
3	KIR2DL1	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,78163382	0,90714012
3	KIR3DS1	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	0,78285921	0,86348366
2	KIR3DS1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,70596942	0,86325686
1	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,62614327	0,85198674
2	NCR1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,70377843	0,71840551
1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,43670266	0,26130817

Combination of genes for identification of T cells

4	TRAT1	SIRPG	ICOS	CD28	NA	NA	NA	NA	NA	NA	0,8798215	0,99738871
2	TRAT1	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,79861814	0,99724241
3	TRAT1	SIRPG	CD28	NA	NA	NA	NA	NA	NA	NA	0,86632136	0,99723586
3	TRAT1	CD6	CD28	NA	NA	NA	NA	NA	NA	NA	0,88277553	0,99687047

4	CD3D	TRAT1	ICOS	CD28	NA	NA	NA	NA	NA	NA	0,89191247	0,99661201
4	TRAT1	CD3G	ICOS	CD28	NA	NA	NA	NA	NA	NA	0,88327837	0,9965735
5	TRAT1	SIRPG	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	0,8836644	0,99643474
5	TRAT1	SIRPG	ICOS	CD6	CD28	NA	NA	NA	NA	NA	0,91386967	0,99641004
3	TRAT1	ICOS	CD28	NA	NA	NA	NA	NA	NA	NA	0,84244075	0,99605627
4	TRAT1	SIRPG	CD6	CD28	NA	NA	NA	NA	NA	NA	0,91009568	0,99601113
5	CD3D	TRAT1	SIRPG	ICOS	CD28	NA	NA	NA	NA	NA	0,90542062	0,99599501
4	TRAT1	SIRPG	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,880905	0,99595475
4	TRAT1	ICOS	CD6	CD28	NA	NA	NA	NA	NA	NA	0,89738039	0,99595393
5	TRAT1	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	0,88749215	0,99572014
6	TRAT1	SIRPG	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	0,91213091	0,99571113
5	CD3D	TRAT1	ICOS	CD6	CD28	NA	NA	NA	NA	NA	0,91312836	0,99563004
6	CD3D	TRAT1	SIRPG	ICOS	CTLA4	CD28	NA	NA	NA	NA	0,90701484	0,99546212
5	CD3D	TRAT1	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	0,89440382	0,99542518
5	TRAT1	CD3G	ICOS	CD6	CD28	NA	NA	NA	NA	NA	0,91212158	0,99540253
4	TRAT1	SIRPG	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,87386529	0,99528204
6	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	NA	0,90306128	0,99525895
5	TRAT1	SIRPG	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,91434605	0,99514609
3	CD3D	TRAT1	ICOS	NA	NA	NA	NA	NA	NA	NA	0,89363942	0,99514409
4	TRAT1	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,85522959	0,99509717
6	TRAT1	SIRPG	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	NA	0,90341823	0,99504812
5	TRAT1	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	0,88658294	0,99503048
5	TRAT1	SIRPG	CD3G	ICOS	CD28	NA	NA	NA	NA	NA	0,90127003	0,99500803
5	TRAT1	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,89637189	0,9949748
7	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	0,90699669	0,99497129
3	TRAT1	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	0,84058339	0,99497068
6	CD3D	TRAT1	SIRPG	ICOS	CD6	CD28	NA	NA	NA	NA	0,92087181	0,99493582
4	TRAT1	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,89366921	0,99488334
6	TRAT1	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	0,91244318	0,99488107

4	TRAT1	CD3G	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,8691429	0,99487041
6	CD3D	TRAT1	SIRPG	ICOS	THEMIS	CD28	NA	NA	NA	NA	0,908657	0,99485178
6	CD3D	TRAT1	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	0,91393984	0,9947783
3	TRAT1	SIRPG	ICOS	NA	NA	NA	NA	NA	NA	NA	0,88141023	0,99476459
5	TRAT1	SIRPG	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,90973013	0,9947279
7	CD3D	TRAT1	SIRPG	ICOS	CD6	CTLA4	CD28	NA	NA	NA	0,9218713	0,99465175
5	CD3D	TRAT1	SIRPG	THEMIS	CD28	NA	NA	NA	NA	NA	0,90487829	0,99464426
5	TRAT1	SIRPG	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,8884824	0,99461052
1	TRAT1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,81700729	0,99460459
3	TRAT1	SIRPG	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,87728197	0,9945767
6	TRAT1	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,89322564	0,9945532
6	TRAT1	SIRPG	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91095415	0,99454757
7	CD3D	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	0,91119851	0,99451542
5	TRAT1	SIRPG	CD3G	THEMIS	CD28	NA	NA	NA	NA	NA	0,89408053	0,99450831
5	TRAT1	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91425353	0,99450573
7	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	NA	0,92181882	0,99446783
6	TRAT1	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	0,91222378	0,99441838
4	TRAT1	SIRPG	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	0,88410996	0,99436635
4	TRAT1	ICOS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,88886777	0,99434602
3	CD3D	TRAT1	CD28	NA	NA	NA	NA	NA	NA	NA	0,88475957	0,99433173
8	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	0,9236679	0,99432542
6	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,90467274	0,99428798
7	TRAT1	SIRPG	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,92733425	0,994263
7	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	CD28	NA	NA	NA	0,92345385	0,99422769
7	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	NA	0,92179748	0,99421078
5	TRAT1	SIRPG	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	0,88721206	0,99420588
6	TRAT1	SIRPG	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91627342	0,99419907
6	CD3D	TRAT1	SIRPG	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91153386	0,99416777
7	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,91282286	0,99416054

5	TRAT1	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,88669521	0,99415757
6	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,89255223	0,99410389
6	CD3D	TRAT1	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	NA	0,90523464	0,9940855
5	TRAT1	CD3G	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,9019252	0,99407875
7	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,91492627	0,99407615
6	TRAT1	SIRPG	CD3G	ICOS	CD6	CD28	NA	NA	NA	NA	0,92126262	0,99401665
4	SIRPG	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,87008023	0,99401634
8	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	0,9249025	0,99401041
6	TRAT1	SIRPG	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	0,91568695	0,9939863
4	CD3D	TRAT1	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,88771712	0,99394298
6	TRAT1	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91843162	0,99394218
8	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92809142	0,99392359
2	TRAT1	ICOS	NA	NA	NA	NA	NA	NA	NA	NA	0,85332591	0,99387156
7	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,91639175	0,99387
6	CD3D	TRAT1	SIRPG	CD6	THEMIS	CD28	NA	NA	NA	NA	0,92131375	0,99386195
7	CD3D	TRAT1	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	0,90939501	0,99385592
5	TRAT1	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,89544172	0,99385552
5	CD3D	TRAT1	SIRPG	ICOS	THEMIS	NA	NA	NA	NA	NA	0,90935609	0,99384767
4	TRAT1	CD3G	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	0,89124304	0,99384177
6	TRAT1	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91421281	0,99383084
5	TRAT1	SIRPG	ICOS	CD5	CD28	NA	NA	NA	NA	NA	0,90655404	0,99382433
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	0,91725029	0,99381848
6	TRAT1	SIRPG	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,90702869	0,99379599
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	0,91396759	0,99376835
5	CD3D	TRAT1	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	0,89619764	0,99375648
5	TRAT1	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,89069669	0,99374771
4	CD3D	TRAT1	CD6	CD28	NA	NA	NA	NA	NA	NA	0,90912077	0,99369135
6	TRAT1	SIRPG	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	0,92356614	0,99367827
3	CD3D	TRAT1	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,89130327	0,99365616

4	CD3D	TRAT1	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	0,8958562	0,99364313
6	TRAT1	SIRPG	CD3G	CD6	THEMIS	CD28	NA	NA	NA	NA	0,9164043	0,99362481
6	TRAT1	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91212583	0,99360679
7	TRAT1	SIRPG	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,92388926	0,99360154
7	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,92329998	0,99358757
7	CD3D	TRAT1	SIRPG	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,92618153	0,99358018
4	CD3D	TRAT1	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,89398087	0,99355672
5	CD3D	TRAT1	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,91076254	0,9935352
5	SIRPG	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,90645411	0,9935229
6	CD3D	TRAT1	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	0,91574636	0,99351389
6	CD3D	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	0,91282441	0,99350228
4	TRAT1	SIRPG	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,89397388	0,99348306
6	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	0,90936742	0,99347756
6	CD3D	TRAT1	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,9001827	0,99346821
5	TRAT1	SIRPG	CD3G	ICOS	THEMIS	NA	NA	NA	NA	NA	0,90450633	0,99345859
7	TRAT1	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,91964725	0,99343549
3	SIRPG	ICOS	CD28	NA	NA	NA	NA	NA	NA	NA	0,86450947	0,99341924
7	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	NA	0,91901498	0,99339942
5	TRAT1	SIRPG	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,90434273	0,99337599
6	TRAT1	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,89937189	0,99337572
5	CD3D	TRAT1	SIRPG	CTLA4	CD28	NA	NA	NA	NA	NA	0,90926298	0,99335881
5	TRAT1	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,89750338	0,99332409
8	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	0,92214483	0,99330573
4	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,87502843	0,99329762
5	CD3D	TRAT1	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,89801934	0,99328424
6	CD3D	TRAT1	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	NA	0,90632181	0,99328021
7	CD3D	TRAT1	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,91761233	0,99325953
6	TRAT1	SIRPG	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,92322751	0,99323755
5	TRAT1	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,90942534	0,99323137

5	TRAT1	SIRPG	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	0,9134268	0,99322722
9	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	0,92758745	0,99321318
7	CD3D	TRAT1	SIRPG	ICOS	THEMIS	CD5	CD28	NA	NA	NA	0,92108371	0,99320027
5	TRAT1	SIRPG	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	0,91302684	0,9931863
4	CD3D	TRAT1	SIRPG	THEMIS	NA	NA	NA	NA	NA	NA	0,90538525	0,99317908
5	CD3D	TRAT1	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,91536266	0,99314557
8	CD3D	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92294698	0,99314299
6	CD3D	TRAT1	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91351623	0,99313483
5	CD3D	SIRPG	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	0,90248236	0,99312827
4	SIRPG	ICOS	CD6	CD28	NA	NA	NA	NA	NA	NA	0,90918898	0,99312202
6	TRAT1	SIRPG	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91245898	0,99311885
4	CD3D	TRAT1	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	0,89965015	0,99309706
5	CD3D	TRAT1	SIRPG	ICOS	CTLA4	NA	NA	NA	NA	NA	0,90638977	0,99306341
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	0,92484855	0,99306083
3	TRAT1	CD3G	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,87112694	0,99302974
4	TRAT1	SIRPG	ICOS	CD6	NA	NA	NA	NA	NA	NA	0,91393985	0,99302775
4	TRAT1	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,9028124	0,99302403
4	CD3D	TRAT1	SIRPG	CD28	NA	NA	NA	NA	NA	NA	0,90349588	0,99301919
6	CD3D	TRAT1	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91742329	0,99301712
4	TRAT1	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,88635832	0,99301676
7	CD3D	TRAT1	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,92489681	0,99300901
6	TRAT1	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	0,90929404	0,99300012
3	TRAT1	ICOS	CD6	NA	NA	NA	NA	NA	NA	NA	0,90700861	0,99299467
7	TRAT1	SIRPG	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92903244	0,99298913
4	TRAT1	SIRPG	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,91289021	0,99295885
5	CD3D	TRAT1	CD3G	ICOS	CD28	NA	NA	NA	NA	NA	0,90295801	0,99294164
7	TRAT1	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,91258648	0,99293178
6	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,90669487	0,99292645
5	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,89599899	0,99291901

3	TRAT1	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,85683535	0,99291841
4	TRAT1	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,88033536	0,99291126
8	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	0,92997957	0,99290552
6	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,91577159	0,99289165
4	TRAT1	CD3G	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,88189754	0,99288332
4	TRAT1	SIRPG	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	0,89120149	0,99288318
9	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	0,9319578	0,99287916
7	CD3D	TRAT1	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,91574756	0,99287082
4	CD3D	TRAT1	ICOS	CD6	NA	NA	NA	NA	NA	NA	0,91140118	0,99285313
8	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	0,9212912	0,99285082
5	SIRPG	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	0,89773294	0,99283591
7	TRAT1	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,9238924	0,9928061
8	CD3D	TRAT1	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92698392	0,99276364
4	CD3D	TRAT1	SIRPG	ICOS	NA	NA	NA	NA	NA	NA	0,9027907	0,99274699
8	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92634885	0,99274666
6	CD3D	TRAT1	SIRPG	CD6	CTLA4	CD28	NA	NA	NA	NA	0,92466112	0,99274273
5	TRAT1	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,92201329	0,99272409
5	CD3D	TRAT1	SIRPG	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91426331	0,99271342
6	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	NA	NA	NA	NA	0,92283391	0,9926715
7	CD3D	TRAT1	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	NA	0,91976658	0,99265775
5	TRAT1	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,89902428	0,99264937
7	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	0,92574491	0,99264225
6	TRAT1	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91828556	0,9926381
7	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	NA	0,91884042	0,9926356
6	TRAT1	SIRPG	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	0,92728591	0,99263344
3	CD3G	ICOS	CD28	NA	NA	NA	NA	NA	NA	NA	0,86817411	0,99262357
5	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,90608797	0,99258064
9	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	0,93209436	0,99257025
5	TRAT1	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	0,91546874	0,99255893

5	CD3D	TRAT1	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,90350479	0,99254931
5	TRAT1	SIRPG	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,92144708	0,99253522
7	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	0,92536983	0,99251956
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	0,9147101	0,99249409
4	TRAT1	CD3G	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	0,89064664	0,99248833
4	TRAT1	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,90050848	0,99245638
7	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,92971427	0,99245601
6	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,91863151	0,99245081
5	TRAT1	CD3G	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,91123736	0,99245042
6	CD3D	SIRPG	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	0,91888252	0,992419
3	SIRPG	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	0,86316774	0,99241492
5	CD3D	TRAT1	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	0,91417373	0,99241077
4	CD3D	SIRPG	ICOS	CD28	NA	NA	NA	NA	NA	NA	0,90056906	0,99240116
5	TRAT1	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,89495368	0,9923987
6	CD3D	TRAT1	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,90753957	0,99239666
5	SIRPG	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	0,90346977	0,99239522
6	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,91988657	0,99239257
3	TRAT1	THEMIS	CD28	NA	NA	NA	NA	NA	NA	NA	0,82875213	0,99237286
7	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,92501515	0,9923712
8	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	0,92990725	0,99235565
5	CD3D	TRAT1	SIRPG	CD6	CD28	NA	NA	NA	NA	NA	0,91981414	0,9923423
4	CD3D	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,88537661	0,99232128
6	CD3D	TRAT1	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	0,91108042	0,99229261
4	TRAT1	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,85892543	0,99229155
4	TRAT1	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,89214346	0,9922856
5	CD3D	TRAT1	CD3G	ICOS	THEMIS	NA	NA	NA	NA	NA	0,90569101	0,99227717
5	TRAT1	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,90486346	0,99226763
5	CD3D	TRAT1	CD3G	THEMIS	CD28	NA	NA	NA	NA	NA	0,89813319	0,99226214
6	CD3D	TRAT1	CD3G	ICOS	CD6	CD28	NA	NA	NA	NA	0,91683737	0,9922428

5	TRAT1	SIRPG	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	0,91916855	0,99223587
3	TRAT1	CD3G	CD28	NA	NA	NA	NA	NA	NA	NA	0,86397842	0,992228
6	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	NA	0,92206727	0,9922198
7	CD3D	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	0,91707146	0,99220749
5	CD3D	TRAT1	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	0,9174144	0,99219442
4	CD3D	TRAT1	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,90302692	0,99217582
6	TRAT1	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,90316661	0,99217545
6	TRAT1	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92358417	0,99212738
4	SIRPG	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,90804876	0,99211046
6	CD3D	SIRPG	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91143269	0,99207839
5	CD3D	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,90838448	0,99205657
6	SIRPG	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	0,91883722	0,99203906
2	TRAT1	CD6	NA	NA	NA	NA	NA	NA	NA	NA	0,89722732	0,99197493
4	CD3D	TRAT1	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,91173603	0,99197199
5	TRAT1	SIRPG	CD3G	CTLA4	CD28	NA	NA	NA	NA	NA	0,90292093	0,99196629
6	CD3D	TRAT1	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92006394	0,99196386
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	0,91760667	0,99193513
5	TRAT1	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,90059338	0,9919318
4	TRAT1	CD3G	CD6	CD28	NA	NA	NA	NA	NA	NA	0,90187072	0,99192903
7	CD3D	TRAT1	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,92133183	0,99192835
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	0,92537556	0,99192233
5	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,90792052	0,99191118
4	CD3G	ICOS	CD6	CD28	NA	NA	NA	NA	NA	NA	0,90444084	0,99190911
6	CD3D	TRAT1	SIRPG	ICOS	CD6	CTLA4	NA	NA	NA	NA	0,92028228	0,99189488
7	CD3D	TRAT1	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,923021	0,99185454
3	TRAT1	SIRPG	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,88519704	0,99184401
5	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,88933409	0,99184354
3	TRAT1	CD3G	ICOS	NA	NA	NA	NA	NA	NA	NA	0,88899338	0,99183051
6	SIRPG	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	0,92374729	0,99181663

7	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92935925	0,99180506
3	CD3D	ICOS	CD28	NA	NA	NA	NA	NA	NA	NA	0,88165987	0,9917973
6	CD3D	TRAT1	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91136405	0,99177658
7	CD3D	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,92599806	0,99177119
6	SIRPG	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91305625	0,9917683
5	TRAT1	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,87079149	0,9917653
6	CD3D	TRAT1	CD3G	CD6	THEMIS	CD28	NA	NA	NA	NA	0,91383453	0,99170083
4	CD3D	ICOS	CD6	CD28	NA	NA	NA	NA	NA	NA	0,90604889	0,99169554
8	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	0,92789505	0,99168781
7	CD3D	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	0,91755058	0,99167436
6	CD3D	TRAT1	SIRPG	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92755961	0,99167375
5	CD3D	TRAT1	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	0,91502494	0,99167309
5	CD3D	SIRPG	ICOS	CD6	CD28	NA	NA	NA	NA	NA	0,91680779	0,99167104
6	CD3D	TRAT1	SIRPG	CD3G	THEMIS	CD28	NA	NA	NA	NA	0,9100072	0,991665
6	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91457397	0,99164503
6	CD3D	TRAT1	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	0,92064035	0,99163484
5	CD3D	TRAT1	SIRPG	CD6	THEMIS	NA	NA	NA	NA	NA	0,91985596	0,99160393
4	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,88286614	0,99158512
3	SIRPG	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,86137403	0,99157323
5	SIRPG	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,9039855	0,99156351
7	CD3D	TRAT1	SIRPG	ICOS	CTLA4	CD5	CD28	NA	NA	NA	0,91924397	0,99153732
6	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD28	NA	NA	NA	NA	0,91176413	0,99153448
6	SIRPG	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,92930739	0,9915121
6	TRAT1	SIRPG	CD3G	CD6	CTLA4	CD28	NA	NA	NA	NA	0,92311371	0,99150763
5	CD3D	SIRPG	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	0,90975765	0,99148377
7	CD3D	TRAT1	SIRPG	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	0,92361035	0,99148079
8	CD3D	TRAT1	SIRPG	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	0,92837524	0,99146751
2	TRAT1	THEMIS	NA	NA	NA	NA	NA	NA	NA	NA	0,83179274	0,99145714
6	CD3D	TRAT1	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,91810727	0,9914536

7	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	0,92289091	0,99143229
5	CD3D	TRAT1	ICOS	CD5	CD28	NA	NA	NA	NA	NA	0,90989077	0,99138929
6	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	NA	NA	NA	NA	0,91267859	0,99135834
5	CD3D	TRAT1	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,92085639	0,99134144
5	TRAT1	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	0,91455279	0,99133879
4	TRAT1	SIRPG	CD3G	THEMIS	NA	NA	NA	NA	NA	NA	0,89396218	0,99133108
6	CD3D	CD3G	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,90838222	0,99132969
5	SIRPG	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,91294403	0,99132417
3	TRAT1	CD6	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,8944801	0,99128991
7	CD3D	TRAT1	SIRPG	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92430594	0,99128979
4	SIRPG	CD3G	ICOS	CD28	NA	NA	NA	NA	NA	NA	0,89528132	0,99127362
6	CD3D	TRAT1	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	0,92387432	0,99126309
5	TRAT1	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91665251	0,99123812
8	CD3D	TRAT1	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92094519	0,99123519
6	CD3D	SIRPG	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	0,92495674	0,99123337
3	TRAT1	THEMIS	CD5	NA	NA	NA	NA	NA	NA	NA	0,88710646	0,99122727
4	TRAT1	CD3G	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,90305076	0,99122649
8	CD3D	TRAT1	SIRPG	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,93330268	0,99122443
6	CD3D	TRAT1	SIRPG	ICOS	THEMIS	CD5	NA	NA	NA	NA	0,92016086	0,99122067
5	TRAT1	SIRPG	CD3G	ICOS	CTLA4	NA	NA	NA	NA	NA	0,903864	0,99121676
4	TRAT1	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,91096521	0,99119813
7	CD3D	TRAT1	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,92780877	0,99117473
5	CD3D	TRAT1	SIRPG	ICOS	CD6	NA	NA	NA	NA	NA	0,91629523	0,99117455
6	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91746671	0,99117136
7	CD3D	TRAT1	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92738812	0,99116414
4	TRAT1	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,85901269	0,99115921

8	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	0,92812469	0,99115696
5	SIRPG	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,91789507	0,99114345
4	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,8822139	0,99113582
9	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	0,92927319	0,9911228
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	0,92718175	0,99112123
6	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	NA	0,91803017	0,99111941
7	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	CD28	NA	NA	NA	0,92184257	0,99110889
6	SIRPG	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91875344	0,99110616
5	CD3D	SIRPG	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,91242363	0,99109485
8	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	0,93145379	0,99108916
6	CD3D	TRAT1	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,92098087	0,99108871
5	SIRPG	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,90786384	0,99107874
5	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,91232682	0,99107769
9	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	0,92622882	0,99104584
6	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,9246289	0,99104185
6	CD3D	TRAT1	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91572715	0,99101666
4	SIRPG	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,88424663	0,99101094
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	CD28	NA	NA	NA	0,92250571	0,99099847
2	TRAT1	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	0,84682548	0,99097411
5	SIRPG	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,8893757	0,99096413
5	TRAT1	SIRPG	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,9170253	0,99095739

7	CD3D	CD3G	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,92189584	0,99095693
7	TRAT1	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,9236027	0,99093123
3	SIRPG	CD6	CD28	NA	NA	NA	NA	NA	NA	NA	0,89902066	0,99090917
6	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92543329	0,99090126
5	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,90441163	0,9909
10	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	0,93310568	0,99087587
5	TRAT1	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91404169	0,9908744
5	SIRPG	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,89950887	0,99086853
7	CD3D	TRAT1	SIRPG	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,92804883	0,99085564
6	TRAT1	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,91612596	0,99085345
6	CD3D	TRAT1	SIRPG	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91895894	0,99084412
5	CD3D	TRAT1	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,90866312	0,9908304
7	CD3D	TRAT1	SIRPG	ICOS	CD6	CD5	CD28	NA	NA	NA	0,92582712	0,9908089
6	CD3D	SIRPG	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	NA	0,91410687	0,99080653
6	CD3D	SIRPG	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,9277799	0,99080159
4	TRAT1	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,90752118	0,99079567
5	CD3D	SIRPG	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91181059	0,99078213
4	TRAT1	SIRPG	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,90614669	0,99077957
4	TRAT1	SIRPG	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,91774217	0,99077011
6	TRAT1	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,90915943	0,99076813
5	TRAT1	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,91481599	0,99076467

7	CD3D	TRAT1	SIRPG	ICOS	CD6	THEMIS	CD5	NA	NA	NA	0,92734818	0,99076118
7	CD3D	TRAT1	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	NA	0,91764989	0,99076111
3	TRAT1	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,86572037	0,99075587
7	CD3D	SIRPG	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92380825	0,99074226
7	TRAT1	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92494371	0,99073871
6	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91905416	0,99072651
3	TRAT1	CD6	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,90266892	0,99071821
6	CD3D	TRAT1	SIRPG	ICOS	CD5	CD28	NA	NA	NA	NA	0,91753956	0,99071778
6	TRAT1	SIRPG	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,93130324	0,99071553
8	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	0,92589481	0,99070429
8	CD3D	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,93257549	0,9907017
6	TRAT1	SIRPG	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92628419	0,99063984
4	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,87991921	0,99062302
5	SIRPG	CD3G	ICOS	CD6	CD28	NA	NA	NA	NA	NA	0,91749706	0,99061379
5	TRAT1	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,92349844	0,99061168
6	TRAT1	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,90984606	0,99060886
4	TRAT1	ICOS	CD6	CD5	NA	NA	NA	NA	NA	NA	0,91235322	0,99059547
7	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,92819432	0,9905844
5	CD3D	CD3G	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	0,90383761	0,99057348
3	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	0,82394716	0,99055753
4	TRAT1	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,89347178	0,99053978

7	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,9209175	0,99052343
7	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	0,92273491	0,99052284
3	ICOS	CD6	CD28	NA	NA	NA	NA	NA	NA	NA	0,88279762	0,99052068
5	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,91053697	0,99051345
7	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92227294	0,9905064
8	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,93223637	0,99050581
4	TRAT1	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,90294688	0,99048567
5	TRAT1	SIRPG	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,9213695	0,99047636
4	TRAT1	CD6	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90393207	0,99043513
5	TRAT1	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	0,91223395	0,99043453
8	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,93307922	0,99042744
2	TRAT1	SIRPG	NA	NA	NA	NA	NA	NA	NA	NA	0,87069197	0,99040781
4	SIRPG	CD3G	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,89072646	0,99039988
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	0,92251677	0,99039379
5	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,91853218	0,99036174
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	0,92325648	0,9903557
7	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92636889	0,99034847
5	TRAT1	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,90918448	0,99034269
3	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	0,87354046	0,99034073
8	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	0,92956496	0,99031143
4	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89999242	0,99031022

6	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	NA	0,92129663	0,99030602
5	TRAT1	SIRPG	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	0,90675134	0,99030324
2	SIRPG	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,834124	0,99030204
4	SIRPG	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,91115019	0,99029753
7	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	NA	0,92488559	0,99029722
6	CD3D	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91749144	0,9902757
4	TRAT1	CD3G	ICOS	CD6	NA	NA	NA	NA	NA	NA	0,91342347	0,99027476
4	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,89270105	0,99027195
7	TRAT1	SIRPG	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	NA	0,91855677	0,99024934
6	TRAT1	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91622549	0,99024851
9	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	0,9299533	0,99024752
6	TRAT1	SIRPG	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	0,921982	0,99024426
6	CD3D	CD3G	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	0,91811539	0,99023353
6	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91189759	0,99021974
8	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	0,93224702	0,99020787
7	CD3D	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92683996	0,99020471
4	SIRPG	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,90051623	0,99019327
5	SIRPG	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,91916269	0,99018052
3	CD3D	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,88129112	0,99017631
4	TRAT1	SIRPG	CD3G	CD28	NA	NA	NA	NA	NA	NA	0,89327858	0,99017166
6	SIRPG	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,93053559	0,99016907

4	CD3D	SIRPG	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,90525912	0,99016761
5	TRAT1	SIRPG	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,90862751	0,99016489
6	TRAT1	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	0,9238703	0,9901489
5	SIRPG	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,91453957	0,99012579
5	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,89586446	0,99011031
5	CD3D	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	NA	NA	0,90086445	0,99008021
7	CD3D	SIRPG	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,93012405	0,99007916
3	TRAT1	ICOS	CD5	NA	NA	NA	NA	NA	NA	NA	0,89528191	0,99007567
6	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92514153	0,99007052
5	SIRPG	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91590245	0,99004905
6	TRAT1	CD3G	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	0,92163104	0,99003104
5	TRAT1	SIRPG	CD3G	CD6	CD28	NA	NA	NA	NA	NA	0,91671137	0,99002347
5	TRAT1	SIRPG	CD3G	CD6	THEMIS	NA	NA	NA	NA	NA	0,91495622	0,99001909
4	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	0,87469038	0,98999428
6	CD3D	SIRPG	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	0,92223714	0,98999264
6	CD3D	SIRPG	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92521955	0,98998974
4	TRAT1	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,87568926	0,98998825
5	CD3D	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,89807492	0,9899847
5	CD3D	SIRPG	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,92199117	0,98998298
5	SIRPG	CD3G	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,91585331	0,98995916
4	CD3D	SIRPG	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	0,89723062	0,98994142

6	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92878111	0,98993344
6	CD3D	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91544616	0,98993199
5	TRAT1	CD3G	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,89887526	0,98993103
4	CD3D	SIRPG	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	0,90826756	0,9898575
4	TRAT1	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	0,88721275	0,98985397
5	SIRPG	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91309143	0,98980935
2	CD3D	ICOS	NA	NA	NA	NA	NA	NA	NA	NA	0,87350288	0,98975062
4	SIRPG	CD3G	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	0,90267303	0,98974233
6	CD3D	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	NA	NA	0,91556181	0,98973089
7	TRAT1	SIRPG	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,92551359	0,98969218
3	SIRPG	THEMIS	CD28	NA	NA	NA	NA	NA	NA	NA	0,86547947	0,98967297
6	CD3D	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,9242016	0,98967218
4	TRAT1	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,9089831	0,98965104
6	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,92330692	0,98961364
6	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	NA	0,91863284	0,98960342
4	CD3G	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,89600804	0,98960044
5	CD3D	TRAT1	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,9097367	0,98956437
6	TRAT1	SIRPG	CD3G	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91326145	0,98954287
5	TRAT1	CD3G	ICOS	CD5	CD28	NA	NA	NA	NA	NA	0,90776443	0,98952349
4	SIRPG	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,88532927	0,98952027
6	CD3D	SIRPG	CD3G	ICOS	CTLA4	CD28	NA	NA	NA	NA	0,91161269	0,98951038

5	TRAT1	SIRPG	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91957353	0,98950802
5	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91701015	0,98950276
7	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,93042895	0,9895005
3	CD3G	THEMIS	CD28	NA	NA	NA	NA	NA	NA	NA	0,85375915	0,98942985
6	SIRPG	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	0,9201824	0,98940888
5	CD3D	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,91606632	0,9893953
5	SIRPG	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,92267717	0,98936713
3	SIRPG	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,88950025	0,98935352
7	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	NA	0,92774527	0,98934173
5	CD3D	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,91723803	0,98932463
4	SIRPG	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,91290738	0,98929175
4	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89306622	0,98929113
5	CD3D	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,90866119	0,98924669
5	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,90887697	0,98924613
4	SIRPG	ICOS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89801405	0,98923846
6	CD3D	SIRPG	CD3G	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	0,91639379	0,9892071
4	SIRPG	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,89172333	0,98918509
5	SIRPG	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,92464094	0,98917738
5	CD3D	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,91360102	0,98915488
7	CD3D	SIRPG	CD3G	ICOS	CD6	CTLA4	CD28	NA	NA	NA	0,92274162	0,98914904
3	CD3G	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,88608725	0,98913743

3	TRAT1	SIRPG	CD6	NA	NA	NA	NA	NA	NA	NA	0,90954506	0,98910672
5	SIRPG	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91985892	0,98909373
4	CD3D	SIRPG	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,90505797	0,98907072
6	CD3D	SIRPG	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,91744655	0,98906176
5	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91662333	0,98905022
4	CD3D	SIRPG	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,91403877	0,98902846
5	CD3D	SIRPG	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,9216379	0,98902662
6	CD3D	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	0,91767219	0,98902621
5	CD3D	TRAT1	CD3G	ICOS	CTLA4	NA	NA	NA	NA	NA	0,90630128	0,98902449
5	TRAT1	SIRPG	ICOS	CD6	CD5	NA	NA	NA	NA	NA	0,91724583	0,98901611
7	TRAT1	SIRPG	CD3G	ICOS	CD6	CD5	CD28	NA	NA	NA	0,92727636	0,98900247
2	CD6	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,83986171	0,98898905
5	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,92100182	0,98895314
4	TRAT1	SIRPG	CD3G	ICOS	NA	NA	NA	NA	NA	NA	0,90016281	0,98893517
3	CD3G	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,87143696	0,98891347
6	CD3D	TRAT1	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92213208	0,98889098
5	CD3D	SIRPG	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	0,92127744	0,98888419
4	CD3D	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,89546525	0,988847
4	CD3D	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,90325726	0,98882028
3	TRAT1	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,86644133	0,988811
6	CD3D	TRAT1	CD3G	CD6	CTLA4	CD28	NA	NA	NA	NA	0,91992564	0,98879216

7	CD3D	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	0,92834634	0,98879152
4	SIRPG	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,92223739	0,98874414
4	TRAT1	SIRPG	ICOS	CD5	NA	NA	NA	NA	NA	NA	0,90413892	0,9887005
5	CD3D	TRAT1	CD3G	CTLA4	CD28	NA	NA	NA	NA	NA	0,90579722	0,98869343
2	SIRPG	ICOS	NA	NA	NA	NA	NA	NA	NA	NA	0,84976106	0,98869282
4	CD3D	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,89466203	0,98869218
3	CD3D	TRAT1	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,89841489	0,98869167
5	CD3D	CD3G	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,90595078	0,98869109
5	CD3D	SIRPG	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	0,9127209	0,98865443
4	CD3D	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,90864617	0,98863973
6	CD3D	CD3G	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	0,92056078	0,98862642
6	TRAT1	SIRPG	CD3G	ICOS	CD5	CD28	NA	NA	NA	NA	0,91698154	0,98861977
4	SIRPG	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90369456	0,98857884
7	CD3D	TRAT1	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	0,92168329	0,98857784
5	SIRPG	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	0,92074118	0,98856547
4	CD3D	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,90042847	0,98853591
6	CD3D	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91758807	0,98852753
6	CD3D	SIRPG	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92276397	0,98851335
8	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	0,92875018	0,98849613
7	CD3D	SIRPG	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,92483635	0,98849389
8	CD3D	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92876395	0,98848736

4	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,90039246	0,98848227
6	CD3D	TRAT1	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92845911	0,98847074
9	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	CD28	NA	0,93314986	0,98846726
6	CD3D	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92086031	0,98846239
7	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	0,92595356	0,98843278
7	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	0,92737963	0,98843074
6	CD3D	TRAT1	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	NA	0,91843511	0,98842648
3	TRAT1	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,87176308	0,98840825
8	CD3D	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92668027	0,98840627
4	CD3D	TRAT1	CD3G	THEMIS	NA	NA	NA	NA	NA	NA	0,89729839	0,98840577
5	CD3D	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91848066	0,98840231
4	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,9179505	0,98839528
8	CD3D	TRAT1	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,92880838	0,98837912
6	CD3D	TRAT1	SIRPG	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92554461	0,9883688
7	CD3D	SIRPG	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,92994757	0,98836267
4	TRAT1	SIRPG	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90111325	0,98836258
7	CD3D	TRAT1	SIRPG	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,93277755	0,98835141
3	ICOS	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,86833607	0,98834712
5	CD3D	TRAT1	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,91918872	0,98829374
7	CD3D	CD3G	ICOS	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,9206846	0,98828523
4	CD3D	TRAT1	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,91682768	0,98825376

8	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	0,92573444	0,98823241
4	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90286152	0,98822903
4	CD3D	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,90866802	0,98821854
4	SIRPG	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,90586295	0,98820076
9	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	0,93343737	0,98818879
8	CD3D	TRAT1	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	0,9262978	0,98818332
5	TRAT1	SIRPG	CD3G	ICOS	CD6	NA	NA	NA	NA	NA	0,91784154	0,98817771
4	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,9129697	0,98816222
7	CD3D	SIRPG	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,9340145	0,98814876
2	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,78751656	0,98812669
9	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	0,93165128	0,98812314
5	CD3D	SIRPG	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,92719963	0,98811159
7	CD3D	TRAT1	SIRPG	CD3G	CD6	CTLA4	CD28	NA	NA	NA	0,92658586	0,98811055
6	CD3D	SIRPG	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91571016	0,98809994
6	CD3D	TRAT1	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	0,92092872	0,98808489
7	CD3D	TRAT1	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,9203438	0,98808473
5	ICOS	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	0,90065964	0,98808407
6	CD3D	TRAT1	SIRPG	CD3G	CTLA4	CD28	NA	NA	NA	NA	0,91582679	0,98807629
6	CD3D	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92548767	0,98805242
8	CD3D	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	0,9266633	0,98801619
4	CD3G	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,90174871	0,98801451

4	CD3D	TRAT1	SIRPG	CTLA4	NA	NA	NA	NA	NA	NA	0,91018186	0,98800852
5	CD3D	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,91630297	0,9879173
6	CD3D	TRAT1	SIRPG	CD3G	ICOS	CTLA4	NA	NA	NA	NA	0,91308206	0,98790812
3	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,88404827	0,98787855
4	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	0,88927497	0,98785242
4	CD6	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,89455311	0,9878358
3	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,87773465	0,98782339
3	CD3D	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	0,88319364	0,98782157
7	CD3D	TRAT1	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	NA	0,91816854	0,98779356
6	CD3D	SIRPG	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92573015	0,987755
5	CD3D	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,90525422	0,98774405
5	CD3D	TRAT1	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	0,9112925	0,98772261
5	CD3D	TRAT1	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,91832713	0,98771952
9	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	0,93023059	0,9877178
5	CD3D	CD3G	ICOS	CD6	CD28	NA	NA	NA	NA	NA	0,9102596	0,98770347
6	CD3D	TRAT1	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92433404	0,98769778
4	CD3D	CD3G	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	0,90153229	0,98766604
4	CD3D	CD3G	ICOS	CD28	NA	NA	NA	NA	NA	NA	0,89563595	0,98761463
5	CD3D	TRAT1	CD3G	CD6	THEMIS	NA	NA	NA	NA	NA	0,91121231	0,98759832
4	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,90218129	0,98758956
5	CD3D	TRAT1	SIRPG	CD6	CTLA4	NA	NA	NA	NA	NA	0,92347873	0,98756214

2	SIRPG	THEMIS	NA	NA	NA	NA	NA	NA	NA	NA	0,86647858	0,98755735
7	CD3D	TRAT1	SIRPG	ICOS	CD6	CTLA4	CD5	NA	NA	NA	0,92500836	0,9875343
3	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	NA	NA	0,90106435	0,98753287
6	CD3D	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92693894	0,9875309
7	CD3D	TRAT1	SIRPG	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,93056172	0,98752491
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	0,92279687	0,98749374
5	SIRPG	CD3G	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,9193498	0,98746396
6	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92598499	0,98744672
6	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91781469	0,98743506
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	0,92360163	0,98742778
2	ICOS	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,79257089	0,98738248
3	CD3G	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	0,86312932	0,98737324
6	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92200216	0,98737051
4	CD3D	TRAT1	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,90960367	0,98736508
7	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,93291862	0,98733521
7	CD3D	TRAT1	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	NA	0,92311003	0,98733166
3	SIRPG	ICOS	CD6	NA	NA	NA	NA	NA	NA	NA	0,89489411	0,98732881
5	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,9140799	0,98732807
7	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,93098174	0,98732721
4	SIRPG	CD3G	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	0,89281629	0,98732486
6	CD3D	TRAT1	SIRPG	ICOS	CTLA4	CD5	NA	NA	NA	NA	0,91726906	0,98732332

3	CD3D	SIRPG	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,90228266	0,98730192
5	SIRPG	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,92461843	0,98727861
6	CD3D	TRAT1	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	NA	0,91662785	0,9872645
4	SIRPG	CD3G	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,89598055	0,98724649
5	CD3D	SIRPG	CD3G	ICOS	THEMIS	NA	NA	NA	NA	NA	0,9099605	0,98719299
7	CD3D	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,92417272	0,98717575
6	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92388295	0,98714616
5	CD3D	TRAT1	SIRPG	CD3G	THEMIS	NA	NA	NA	NA	NA	0,90756801	0,98712763
4	SIRPG	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,92105369	0,9871235
7	CD3D	TRAT1	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,92145156	0,98712016
3	CD3D	THEMIS	CD28	NA	NA	NA	NA	NA	NA	NA	0,88262123	0,98708798
6	CD3D	TRAT1	SIRPG	CD6	THEMIS	CD5	NA	NA	NA	NA	0,92391723	0,98708733
7	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,92609126	0,98707216
6	TRAT1	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92686231	0,9870597
4	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,91309946	0,98705618
8	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	CD28	NA	NA	0,92899186	0,98704084
6	CD3D	SIRPG	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	0,9235586	0,98698641
5	CD3D	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,91888256	0,98697314
5	CD3D	SIRPG	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	0,91806682	0,98695965
4	CD3D	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,91494978	0,98695501
6	CD3D	SIRPG	CD3G	CD6	THEMIS	CD28	NA	NA	NA	NA	0,92042071	0,98694943

5	CD3D	SIRPG	CD3G	THEMIS	CD28	NA	NA	NA	NA	NA	0,90872378	0,9869455
5	SIRPG	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,92982001	0,98693913
2	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	0,80811825	0,9869172
5	CD3D	CD3G	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	0,91028894	0,98690917
5	CD3D	TRAT1	SIRPG	THEMIS	CD5	NA	NA	NA	NA	NA	0,91719725	0,9868947
6	SIRPG	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92189715	0,986881
3	SIRPG	CD6	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,90990737	0,98687366
3	CD3D	ICOS	CD6	NA	NA	NA	NA	NA	NA	NA	0,89323929	0,98687351
3	CD3D	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,89992408	0,98687205
3	CD3D	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,89698279	0,98687072
6	CD3D	TRAT1	SIRPG	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92207289	0,98681211
5	CD3D	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	0,91366582	0,98676506
8	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	0,92715386	0,98676114
5	CD3D	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91194348	0,98674147
7	CD3D	SIRPG	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	NA	0,92316604	0,98673819
6	CD3D	SIRPG	CD3G	ICOS	CD6	CD28	NA	NA	NA	NA	0,91804005	0,98673485
7	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,93222052	0,98671942
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	0,92623451	0,98668829
4	CD3D	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,91892559	0,98668129
5	TRAT1	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,91431468	0,98667764
6	CD3D	CD3G	ICOS	THEMIS	CD5	CD28	NA	NA	NA	NA	0,9167512	0,9866762

3	CD3D	SIRPG	ICOS	NA	NA	NA	NA	NA	NA	NA	0,88900399	0,98667613
5	CD3D	SIRPG	CD3G	ICOS	CD28	NA	NA	NA	NA	NA	0,90735111	0,98665267
5	CD3D	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91549209	0,98664193
3	SIRPG	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,88930268	0,98663016
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	0,92076687	0,986624
6	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	NA	NA	NA	NA	0,91808459	0,98661259
4	CD3D	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,91223475	0,98660851
6	CD3D	SIRPG	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,92680687	0,98660109
4	CD3D	CD3G	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,89360165	0,98660033
5	CD3D	TRAT1	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91296067	0,98659126
4	ICOS	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,85948033	0,98654824
4	SIRPG	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,91634555	0,98654169
5	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,90189864	0,98653018
5	SIRPG	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	0,91318308	0,98651899
6	CD3D	TRAT1	CD3G	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91267839	0,98651562
6	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92281058	0,98649178
5	CD3D	TRAT1	CD3G	CD6	CD28	NA	NA	NA	NA	NA	0,91164874	0,98648727
2	CD3D	TRAT1	NA	NA	NA	NA	NA	NA	NA	NA	0,88838699	0,98648186
6	SIRPG	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91478165	0,98647637
6	CD3D	SIRPG	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	0,91982733	0,98646246
6	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	NA	NA	NA	NA	0,91932901	0,98644988

4	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,89514407	0,98641211
7	CD3D	TRAT1	CD3G	ICOS	CD6	CD5	CD28	NA	NA	NA	0,92223545	0,98640666
5	CD3D	TRAT1	ICOS	CD6	CD5	NA	NA	NA	NA	NA	0,91458609	0,98636587
5	SIRPG	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,90926411	0,98633839
7	CD3D	TRAT1	SIRPG	CD3G	THEMIS	CD5	CD28	NA	NA	NA	0,92035037	0,98632209
5	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,90798983	0,98631462
4	CD3D	TRAT1	CD3G	ICOS	NA	NA	NA	NA	NA	NA	0,90079989	0,98622786
3	CD3D	TRAT1	CD6	NA	NA	NA	NA	NA	NA	NA	0,90566512	0,98612309
4	CD3D	SIRPG	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,91557641	0,98610727
5	SIRPG	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91967329	0,98608689
4	CD3D	SIRPG	CD6	CD28	NA	NA	NA	NA	NA	NA	0,91299319	0,98604948
3	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,8673642	0,9860216
5	CD3D	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,91767172	0,98600211
3	CD3D	CD6	CD28	NA	NA	NA	NA	NA	NA	NA	0,89584524	0,98595199
5	CD3D	TRAT1	CD3G	ICOS	CD6	NA	NA	NA	NA	NA	0,91235004	0,98593917
4	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,9188876	0,98592791
3	THEMIS	CTLA4	CD28	NA	NA	NA	NA	NA	NA	NA	0,840143	0,98583793
6	TRAT1	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92313077	0,98580986
6	TRAT1	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	0,9227211	0,98577192
4	ICOS	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	NA	0,90006993	0,98576539
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	CD5	CD28	NA	NA	0,92627622	0,98575157

5	CD3D	SIRPG	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,91932239	0,98573269
4	CD3D	TRAT1	CD3G	CD28	NA	NA	NA	NA	NA	NA	0,89633828	0,98566983
5	CD3D	TRAT1	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91639903	0,98565433
4	SIRPG	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,89124905	0,98560773
5	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,91841011	0,98560099
6	CD3D	TRAT1	CD3G	ICOS	CD5	CD28	NA	NA	NA	NA	0,91495356	0,98553416
2	SIRPG	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	0,85511354	0,98551874
7	TRAT1	SIRPG	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,93064826	0,98551614
6	CD3D	TRAT1	SIRPG	CD3G	CD6	CD28	NA	NA	NA	NA	0,91970461	0,98543655
4	CD3D	SIRPG	ICOS	CD6	NA	NA	NA	NA	NA	NA	0,90322972	0,98543138
2	CD3G	THEMIS	NA	NA	NA	NA	NA	NA	NA	NA	0,84731245	0,9854145
5	CD3D	SIRPG	ICOS	CD5	CD28	NA	NA	NA	NA	NA	0,91256672	0,98539394
3	CD6	THEMIS	CD28	NA	NA	NA	NA	NA	NA	NA	0,87626805	0,98539291
4	CD3D	TRAT1	ICOS	CD5	NA	NA	NA	NA	NA	NA	0,90760245	0,98537011
4	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89942641	0,98530967
6	CD3D	TRAT1	SIRPG	ICOS	CD6	CD5	NA	NA	NA	NA	0,91842802	0,98525171
6	CD3D	TRAT1	SIRPG	CD6	CD5	CD28	NA	NA	NA	NA	0,9238548	0,9852327
5	TRAT1	CD3G	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,9133932	0,9851734
7	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	NA	0,92683241	0,98516278
6	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	0,92374991	0,98515811
6	SIRPG	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,92337172	0,98515533

2	CD3D	THEMIS	NA	NA	NA	NA	NA	NA	NA	NA	0,88349129	0,98508639
4	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,90899859	0,98504341
5	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,91060095	0,98504299
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD5	CD28	NA	NA	NA	0,92035261	0,98504286
3	SIRPG	CD6	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,90183961	0,98503186
4	CD3D	ICOS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90189877	0,98499509
4	TRAT1	CD3G	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,91474854	0,98496976
5	TRAT1	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	0,91079442	0,98494086
4	ICOS	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,90612186	0,98493104
7	CD3D	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,92605212	0,98490667
3	CD3D	SIRPG	CD28	NA	NA	NA	NA	NA	NA	NA	0,89658074	0,98490056
8	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	CTLA4	CD5	NA	NA	0,92964124	0,98481848
5	SIRPG	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	0,9163971	0,98479904
3	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	0,86636783	0,98478216
5	CD3D	TRAT1	SIRPG	CD3G	CD28	NA	NA	NA	NA	NA	0,90855681	0,98475915
4	SIRPG	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,91158175	0,9847304
3	CD3D	CD6	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,90418811	0,98472926
3	SIRPG	CD3G	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,88487557	0,98461691
8	CD3D	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	0,93315487	0,98460867
5	CD3G	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91205494	0,98458813
7	CD3D	SIRPG	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	0,92437928	0,98456653

6	CD3D	CD3G	ICOS	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,91963725	0,9845197
6	TRAT1	SIRPG	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	NA	0,91750752	0,98451626
6	TRAT1	SIRPG	CD3G	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91976779	0,98446959
6	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	NA	NA	NA	NA	0,91661125	0,98446569
3	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	0,89674037	0,9844551
6	TRAT1	SIRPG	CD3G	CD6	THEMIS	CD5	NA	NA	NA	NA	0,92106013	0,98444308
5	CD3D	TRAT1	SIRPG	ICOS	CD5	NA	NA	NA	NA	NA	0,91227282	0,98444046
5	CD3D	TRAT1	SIRPG	CD3G	ICOS	NA	NA	NA	NA	NA	0,90725888	0,98438406
7	CD3D	CD3G	CD6	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92762552	0,98436829
5	TRAT1	CD3G	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,90794616	0,98436812
3	TRAT1	CD3G	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,88806514	0,98434305
4	CD3D	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90648417	0,98433571
5	CD3D	SIRPG	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91615561	0,98432979
3	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,90298159	0,98430422
3	CD3G	CD6	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,88889045	0,98428172
4	SIRPG	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89979693	0,98423492
4	TRAT1	CD3G	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,89972558	0,98422053
4	CD3D	CD3G	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	0,90633476	0,98419723
3	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	NA	NA	0,89208219	0,98417976
5	TRAT1	SIRPG	CD3G	CD6	CTLA4	NA	NA	NA	NA	NA	0,9230114	0,98414301
6	CD3D	SIRPG	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	NA	0,92550361	0,98413633

5	TRAT1	SIRPG	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,92449387	0,98409688
4	TRAT1	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,9158244	0,98407087
5	CD3D	CD3G	CD6	THEMIS	CTLA4	NA	NA	NA	NA	NA	0,91889706	0,98406984
5	SIRPG	CD3G	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,91202321	0,98406877
6	SIRPG	CD3G	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	0,92104287	0,98405267
7	CD3D	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,92178736	0,98404771
7	CD3D	TRAT1	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,92793083	0,98401653
6	CD3D	SIRPG	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,93069329	0,98401107
4	SIRPG	CD3G	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,90783124	0,98394229
4	CD3D	TRAT1	SIRPG	CD6	NA	NA	NA	NA	NA	NA	0,91311542	0,98394054
8	CD3D	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	CD28	NA	NA	0,92699202	0,9839367
7	CD3D	SIRPG	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	0,92709307	0,98391846
8	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	0,93155565	0,98387307
5	CD3D	TRAT1	SIRPG	CD5	CD28	NA	NA	NA	NA	NA	0,91637808	0,98369477
5	TRAT1	SIRPG	CD3G	THEMIS	CD5	NA	NA	NA	NA	NA	0,91127465	0,98369308
4	TRAT1	SIRPG	CD3G	CTLA4	NA	NA	NA	NA	NA	NA	0,90494087	0,98363684
2	ICOS	CD6	NA	NA	NA	NA	NA	NA	NA	NA	0,87694884	0,98361925
3	SIRPG	THEMIS	CD5	NA	NA	NA	NA	NA	NA	NA	0,89940757	0,98352304
3	CD3D	TRAT1	SIRPG	NA	NA	NA	NA	NA	NA	NA	0,90044565	0,98348223
3	CD3G	CD6	CD28	NA	NA	NA	NA	NA	NA	NA	0,88049062	0,98342215
4	CD3D	TRAT1	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90597597	0,98341405

5	CD3D	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	NA	NA	0,90975301	0,98340934
4	CD3D	CD3G	ICOS	CTLA4	NA	NA	NA	NA	NA	NA	0,89646985	0,98340345
5	CD3D	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,92502853	0,98339636
6	CD3D	CD3G	THEMIS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91967972	0,98336455
7	CD3D	TRAT1	SIRPG	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	0,92609573	0,98332598
4	CD3G	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89235938	0,9833079
5	CD3D	SIRPG	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,92493736	0,98330098
6	CD3D	TRAT1	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92122502	0,98329852
3	ICOS	CD6	CD5	NA	NA	NA	NA	NA	NA	NA	0,87298791	0,98309436
5	CD3D	CD3G	CD6	CTLA4	CD28	NA	NA	NA	NA	NA	0,91428973	0,98309056
2	CD3G	ICOS	NA	NA	NA	NA	NA	NA	NA	NA	0,86306233	0,98308666
6	CD3D	SIRPG	CD3G	CD6	CTLA4	CD28	NA	NA	NA	NA	0,92330184	0,98306227
7	CD3D	SIRPG	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	NA	0,92071856	0,98303991
6	CD3D	CD3G	ICOS	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91378023	0,98285384
3	ICOS	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,86259817	0,98284931
5	CD3D	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,90961735	0,98281024
6	CD3D	SIRPG	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	0,91655908	0,98280161
6	CD3D	SIRPG	CD3G	ICOS	CD6	CTLA4	NA	NA	NA	NA	0,91628149	0,98275586
2	CD3D	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,86681292	0,98271456
2	CD6	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	0,8674238	0,98267119
5	CD3D	SIRPG	CD3G	ICOS	CTLA4	NA	NA	NA	NA	NA	0,90612894	0,98260142

3	ICOS	THEMIS	CD28	NA	NA	NA	NA	NA	NA	NA	0,84398968	0,98259836
4	SIRPG	CD3G	CD6	CD28	NA	NA	NA	NA	NA	NA	0,90718887	0,98256455
3	CD3G	ICOS	CD6	NA	NA	NA	NA	NA	NA	NA	0,89244442	0,98254779
5	SIRPG	CD3G	ICOS	CD5	CD28	NA	NA	NA	NA	NA	0,91174843	0,98247349
7	CD3D	TRAT1	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	NA	0,92323837	0,98240996
5	TRAT1	CD3G	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91287119	0,98235801
4	CD3G	ICOS	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89841247	0,98235753
4	TRAT1	SIRPG	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,9105026	0,98232683
5	TRAT1	CD3G	ICOS	CD6	CD5	NA	NA	NA	NA	NA	0,91663161	0,98225199
8	CD3D	TRAT1	SIRPG	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	0,93100208	0,98224932
6	CD3D	SIRPG	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92624712	0,98222058
7	CD3D	TRAT1	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,9262948	0,98221818
4	SIRPG	ICOS	CD6	CD5	NA	NA	NA	NA	NA	NA	0,89229354	0,98214027
8	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	0,92631722	0,98212852
6	CD3D	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	NA	NA	0,91731564	0,98210571
5	CD3D	SIRPG	CD3G	CTLA4	CD28	NA	NA	NA	NA	NA	0,91239996	0,98206288
4	CD3D	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,9172572	0,98205565
6	TRAT1	SIRPG	CD3G	CD6	CD5	CD28	NA	NA	NA	NA	0,92250385	0,98203073
7	CD3D	SIRPG	CD3G	ICOS	CD6	THEMIS	CD5	NA	NA	NA	0,92167734	0,98194246
6	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92969334	0,98187405
3	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,8633604	0,98175744

4	SIRPG	CD6	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90315173	0,98174942
2	THEMIS	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	0,84429563	0,98174584
7	CD3D	SIRPG	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	NA	0,92452281	0,98169497
5	CD3D	SIRPG	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	0,90888438	0,98164362
4	CD3D	CD3G	CTLA4	CD28	NA	NA	NA	NA	NA	NA	0,8989301	0,98158861
5	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,92232215	0,98155754
6	TRAT1	SIRPG	CD3G	ICOS	CD6	CD5	NA	NA	NA	NA	0,92002	0,98141344
5	CD3D	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91720317	0,98140382
6	CD3D	CD3G	CD6	THEMIS	CD5	CD28	NA	NA	NA	NA	0,91710262	0,98133237
6	CD3D	TRAT1	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	NA	0,91672498	0,98122756
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	0,92081844	0,98116758
6	CD3D	SIRPG	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	NA	0,91735722	0,98113029
3	TRAT1	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	0,89452415	0,98109757
2	THEMIS	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,8680035	0,98107824
5	CD3D	CD3G	ICOS	THEMIS	CD5	NA	NA	NA	NA	NA	0,91223132	0,9810543
4	CD3D	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,89952339	0,98105386
6	CD3D	TRAT1	CD3G	CD6	THEMIS	CD5	NA	NA	NA	NA	0,91667556	0,98099102
7	CD3D	TRAT1	SIRPG	CD3G	CTLA4	CD5	CD28	NA	NA	NA	0,92494529	0,98093819
7	CD3D	TRAT1	SIRPG	CD3G	CD6	THEMIS	CD5	NA	NA	NA	0,92173267	0,98079313
5	SIRPG	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,9214964	0,98074673
2	THEMIS	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,78573271	0,980736

4	SIRPG	CD3G	ICOS	CD6	NA	NA	NA	NA	NA	NA	0,90306406	0,9805973
3	CD6	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,86815478	0,98054875
6	CD3D	TRAT1	CD3G	CTLA4	CD5	CD28	NA	NA	NA	NA	0,91859187	0,98052135
5	CD3D	SIRPG	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,91653475	0,98040891
4	CD3D	SIRPG	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,91423901	0,98034416
3	ICOS	CD6	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,91018252	0,98032748
5	CD3D	TRAT1	CD3G	CD6	CTLA4	NA	NA	NA	NA	NA	0,91839195	0,98028319
6	CD3D	SIRPG	CD3G	THEMIS	CD5	CD28	NA	NA	NA	NA	0,918856	0,98028117
1	CD28	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,64119745	0,9802757
6	CD3D	TRAT1	SIRPG	CD6	CTLA4	CD5	NA	NA	NA	NA	0,92662014	0,98026879
3	SIRPG	CD3G	CD28	NA	NA	NA	NA	NA	NA	NA	0,87975777	0,98019991
5	CD3D	SIRPG	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91850137	0,98015163
7	CD3D	SIRPG	CD3G	ICOS	CD6	CD5	CD28	NA	NA	NA	0,92048091	0,98012877
6	CD3D	TRAT1	SIRPG	CD3G	CD6	CTLA4	NA	NA	NA	NA	0,92354979	0,98009925
6	CD3D	CD3G	ICOS	CD6	CD5	CD28	NA	NA	NA	NA	0,91447101	0,98008686
4	TRAT1	CD3G	ICOS	CD5	NA	NA	NA	NA	NA	NA	0,90812811	0,98002523
5	CD3D	TRAT1	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,92197935	0,97991586
4	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,910482	0,97985721
4	CD3D	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,90751647	0,97977668
5	TRAT1	SIRPG	CD3G	CD5	CD28	NA	NA	NA	NA	NA	0,91198843	0,97977425
3	SIRPG	CD3G	ICOS	NA	NA	NA	NA	NA	NA	NA	0,88326079	0,97972348

5	TRAT1	SIRPG	CD3G	ICOS	CD5	NA	NA	NA	NA	NA	0,91251808	0,97964377
5	CD3D	SIRPG	CD3G	CD6	THEMIS	NA	NA	NA	NA	NA	0,91166072	0,97958986
6	CD3D	TRAT1	SIRPG	CD3G	THEMIS	CD5	NA	NA	NA	NA	0,91644627	0,97956481
3	CD3D	CD6	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,90251505	0,97955445
6	SIRPG	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,9256934	0,97952272
6	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	0,91765713	0,97952227
5	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,91004777	0,97949835
4	CD3D	CD3G	CD6	THEMIS	NA	NA	NA	NA	NA	NA	0,90164949	0,97949084
5	CD3D	TRAT1	CD3G	THEMIS	CD5	NA	NA	NA	NA	NA	0,91010163	0,97944642
2	CD3G	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,82366156	0,97939624
5	CD3D	CD3G	THEMIS	CD5	CD28	NA	NA	NA	NA	NA	0,90926611	0,97935139
2	CD6	THEMIS	NA	NA	NA	NA	NA	NA	NA	NA	0,88057346	0,97931256
4	TRAT1	CD3G	CD5	CD28	NA	NA	NA	NA	NA	NA	0,8971309	0,97925709
3	SIRPG	ICOS	CD5	NA	NA	NA	NA	NA	NA	NA	0,8774974	0,97923339
3	CD3D	SIRPG	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,90030442	0,9791635
3	TRAT1	CD6	CD5	NA	NA	NA	NA	NA	NA	NA	0,89535412	0,97886531
4	CD3D	SIRPG	CD3G	THEMIS	NA	NA	NA	NA	NA	NA	0,90165171	0,97884721
5	CD3D	TRAT1	SIRPG	CD3G	CTLA4	NA	NA	NA	NA	NA	0,91437554	0,97884501
5	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91421028	0,97881219
4	TRAT1	SIRPG	CD6	CD5	NA	NA	NA	NA	NA	NA	0,90785396	0,97870678
4	CD3D	TRAT1	CD3G	CTLA4	NA	NA	NA	NA	NA	NA	0,90654437	0,97866801

3	CD3D	CD3G	THEMIS	NA	NA	NA	NA	NA	NA	NA	0,88740937	0,9785716
4	CD3D	SIRPG	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,91236082	0,97853811
7	CD3D	SIRPG	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	0,92853919	0,97843967
1	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,75681903	0,97830641
5	CD3D	TRAT1	SIRPG	CTLA4	CD5	NA	NA	NA	NA	NA	0,92050868	0,97818705
6	CD3D	SIRPG	CD3G	ICOS	CD5	CD28	NA	NA	NA	NA	0,91548771	0,9781817
4	CD3D	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90577063	0,97814869
7	CD3D	TRAT1	SIRPG	CD3G	CD6	CD5	CD28	NA	NA	NA	0,92304723	0,97800406
3	TRAT1	CD3G	CD6	NA	NA	NA	NA	NA	NA	NA	0,89950978	0,97798174
2	ICOS	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,85122584	0,97794878
6	CD3D	TRAT1	CD3G	ICOS	CD6	CD5	NA	NA	NA	NA	0,91515526	0,97782743
6	CD3D	CD3G	CD6	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,92370532	0,9778208
7	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD6	CD5	NA	NA	NA	0,91858137	0,97769068
6	CD3D	TRAT1	CD3G	CD6	CD5	CD28	NA	NA	NA	NA	0,9170705	0,97768732
5	SIRPG	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	0,90813742	0,97756704
5	CD3D	CD3G	ICOS	CD5	CD28	NA	NA	NA	NA	NA	0,90809651	0,97749405
5	CD3D	SIRPG	ICOS	CD6	CD5	NA	NA	NA	NA	NA	0,90303719	0,97720862
4	TRAT1	SIRPG	CD3G	CD6	NA	NA	NA	NA	NA	NA	0,90977627	0,97709096
4	CD3D	ICOS	CD6	CD5	NA	NA	NA	NA	NA	NA	0,89374118	0,97706635
2	CD3D	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	0,88090848	0,97705724
3	SIRPG	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,88339036	0,97691126

4	CD3D	TRAT1	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,91425693	0,97690079
6	CD3D	SIRPG	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	NA	0,9241663	0,97689721
5	SIRPG	CD3G	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91506719	0,97687138
4	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,89700036	0,97680085
5	CD3D	SIRPG	CD3G	CD6	CD28	NA	NA	NA	NA	NA	0,91206798	0,97668323
3	CD3D	THEMIS	CD5	NA	NA	NA	NA	NA	NA	NA	0,90195313	0,97666871
5	SIRPG	CD3G	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,910972	0,97657961
1	ICOS	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,77842579	0,97656786
5	CD3D	SIRPG	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,91397249	0,97649855
6	TRAT1	SIRPG	CD3G	CD6	CTLA4	CD5	NA	NA	NA	NA	0,92709427	0,97620776
4	CD3D	CD3G	ICOS	CD6	NA	NA	NA	NA	NA	NA	0,89684342	0,97617726
4	CD3D	CD3G	CD6	CD28	NA	NA	NA	NA	NA	NA	0,8995606	0,97598877
4	CD3G	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,89741299	0,97591675
7	CD3D	SIRPG	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	NA	0,91903077	0,97583954
5	CD3D	SIRPG	CD3G	ICOS	CD6	NA	NA	NA	NA	NA	0,90490536	0,97580667
5	CD3D	CD3G	THEMIS	CTLA4	CD5	NA	NA	NA	NA	NA	0,91813897	0,9757138
7	CD3D	SIRPG	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	NA	0,92670887	0,97568243
6	CD3D	TRAT1	SIRPG	CD3G	ICOS	CD5	NA	NA	NA	NA	0,91409528	0,97556058
5	TRAT1	CD3G	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,9217647	0,97546789
6	CD3D	TRAT1	SIRPG	CD3G	CD5	CD28	NA	NA	NA	NA	0,91762933	0,97546761
6	CD3D	CD3G	ICOS	CD6	CTLA4	CD5	NA	NA	NA	NA	0,91398175	0,97527146

5	CD3D	TRAT1	CD3G	ICOS	CD5	NA	NA	NA	NA	NA	0,91024164	0,97514725
4	CD3G	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89745258	0,974929
4	SIRPG	CD3G	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,91160704	0,97479281
4	SIRPG	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,90605281	0,97476192
4	CD3D	CD6	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90084186	0,97474268
2	ICOS	THEMIS	NA	NA	NA	NA	NA	NA	NA	NA	0,85398393	0,97457428
6	CD3D	CD3G	CD6	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92004659	0,97454845
5	CD3D	TRAT1	CD3G	CD5	CD28	NA	NA	NA	NA	NA	0,91002577	0,97433709
4	CD3D	SIRPG	ICOS	CD5	NA	NA	NA	NA	NA	NA	0,897642	0,97378551
3	CD3G	CD6	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,89543335	0,97374496
3	TRAT1	SIRPG	CD5	NA	NA	NA	NA	NA	NA	NA	0,89651721	0,97373076
5	CD3D	TRAT1	SIRPG	CD6	CD5	NA	NA	NA	NA	NA	0,91308088	0,97360671
4	SIRPG	CD3G	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,90294602	0,97358932
3	TRAT1	SIRPG	CD3G	NA	NA	NA	NA	NA	NA	NA	0,8900353	0,97357123
4	CD3D	SIRPG	CD3G	ICOS	NA	NA	NA	NA	NA	NA	0,89541186	0,97351618
6	CD3D	SIRPG	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	NA	0,9139157	0,97351236
3	CD3D	CD3G	ICOS	NA	NA	NA	NA	NA	NA	NA	0,88466977	0,97351098
4	CD3D	SIRPG	CD3G	CD28	NA	NA	NA	NA	NA	NA	0,90115481	0,97327939
5	TRAT1	SIRPG	CD3G	CTLA4	CD5	NA	NA	NA	NA	NA	0,91906219	0,97313201
2	TRAT1	CD3G	NA	NA	NA	NA	NA	NA	NA	NA	0,86880124	0,97309253
2	SIRPG	CD6	NA	NA	NA	NA	NA	NA	NA	NA	0,86311727	0,97285672

6	CD3D	SIRPG	CD3G	CTLA4	CD5	CD28	NA	NA	NA	NA	0,92146024	0,97281449
7	CD3D	TRAT1	SIRPG	CD3G	CD6	CTLA4	CD5	NA	NA	NA	0,92611962	0,9727069
4	CD3D	TRAT1	CD6	CD5	NA	NA	NA	NA	NA	NA	0,90631251	0,97250376
6	CD3D	SIRPG	CD3G	CD6	THEMIS	CD5	NA	NA	NA	NA	0,91376148	0,97228383
5	CD3D	CD3G	ICOS	CTLA4	CD5	NA	NA	NA	NA	NA	0,90773874	0,97218587
5	CD3D	TRAT1	SIRPG	CD3G	CD6	NA	NA	NA	NA	NA	0,91107295	0,97210253
3	CD3D	ICOS	CD5	NA	NA	NA	NA	NA	NA	NA	0,88774442	0,97189242
3	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	0,88385447	0,97188808
5	SIRPG	CD3G	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,90978939	0,97176546
4	CD3D	SIRPG	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90847876	0,97171459
6	CD3D	TRAT1	CD3G	CD6	CTLA4	CD5	NA	NA	NA	NA	0,92229188	0,97152512
3	CD3G	THEMIS	CD5	NA	NA	NA	NA	NA	NA	NA	0,88459886	0,97144336
4	CD3D	TRAT1	CD3G	CD6	NA	NA	NA	NA	NA	NA	0,90394695	0,97133123
5	SIRPG	CD3G	ICOS	CD6	CD5	NA	NA	NA	NA	NA	0,90195121	0,97129987
3	SIRPG	CD3G	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,89058071	0,97118816
4	TRAT1	CD3G	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,9110829	0,97114922
5	CD3D	CD3G	CD6	THEMIS	CD5	NA	NA	NA	NA	NA	0,90579188	0,97087153
2	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	NA	0,81623734	0,97086813
3	CD3D	CD3G	CD28	NA	NA	NA	NA	NA	NA	NA	0,88285975	0,97072574
5	CD3D	CD3G	CTLA4	CD5	CD28	NA	NA	NA	NA	NA	0,91289771	0,97060534
2	TRAT1	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,88054338	0,97027374

1	THEMIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,77177102	0,97021521
4	CD3G	ICOS	CD6	CD5	NA	NA	NA	NA	NA	NA	0,89127754	0,97017565
5	CD3D	SIRPG	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,91540292	0,97011629
5	CD3D	SIRPG	CD3G	CD6	CTLA4	NA	NA	NA	NA	NA	0,91490551	0,96970042
4	CD3G	CD6	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89108042	0,96954854
6	CD3D	TRAT1	SIRPG	CD3G	CTLA4	CD5	NA	NA	NA	NA	0,92172913	0,96949588
5	CD3D	SIRPG	CD3G	THEMIS	CD5	NA	NA	NA	NA	NA	0,90982508	0,96884322
1	CD6	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,77633836	0,96881319
3	SIRPG	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	0,89000013	0,96869303
4	CD3D	TRAT1	SIRPG	CD5	NA	NA	NA	NA	NA	NA	0,90884803	0,96857532
4	CD3D	TRAT1	SIRPG	CD3G	NA	NA	NA	NA	NA	NA	0,90187901	0,96788565
2	CD3G	CTLA4	NA	NA	NA	NA	NA	NA	NA	NA	0,85868078	0,9677618
4	CD3D	CD3G	CD6	CTLA4	NA	NA	NA	NA	NA	NA	0,90625371	0,96743877
6	CD3D	SIRPG	CD3G	CD6	CD5	CD28	NA	NA	NA	NA	0,91373703	0,96736699
5	CD3D	TRAT1	CD3G	CTLA4	CD5	NA	NA	NA	NA	NA	0,91705403	0,96721815
6	CD3D	SIRPG	CD3G	ICOS	CD6	CD5	NA	NA	NA	NA	0,90555349	0,9671437
4	CD3D	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,90612359	0,96698445
3	CD3D	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,89172456	0,96682286
3	CD3D	SIRPG	CD6	NA	NA	NA	NA	NA	NA	NA	0,89078802	0,96667315
5	TRAT1	SIRPG	CD3G	CD6	CD5	NA	NA	NA	NA	NA	0,91029422	0,9666539
4	CD3D	CD3G	THEMIS	CD5	NA	NA	NA	NA	NA	NA	0,9006474	0,96599853

4	SIRPG	CD3G	ICOS	CD5	NA	NA	NA	NA	NA	NA	0,89511531	0,96578602
4	SIRPG	CD3G	CD5	CD28	NA	NA	NA	NA	NA	NA	0,90040983	0,96552241
3	CD3D	TRAT1	CD3G	NA	NA	NA	NA	NA	NA	NA	0,89203842	0,965266
4	CD3D	SIRPG	CD3G	CTLA4	NA	NA	NA	NA	NA	NA	0,90576546	0,96517209
5	CD3D	CD3G	ICOS	CD6	CD5	NA	NA	NA	NA	NA	0,8983304	0,96508338
3	CD3D	TRAT1	CD5	NA	NA	NA	NA	NA	NA	NA	0,90203564	0,96475898
5	CD3D	CD3G	CD6	CD5	CD28	NA	NA	NA	NA	NA	0,90381097	0,96453683
4	CD3D	SIRPG	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,91035655	0,96427436
4	TRAT1	CD3G	CD6	CD5	NA	NA	NA	NA	NA	NA	0,90143206	0,96396996
5	SIRPG	CD3G	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,91353824	0,96392118
6	CD3D	TRAT1	SIRPG	CD3G	CD6	CD5	NA	NA	NA	NA	0,91218919	0,96299959
2	CD3D	CD6	NA	NA	NA	NA	NA	NA	NA	NA	0,87002645	0,96194232
3	CD3G	ICOS	CD5	NA	NA	NA	NA	NA	NA	NA	0,8839151	0,96178009
5	CD3D	SIRPG	CD3G	ICOS	CD5	NA	NA	NA	NA	NA	0,90168085	0,96169036
5	CD3D	SIRPG	CD3G	CD5	CD28	NA	NA	NA	NA	NA	0,90957836	0,96139172
1	SIRPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,79473659	0,96053136
6	CD3D	SIRPG	CD3G	CD6	CTLA4	CD5	NA	NA	NA	NA	0,91624151	0,96040553
3	CD3D	CD3G	CTLA4	NA	NA	NA	NA	NA	NA	NA	0,89356702	0,96034869
5	CD3D	TRAT1	CD3G	CD6	CD5	NA	NA	NA	NA	NA	0,90609266	0,9598123
2	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,8518487	0,95980621
4	CD3G	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,90151529	0,95962441

3	CD3G	CD5	CD28	NA	NA	NA	NA	NA	NA	NA	0,87321835	0,95961487
4	TRAT1	SIRPG	CD3G	CD5	NA	NA	NA	NA	NA	NA	0,90362873	0,95926986
3	CD3D	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	0,89915312	0,95725403
4	CD3D	CD3G	ICOS	CD5	NA	NA	NA	NA	NA	NA	0,89413823	0,95722047
3	SIRPG	CD6	CD5	NA	NA	NA	NA	NA	NA	NA	0,85452039	0,95687047
5	CD3D	TRAT1	SIRPG	CD3G	CD5	NA	NA	NA	NA	NA	0,90858693	0,95621045
5	CD3D	CD3G	CD6	CTLA4	CD5	NA	NA	NA	NA	NA	0,90917968	0,95598993
4	SIRPG	CD3G	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,90606871	0,95597794
4	CD3D	CD3G	CD5	CD28	NA	NA	NA	NA	NA	NA	0,89774283	0,95573484
2	CD3D	SIRPG	NA	NA	NA	NA	NA	NA	NA	NA	0,87813176	0,95542214
5	CD3D	SIRPG	CD3G	CTLA4	CD5	NA	NA	NA	NA	NA	0,91271286	0,95313334
4	CD3D	SIRPG	CD6	CD5	NA	NA	NA	NA	NA	NA	0,88777896	0,95284611
3	TRAT1	CD3G	CD5	NA	NA	NA	NA	NA	NA	NA	0,89361881	0,95246425
3	SIRPG	CD3G	CD6	NA	NA	NA	NA	NA	NA	NA	0,87758756	0,95232602
4	CD3D	TRAT1	CD3G	CD5	NA	NA	NA	NA	NA	NA	0,90216191	0,94994047
4	CD3D	SIRPG	CD3G	CD6	NA	NA	NA	NA	NA	NA	0,89178684	0,94927
3	CD3G	CTLA4	CD5	NA	NA	NA	NA	NA	NA	NA	0,89004894	0,94665088
4	CD3D	CD3G	CTLA4	CD5	NA	NA	NA	NA	NA	NA	0,90474098	0,94507822
2	CD6	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,78701543	0,94390912
3	CD3D	CD6	CD5	NA	NA	NA	NA	NA	NA	NA	0,86840222	0,94193218
4	SIRPG	CD3G	CD6	CD5	NA	NA	NA	NA	NA	NA	0,87587234	0,94060276

5	CD3D	SIRPG	CD3G	CD6	CD5	NA	NA	NA	NA	NA	0,89178429	0,93976728
2	CD3G	CD6	NA	NA	NA	NA	NA	NA	NA	NA	0,84058253	0,93870212
3	CD3D	CD3G	CD6	NA	NA	NA	NA	NA	NA	NA	0,87584062	0,9376678
3	CD3D	SIRPG	CD5	NA	NA	NA	NA	NA	NA	NA	0,8843147	0,93518305
2	SIRPG	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,83355431	0,93225953
3	CD3D	SIRPG	CD3G	NA	NA	NA	NA	NA	NA	NA	0,88195224	0,93195229
1	CD3D	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,85065552	0,93094794
2	SIRPG	CD3G	NA	NA	NA	NA	NA	NA	NA	NA	0,85086565	0,92872246
4	CD3D	CD3G	CD6	CD5	NA	NA	NA	NA	NA	NA	0,87778458	0,92692224
3	CD3G	CD6	CD5	NA	NA	NA	NA	NA	NA	NA	0,84517943	0,92431843
4	CD3D	SIRPG	CD3G	CD5	NA	NA	NA	NA	NA	NA	0,88838991	0,92184044
3	SIRPG	CD3G	CD5	NA	NA	NA	NA	NA	NA	NA	0,86705711	0,91671721
2	CD3D	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,86398414	0,90429349
2	CD3D	CD3G	NA	NA	NA	NA	NA	NA	NA	NA	0,86133762	0,90027373
3	CD3D	CD3G	CD5	NA	NA	NA	NA	NA	NA	NA	0,87329721	0,89520034
2	CD3G	CD5	NA	NA	NA	NA	NA	NA	NA	NA	0,82813417	0,87347023
1	CD5	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,71218117	0,86619448
1	CD3G	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,780051	0,86156268

REFERENCES:

Throughout this application, various references describe the state of the art to which this invention pertains. The disclosures of these references are hereby incorporated by reference into the present disclosure.

CLAIMS:

1. A method for quantifying the population of cells of monocytic origin in a tissue sample obtained from a subject comprising determining the expression level of at least one gene selected from the group consisting of CSF1R, ADAP2, RASSF4, FPR3, TFEC, PLA2G7 and KYNU wherein the determined expression level indicates the quantity of the population of cells of monocytic origin in the tissue sample.

2. The method of claim 1 wherein the subject suffers from a cancer.

3. The method of claim 2 wherein the subject suffers from a solid cancer selected from the group consisting of bile duct cancer (e.g. periphilar cancer, distal bile duct cancer, intrahepatic bile duct cancer), bladder cancer, bone cancer (e.g. osteoblastoma, osteochrondroma, hemangioma, chondromyxoid fibroma, osteosarcoma, chondrosarcoma, fibrosarcoma, malignant fibrous histiocytoma, giant cell tumor of the bone, chordoma, lymphoma, multiple myeloma), brain and central nervous system cancer (e.g. meningioma, astocytoma, oligodendrogliomas, ependymoma, gliomas, medulloblastoma, ganglioglioma, Schwannoma, germinoma, craniopharyngioma), breast cancer (e.g. ductal carcinoma in situ, infiltrating ductal carcinoma, infiltrating, lobular carcinoma, lobular carcinoma in, situ, gynecomastia), Castleman disease (e.g. giant lymph node hyperplasia, angiofollicular lymph node hyperplasia), cervical cancer, colorectal cancer, endometrial cancer (e.g. endometrial adenocarcinoma, adenocanthoma, papillary serous adnocarcinroma, clear cell), esophagus cancer, gallbladder cancer (mucinous adenocarcinoma, small cell carcinoma), gastrointestinal carcinoid tumors (e.g. choriocarcinoma, chorioadenoma destruens), Hodgkin's disease, non-Hodgkin's lymphoma, Kaposi's sarcoma, kidney cancer (e.g. renal cell cancer), laryngeal and hypopharyngeal cancer, liver cancer (e.g. hemangioma, hepatic adenoma, focal nodular hyperplasia, hepatocellular carcinoma), lung cancer (e.g. small cell lung cancer, non-small cell lung cancer), mesothelioma, plasmacytoma, nasal cavity and paranasal sinus cancer (e.g. esthesioneuroblastoma, midline granuloma), nasopharyngeal cancer, neuroblastoma, oral cavity and oropharyngeal cancer, ovarian cancer, pancreatic cancer, penile cancer, pituitary cancer, prostate cancer, retinoblastoma, rhabdomyosarcoma (e.g. embryonal rhabdomyosarcoma, alveolar rhabdomyosarcoma, pleomorphic rhabdomyosarcoma), salivary gland cancer, skin cancer (e.g. melanoma, nonmelanoma skin cancer), stomach cancer, testicular cancer

(e.g. seminoma, nonseminoma germ cell cancer), thymus cancer, thyroid cancer (e.g. follicular carcinoma, anaplastic carcinoma, poorly differentiated carcinoma, medullary thyroid carcinoma, thyroid lymphoma), vaginal cancer, vulvar cancer, and uterine cancer (e.g. uterine leiomyosarcoma).

4. The method of claim 1 wherein the expression level of 2, 3, 4, 5, 6 or 7 genes is determined at step i).

5. The method of claim 4 wherein the combination of genes is selected from the Table 1.

6. The method of claim 1 which further comprises quantifying at least one further population of cells in the tissue sample.

7. The method of claim 6 wherein the at least one population of cells is selected from the group consisting of B cells, T cells, NK cells, cytotoxic lymphocytes, neutrophils, myeloid dendritic cells, fibroblasts and endothelial cells (includes lymphatics and blood vessels).

8. The method of claim 1 which further comprises determining the expression level of at least one gene representative of B cells selected from the group consisting of MS4A1, CD19, CD79A, FCRL2, CR2, PAX5, CD22, BANK1 and IGKC.

9. The method of claim 1 which further comprises determining the expression level of at least one gene representative of T cells selected from the group consisting of TRAT1, CD3D, THEMIS, ICOS, SIRPG, CD3G, CTLA4, CD6, CD5 and CD28.

10. The method of claim 1 which further comprises determining the expression level of at least one gene representative of NK cells selected from the group consisting of KIR2DL1, KIR2DL3, NCR1, KIR3DL1, KIR3DS1, KIR3DL2, SH2D1B, CD160, GENE 2 and KIR2DL4.

11. The method of claim 1 which further comprises determining the expression level of at least one gene representative of cytotoxic lymphocytes selected from the group consisting of KLRC4-KLRK1 /// KLRK1, CD8A, KLRD1, GNLY, EOMES, KLRC3, KLRC4, FGFBP2 and KLRC1 /// KLRC2.

12. The method of claim 1 which further comprises determining the expression level of at least one gene representative of neutrophils selected from the group consisting of CXCR2, VNN3 CYP4F3, HAL, GENE 1, FCGR3B, KCNJ15, CXCR1, STEAP4 and TNFRSF10C.

13. The method of claim 1 which further comprises determining the expression level of at least one gene representative of myeloid dendritic cells selected from the group consisting of CD1E, CLEC10A, CLIC2, CD1A, WFDC21P and CD1B.

14. The method of claim 1 which further comprises determining the expression level of at least one gene representative of fibroblasts selected from the group consisting of DCN, COL6A2, COL6A1, COL3A1, COL1A1, PAMR1, TAGLN and GREM1.

15. The method of claim 1 which further comprises determining the expression level of at least one gene representative of endothelial cells selected from the group consisting of CDH5, EMCN, MYCT1, ELTD1, ROBO4, CLEC14A, VWF, ESAM, MMRN2 and KDR.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2016/073055

A. CLASSIFICATION OF SUBJECT MATTER
INV. C12Q1/68
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, BIOSIS, Sequence Search, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/106925 A2 (KOUYAMA YOSHIHISA [JP]) 9 December 2004 (2004-12-09) the whole document -----	1-15
A	US 2003/148295 A1 (WAN JACKSON SHEK-LAM [US] ET AL) 7 August 2003 (2003-08-07) the whole document -----	1-15
X	WO 03/106706 A2 (MILLENIUM BIOLOG AG [CH]; BRUNNER ANDREAS [CH]; HAGG RUPERT [CH]; TOMM) 24 December 2003 (2003-12-24) the whole document ----- -/--	1-15

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search 15 November 2016	Date of mailing of the international search report 25/11/2016
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Mueller, Frank

3

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	L. OESPER ET AL: "Quantifying tumor heterogeneity in whole-genome and whole-exome sequencing data", BIOINFORMATICS., vol. 30, no. 24, 8 October 2014 (2014-10-08), pages 3532-3540, XP055249401, GB ISSN: 1367-4803, DOI: 10.1093/bioinformatics/btu651 the whole document -----	1-15
X	NEIL A MABBOTT ET AL: "An expression atlas of human primary cells: inference of gene function from coexpression networks", BMC GENOMICS, BIOMED CENTRAL LTD, LONDON, UK, vol. 14, no. 1, 20 September 2013 (2013-09-20), page 632, XP021163126, ISSN: 1471-2164, DOI: 10.1186/1471-2164-14-632 the whole document -----	1-15
X	DU X ET AL: "Genomic profiles for human peripheral blood T cells, B cells, natural killer cells, monocytes, and polymorphonuclear cells: Comparisons to ischemic stroke, migraine, and Tourette syndrome", GENOMICS, ACADEMIC PRESS, SAN DIEGO, US, vol. 87, no. 6, 1 June 2006 (2006-06-01), pages 693-703, XP024929515, ISSN: 0888-7543, DOI: 10.1016/J.YGENO.2006.02.003 [retrieved on 2006-06-01] the whole document -----	1-15

3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2016/073055

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004106925 A2	09-12-2004	AU 2004243690 A1	09-12-2004
		CA 2518677 A1	09-12-2004
		CN 101044404 A	26-09-2007
		EP 1599730 A2	30-11-2005
		JP 2007501407 A	25-01-2007
		US 2005032126 A1	10-02-2005
		WO 2004106925 A2	09-12-2004
US 2003148295 A1	07-08-2003	AU 2002306768 A1	03-10-2002
		EP 1370696 A2	17-12-2003
		JP 2004519247 A	02-07-2004
		US 2003148295 A1	07-08-2003
		WO 02074979 A2	26-09-2002
WO 03106706 A2	24-12-2003	AU 2003233743 A1	31-12-2003
		CA 2492504 A1	24-12-2003
		EP 1521844 A2	13-04-2005
		US 2006008803 A1	12-01-2006
		WO 03106706 A2	24-12-2003