

(19) 日本国特許庁(JP)

(12) 特 許 公 報(B2)

(11) 特許番号

特許第4416493号
(P4416493)

(45) 発行日 平成22年2月17日(2010.2.17)

(24) 登録日 平成21年12月4日(2009.12.4)

(51) Int. Cl. F I
 C 1 2 N 15/09 (2006.01) C 1 2 N 15/00 Z N A F
 C 1 2 Q 1/68 (2006.01) C 1 2 Q 1/68 A

請求項の数 5 (全 152 頁)

(21) 出願番号	特願2003-430554 (P2003-430554)	(73) 特許権者	000001007 キヤノン株式会社 東京都大田区下丸子3丁目30番2号
(22) 出願日	平成15年12月25日(2003.12.25)	(74) 代理人	100123788 弁理士 官崎 昭夫
(65) 公開番号	特開2005-185172 (P2005-185172A)	(74) 代理人	100088328 弁理士 金田 暢之
(43) 公開日	平成17年7月14日(2005.7.14)	(74) 代理人	100106297 弁理士 伊藤 克博
審査請求日	平成18年12月25日(2006.12.25)	(74) 代理人	100106138 弁理士 石橋 政幸
		(72) 発明者	塚田 護 東京都大田区下丸子3丁目30番2号 キヤノン株式会社内

最終頁に続く

(54) 【発明の名称】 H L A - B アレルを同定するためのプローブセット及び特定方法

(57) 【特許請求の範囲】

【請求項1】

明細書中の配列番号 1 ~ 2 7 0 で表されるそれぞれの塩基配列またはその一部を有する プローブを全部含むプローブ群または配列番号 2 7 1 ~ 5 1 7 で表されるそれぞれの塩基配列またはその一部を有するプローブを全部含むプローブ群からなり、

前記2つのプローブ群の各プローブは、大文字で表記された塩基が欠落することがない範囲で明細書中の配列番号 5 1 8 ~ 1 0 1 1 で表される塩基配列からなる H L A - B 型のアリルリスト中から選択された 1 5 ~ 3 0 塩基の連続した塩基からなり、検体中に含まれる H L A - B 型のアリルの同定に利用し得るプローブセット。

【請求項2】

明細書中の配列番号 1 ~ 2 7 0 で表される塩基配列を有する プローブを全部含むプローブ群または配列番号 2 7 1 ~ 5 1 7 で表される塩基配列を有するプローブを全部含むプローブ群であって、前記プローブ群が H L A - B 遺伝子に由来する 3 0 塩基以下の塩基からなる、検体中に含まれる H L A - B 型のアリルの同定に利用し得るプローブセット。

【請求項3】

検体からの試料中に含まれる H L A - B 型のアリルを プローブセットを用いて同定する方法であって、

該プローブセットが請求項1または2に記載のプローブセットであって、明細書中の表3又は表4に記載されるアレル-プローブ対応リストに基づいて、検体中のアレルを同定することを特徴とする、H L A - B 型のアリルを同定する方法。

【請求項 4】

前記検体中の H L A - B 領域をプライマー P C R 法により増幅する工程と、
前記増幅後の検体を、前記プローブセットが固定されたプローブアレイとハイブリダイゼーション反応させる工程と、

各アレルに対応するプローブの組み合わせを示す、明細書中の表 3 又は表 4 に記載されるアレル - プローブ対応リストに基づいて、検体中のアレルを同定する工程と、
を有する請求項 3 に記載の方法。

【請求項 5】

請求項 1 または 2 に記載のプローブセットが基板表面上に固定されている、検体中に含まれる H L A - B 型のアレルの同定に利用し得るプローブアレイ。

10

【発明の詳細な説明】

【技術分野】

【0001】

本発明は、人の H L A - B アレルを同定するためのプローブセット及び特定方法に関する。

【背景技術】

【0002】

人白血球の H L A - B 型の各アレルについては、従来から血清学的レベルのタイピングが行われてきた。この場合、特別なサンプル処理を必要とせず、抗原抗体反応で容易にタイピングが可能である反面、同定できる内容はアミノ酸配列の違いを区別できるレベルを 4 桁以上の数字での命名法における 3、4 桁目とした場合、最初の 2 桁の数字が血清学的レベルのタイピングで同定可能なレベルである（日本組織適合性学会 H L A 標準化委員会「アレル表記法と結果報告の原則について 2 0 0 0」<http://jshi.umin.ac.jp/standardization/hyoki.html>参照）。

20

【0003】

その他のゲノム抽出を伴うタイプの市販キットの多くは、各アレルを個別に同定可能な精度のものではなく、複数のアレルをセットとして区別しているのが現状である。また最も詳細な多型解析を可能とする S B T (Sequencing Based Typing) 法に基づくキットにしても、たいいていのサンプルはヘテロ接合体であるため、ambiguityの問題を一度に解決できず、再検査を必要とすることが多い。こうした問題を伴うアレルは、I H W G 学会の

30

<http://www.ihwg.org/protocols/sbt/ambiguities2.pdf>にまとめて紹介されている。
【非特許文献 1】（日本組織適合性学会 H L A 標準化委員会「アレル表記法と結果報告の原則について 2 0 0 0」（<http://jshi.umin.ac.jp/standardization/hyoki.html>のサイト）

【非特許文献 2】<http://www.ihwg.org/protocols/sbt/ambiguities2.pdf>

【発明の開示】

【発明が解決しようとする課題】

【0004】

一方、近年は高度医療の発達に伴い、臓器移植などの際に詳細なタイピングが要求されるほか、糖尿病や癌、その他多因子病においても、薬剤投与との関連が示唆され、医療行為に対するエヴィデンスが求められている。こうした背景から、各アレルを個別に同定可能な試験方法が望まれており、本発明はかかる要望に対して H L A - B の各アレルを個別に同定するために有用であるプローブセット及びそれをを用いた H L A - B のアレルの同定方法を提供することを目的とする。

40

【課題を解決するための手段】

【0005】

本発明にかかる H L A - B 型のアレルを同定するためのプローブセットは、明細書中の配列番号 1 ~ 2 7 0 で表されるそれぞれの塩基配列またはその一部を有するプローブを全部含むプローブ群または配列番号 2 7 1 ~ 5 1 7 で表されるそれぞれの塩基配列またはその一部を有するプローブを全部含むプローブ群からなり、前記 2 つのプローブ群の各プロ

50

ープは、大文字で表記された塩基が欠落することがない範囲で明細書中の配列番号518～1011で表される塩基配列からなるHLA-B型のアレルリスト中から選択された15～30塩基の連続した塩基からなり、検体中に含まれるHLA-B型のアレルの同定に利用し得るプローブセットである。

【0006】

また、本発明にかかるHLA-Bアレルの同定方法は、検体からの試料中に含まれるHLA-B型のアレルをプローブセットを用いて同定する方法であって、該プローブセットが請求項1または2に記載のプローブセットであって、明細書中の表3又は表4に記載されるアレル-プローブ対応リストに基づいて、検体中のアレルを同定することを特徴とする、HLA-DQ型のアレルを同定する方法である。

【発明の効果】

【0007】

本発明にかかるプローブセット及びそれを用いたHLA-Bアレルの同定によって、臓器移植、癌、糖尿病、その他多因子病において必要とされる体質判定、テーラーメイド医療に貢献することができる。

【発明を実施するための最良の形態】

【0008】

本発明のプローブセットを構成する各プローブは後述するアレルリストの各アレルにおける大文字表記の塩基を含む部分配列をそれぞれが有するものである。大文字の塩基を含む15～30個の連続した塩基からなる部分を選択し得られた部分塩基配列からなるプローブを用いてプローブセットを構成する。具体例としては、後述の表1-1～1-9のプローブリスト1または表2-1～2-8のプローブリスト2に挙げられた各プローブ群からプローブセットを構成することができる。例えば、プローブリスト1における0番のプローブは、B*070201の最初の大文字(G)が含まれている部分「aggtatttctacacctccG」の19塩基配列からなるものであり、プローブリスト2におけるプローブ0番もまた同じアレルの最初の大文字のGを含む部分「cacctccGtgtcccg」の16塩基配列からなるものである。

【0009】

なお、後述のアレルリストにおける「B*」で示されている番号は、各アレルに付された固有の番号であり、日本組織適合性学会HLA標準化委員会による「アレル表記法」に従ったものである。

【0010】

本発明にかかるアレルの同定方法におけるプローブによるアレルの検出には、例えば、2つの方法が可能である。一つはハイブリダイゼーション法によって検出する場合と、もう一つはPCR法によってハイブリダイゼーションをすることなしに直接検出する場合である。いずれの場合も、大文字の塩基を含む15～30個の連続した長さのオリゴヌクレオチドに、大文字で表した塩基を含むようにプローブが設計される。

【0011】

また、本発明において提供されるプローブアレイは、各アレルを個別に同定するための変異塩基の組をプローブとして選択する位置で提示しているともいえる。この変異塩基を検出するための方法にもハイブリダイゼーション法による検出方法と、PCR法によってハイブリダイゼーションをすることなしに直接検出する方法が好適に利用できる。これらの場合にも、大文字の塩基を含む15～30個の連続した長さのオリゴヌクレオチドに、大文字で表した塩基を含むようにプローブが設計される。

【0012】

ハイブリダイゼーションによって変異を検出する場合は、プローブの中心付近にミスマッチが(即ち大文字で表した変異塩基が)来るようにプローブを設計したほうが、フルマッチとミスマッチの配列間でT_mに差がつきやすく、ハイブリダイゼーションの反応温度を調節することによって、両者を分離しやすい。

【0013】

10

20

30

40

50

一方PCR法によって直接変異を検出する場合は、酵素がアニールした二本鎖を認識して伸長しないよう、むしろ3'末端側にミスマッチを配置することが行われる。またAllel Specific Primerのように、3'末端から2つ目にミスマッチを配置し、3個目に人為的にミスマッチを追加したり(東洋紡(株))、3'末端側にミスマッチを配置するがライゲーションによって、プローブの環状化を行う方法(アマシャムバイオサイエンス(株))、TaqMan-MGB法(ABI社)LNAを使った3'末端ミスマッチ(プロリゴ・ジャパン(株))など、いくつかのバリエーションが可能である。

【実施例】

【0014】

以下実施例により本発明を更に説明する。

10

【0015】

(実施例1)

アマシャムバイオサイエンスのGFX Genomic Blood DNA Purification Kitを使って、人の血液1mlからDNAの抽出を行った。以下にプロトコールを示す。

【0016】

血液1ml

+RBC Lysis Solution(溶血)

+血液サンプル(穏やかに混和)

室温、5分間

12,000~16,000×g、20秒間遠心

上清を20~50μl残して捨てる

沈殿物を再懸濁

+Extraction Solution(激しくボルテックス)

室温、5分間(DNAの抽出)

Collection TubeにGFX Columnをセット

溶出バッファを70℃に加熱

+サンプル

5,000×g、1分間遠心(DNAの結合)

+Extraction Solution(洗浄)

5,000×g、1分間遠心

+Wash Solution(洗浄)

12,000×g、3分間遠心

GFX Columnを遠心チューブにセット

+純水で溶出

室温、1分間

5,000~8,000×g、1分間遠心

230μlに濃縮調整.....溶液(1)

【0017】

次にキアゲン社のQuantiTect SYBR Green PCR Kit、ABI社のGeneAmp5700を使って、定量PCRを行った。反応組成およびプロトコールを以下に示す。

40

1) 反応組成/well(96wellマイクロプレート)

QuantiTect SYBR Green 2×プレミクス: 10μl

溶液(1): 1μl

プローブリスト1の各プローブ(10 pmol/μl): 1μl

ミックスプライマ(10 pmol/μl)注): 3μl

超純水: 5μl

(合計: 20μl)

注) 以下の配列を持つ各10 pmol/μlの水溶液各1μl

CTGAGCTCTTCCTCCTACACA

TCCTCCCGTTCTCCAGGT

50

AGGTCTCGGTCAGGGCCA

2) PCRプログラム

94 : 180 secの後に(94 : 10sec + 66 : 10sec + 72 : 20sec)の30 cyclesを行った。5700ソフトウェア画面上のAmp PlotおよびDissociationカーブおよびアレル - プローブ対応リスト1(後述)を参照して、B*520101であると同定された。

【0018】

(実施例2)

人の血液1mlからのDNA抽出は、実施例1と同様に行った。次にタカラバイオ(株)のEx Taq、ABI社のPCR装置9700を使って、人HLA-BのPCRを行った。反応組成およびプロトコールを以下に示す。

1) 反応組成/tube

Ex Taq 2 x プレミクス : 20 μl

溶液(1) : 3 μl

Cy-3 dUTP (1 mM) : 2 μl

ミックスプライマ(10 pmol/μl)注) : 2 μl

超純水 : 13 μl

(合計 : 40 μl)

注) 以下の配列を持つ各10 pmol/μlの水溶液各1 μl

CTGAGCTCTTCTCCTACACA

GCTCCCACTCCATGAGGTATTTTC

2) PCRプログラム

94 : 180secの後に、(94 : 10sec + 66 : 10sec + 72 : 20sec)の30cyclesを行った。反応終了後、精製用カラム(QIAGEN QIAquick PCR Purification Kit)を用いて未反応のdNTPs等のClean Upを行った。

【0019】

一方上述の検体に対して、アレルを同定するためのDNAマイクロアレイを作製した。作製の方法は、特開平11-187900号公報の実施例に従った。固相化のための官能基はSH基とし、ガラス基板上にシランカップリング処理を行い、2価性試薬のEMCS(N-(6-Maleimidocaproyloxy)succinimide)介してSH基と架橋した。各ドットのプローブは、プローブリスト2の各プローブを用いた。

【0020】

次に先ほどの検体と作製したDNAマイクロアレイを用いて、ハイブリダイゼーションを行った。DNAマイクロアレイは予めBSA(牛血清アルブミン)1wt%加PBSで2時間ブロッキングした。検体はその塩濃度がPBSと等しくなるように、また0.1wt% SDS(ドデシル硫酸ナトリウム)、25% Formamideとなるように調整し、その50 μlを、先ほどのブロッキング済みDNAマイクロアレイと60 で2時間反応させ、未反応物を2 x SSC溶液(NaCl 300 mM、Sodium Citrate (trisodium citrate dihydrate, C6H5Na3 · 2H2O) 30 mM、p.H. 7.0)で3回、続いて0.1 x SSC溶液で2回洗浄した後風乾させ、Axon社製、GenePix 4000Bを用いて蛍光測定を行った。アレル - プローブ対応リスト2(後述)を参照してB*520101であることが同定された。

【0021】

アレルリスト

B*070201 atgctgggtcatggcgccccgaaccgtcctcctgctgctctcggcggccctggccctgaccgagacctgggc
cggctcccactccatgaggtatcttacacctccGtgtcccggccccggcggggagccccgcttcatctcagtgggct
acgtggacgacaccagttcgtgaggttcgacagcgacgccgaggtccgagagaggagccgccccgcccgtgga tagag
caggagggggccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcgga
cctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagCatgtacggctgcgacgtggggccggacg
ggcgccctcctccgccccgagTaccagTaccgctacgacggcaaggattacatcgccctgaacgaggacctgcgctcctgg
accgcccggacacggcggctcagatcaccagcgcaagtgggagggcggccgtgaggcggagcagcGGagagcctacct
ggagggcgAgtgctggagtGgctccgcagatacctggagaacgggaaggacaagctGagcgcgctgacccccaaaga

10

20

30

40

50

cacacgtgaccaccacccca tctctgaccatgaggccaccctgaggtgctgggccc tgggt t tctaccc tgcggagatc
 acactgacctggcagcggga tggcaggaccacaaactcaggacactgagct t g tggagaccagaccagcaggagatagaac
 ct tccagaagtgggcagctgtggtgg tgcct tctggagaagagcagagatacaca tgcctatgtacagcatgaggggctgc
 cgaagcccc taccctgagatgggagccgtct tcccag tccaccgtccccatcg tgggcat t g t gctggcc tggc t g t c
 ctaNNNgcagt t g t g g t c a t c g g a g c t g t g g t c g t g c t g t g a t g t g t a g g a g g a a g a g t t c a g g t g g a (配列番
 号 : 5 1 8)

【 0 0 2 2 】

B*070202 atgctggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggc
 cggctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgct tcatctcagtgggct
 acgtggacgacaccacag t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a t a g a g
 caggagggccggagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcgga
 cctgcgaggctactacaaccagagcaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacg
 ggccctcctccgaggcatgaccagtacgctacgacggcaaggat taca t c g c c c t g a a c g a g g a c c t g c g c t c c t g g
 accgcccggacacggcggctcagatcaccagcgaagtgggagggcccg t g a g g c g g a g c a g c g g a g a g c t a c c t
 ggagggcgagtgcgtggagtggctccgcagGtacc tggagaacgggaaggacaagc tggagcgcgtgacccccaaaga
 cacacgtgaccaccacccca tctctgaccatgaggccaccctgaggtgctgggccc tgggt t tctaccc tgcggagatc
 acactgacctggcagcggga tggcaggaccacaaactcaggacactgagct t g t g g a g a c c a g a c c a g c a g g a g a t a g a a c c t
 ct tccagaagtgggcagctgtggtgg tgcct tctggagaagagcagagatacaca tgcctatgtacagcatgaggggctgc
 cgaagcccc taccctgagatgggagccgtct tcccag tccaccgtccccatcg tgggcat t g t g c t g g c c t g g c t g t c
 cta. . .gcagt t g t g g t c a t c g g a g c t g t g g t c g t g c t g t g a t g t g t a g g a g g a a g a g t t (配列番号 : 5 1
 9)

10

20

【 0 0 2 3 】

B*070203 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgct tca t c t ca
 gtgggtacgtggacgacacGcagt t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c c c g t g
 gatagagcaggagggccggagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcc
 tgcggaacctgcgaggctactacaaccagagcaggccgggtctcacacctccagagcatgtacggctgcgacgtgggg
 ccggacggcgcc t c c t c c g c g g g c a t g a c c a g t a c g c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g
 ctctggaccgcccgggacacggcggctcagatcaccagcgaagtgggagggcccg t g a g g c g g a g c a g c g g a g a g
 cctacctggagggcgagtgcgtggagtggctccgcagat t a c c t g g a g a a c g g g a a g g a c a a g c t g g a g c g c g t g (配
 列番号 : 5 2 0)

30

【 0 0 2 4 】

B*0703 atgctggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccg
 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgct tcatctcagtgggctac
 gtggacgacaccacag t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a t a g a g c a
 ggagggccggagtat tgggaccggaacacacagatctacaagaccaacAcacagactgaccgagagagcctgcggaacc
 tgcgaggctactacaaccagagcaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctcctccgaggcatgaccagtacgctacgacggcaaggat taca t c g c c c t g a a c g a g g a c c t g c g c t c c t g g a c
 cgccgggacacggcggctcagatcaccagcgaagtgggagggcccg t g a g g c g g a g c a g c g g a g a g c t a c c t g g
 agggcgagtgcgtggagtggctccgcagat t a c c t g g a g a a c g g g a a g g a c a a g c t g g a g c g c g t g a c c c c c a a a g a c a
 cacgtgaccaccacccca tctctgaccatgaggccaccctgaggtgctgggccc tgggt t tctaccc tgcggagatcac
 actgacctggcagcggga tggcaggaccacaaactcaggacactgagct t g t g g a g a c c a g a c c a g c a g g a g a t a g a a c c t
 tccagaagtgggcagctgtggtgg tgcct tctggagaagagcagagatacaca tgcctatgtacagcatgaggggctgccg
 aagcccc taccctgagatgggagccgtct tcccag tccaccgtccccatcg tgggcat t g t g c t g g c c t g g c t g t c c t
 a. . .gcagt t g t g g t c a t c g g a g c t g t g g t c g t g c t g t g a t g t g t a g g a g g a a g a g t t c a g g t g g a (配列番号
 : 5 2 1)

40

【 0 0 2 5 】

B*0704 atgctggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccg
 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgct tcatctcagtgggctac
 gtggacgacaccacag t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a t a g a g c a
 ggagggccggagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc

50

tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctccctccgcgggcatgaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgcgctccctggac
 cgccgcgacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcaggaCagagcctaccctgg
 agggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgtgacccccaaagaca
 cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggtttctacctgicggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccgtcttcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagttcaggtgga (配列番号
 : 5 2 2)

10

【 0 0 2 6 】

B*0705 atgctggtcatggcgccccgaaccgtcctcctgctgctctcgggcgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacacctccgtgtcccggcccgccgcggggagccccgcttcatctcagtgggtac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgagctccgagagaggagccgccccgctgga tagagca
 ggagggcccgagtatgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctccctccgcgggcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgcgctccctggac
 cgccgcgacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcggagagcctaccctgg
 agggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgtgacccccaaagaca
 cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggtttctacctgicggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccgtcttcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagttcaggtgga (配列番号
 : 5 2 3)

20

【 0 0 2 7 】

B*0706 atgctggtcatggcgccccgaaccgtcctcctgctgctctcgggcgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacacctccgtgtcccggcccgccgcggggagccccgcttcatctcagtgggtac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgagctccgagagaggagccgccccgctgga tagagca
 ggagggcccgagtatgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctccctccgcgggcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgcgctccctggac
 cgccgcgacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcggagagcctaccctgg
 agggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgtgacccccaaagaca
 cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggtttctacctgicggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccgtcttcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagttcaggtgga (配列番号
 : 5 2 4)

30

40

【 0 0 2 8 】

B*0707 gctcccactccatgaggtatttctacacctccgtgtcccggcccgccgcggggagccccgcttcatctcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgagctccgagagaggagccgccccgctgga
 tagagcaggagggccggagtatgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacggcgccctccctccgcgggcatgaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgcccgagacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcggagagcc
 tactggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgtg (配
 列番号 : 5 2 5)

【 0 0 2 9 】

50

B*0708 ggctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcag
 tgggtacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgg
 atagagcaggaggggcccggagtat tgggaccggaacacacagatctTcaagaccaacAcacagactgaccgagagagcct
 gcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgtacggctgcgacgtggggc
 cggacgggcgctcctccgcgggcatgaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgcg
 tcttgaccgcccggacacggcggtcagatcacccagcgcaagtgggagggcgcccgtagggcggagcagcggagagc
 ctacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgct (配
 列番号：526)

【0030】

B*0709 atgctgggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggtac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga tagagca
 ggaggggcccggagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgtacggctgcgacgtggggcggacggg
 cgctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccctgaacgaggacctgcgctcctggac
 cgccgcgacacggcggtcagatcacccagcgcaagtgggagggcgcccgtagggcggagcagcggagagcctacctgg
 agggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配列番号：
 527)

【0031】

B*0710 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtat tgggaccggaacacacagatctGcaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgtacggctgcgacgtggggcc
 ggacgggcgctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgcccggacacggcggtcagatcacccagcgcaagtgggagggcgcccgtagggcggagcagcggagagcc
 tacttggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：528)

【0032】

B*0711 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagaAcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgtacggctgcgacgtggggcc
 ggacgggcgctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgcccggacacggcggtcagatcacccagcgcaagtgggagggcgcccgtagggcggagcagcggagagcc
 tacttggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：529)

【0033】

B*0712 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgtacggctgcgacgtggggcc
 Cgacgggcgctcctccgcgggcatgaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgcccggacacggcggtcagatcacccagcgcaagtgggagggcgcccgtagggcggagcagcggagagcc
 tacttggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：530)

【0034】

B*0713 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgagaggggagccgcgggcgccgtggg
 tggagcaggaggggcccggagtat tgggaccgggagacacagaagtacaagcGccaggcacagGctgaccgagTgagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgtacggctgcgacgtggggcc

10

20

30

40

50

ggacgggcgccctcctccgcgggcatgaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagcggagagcc
 tacctggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号: 5 3 1)

【 0 0 3 5 】

B*0714 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacctcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgcggctactacaaccagagcagggccgggtctcacaTcAtccagagGatgtacggctgcgacgtggggcc
 ggacgggcgccctcctccgcgggTatgaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagcggagagcc
 tacctggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号: 5 3 2)

【 0 0 3 6 】

B*0715 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacctcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtattggaccggaacacacagatctacaaggcccaggcacagGctgaccgagTgacctg
 cggaaacctgcgcggctactacaaccagagcagggccgggtctcacacctccagagcatgtacggctgcgacgtggggcc
 ggacgggcgccctcctccgcgggcatgaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagcggagagcc
 tacctggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号: 5 3 3)

【 0 0 3 7 】

B*0716 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacctcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtattggaccggaacacacagatctacaagaccaacAcacagactTaccgagagacctg
 cggaaacctgcgcggctactacaaccagagcagggccgggtctcacacctccagagcatgtacggctgcgacgtggggcc
 ggacgggcgccctcctccgcgggcatgaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagcggagagcc
 tacctggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号: 5 3 4)

【 0 0 3 8 】

B*0717 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacctcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgcggctactacaaccagagcagggccgggtctcacacctccagagcatgtacggctgcgacgtggggcc
 ggacgggcgccctcctccgcgggTatgaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgcgct
 cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagcggagagcc
 tacctggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号: 5 3 5)

【 0 0 3 9 】

B*0718 atgctgggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
 gtggacgacacctcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga tagagca
 ggaggggcccggagtattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctgcggaacc
 tgcgcggctactacaaccagagcagggccgggtctcacaTcAtccagaggtgtaTggctgcgacgtggggccggacggg
 cgccctcctccgcgggcatgaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgcgctcctggac
 cgccgacacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagcggagagccacctgg
 agggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctgacccccaaagaca
 cacgtgaccaccaccctctctgacctgaggccacctgaggtgctggggccctgggtttctacctgaggagatcac

10

20

30

40

50

actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagcttgtgtggtgacctcttgagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccgtcttcccagtcaccgccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagtaggaggaagagttaggtgga (配列番号
 : 5 3 6)

【 0 0 4 0 】

B*0719 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtaattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgaggctactacaaccagagcggaggccgggtctcacacctccagagcattgacggctgagacctggggcc
 ggacgggcccctctccgaggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgccgagacacggcggctcagatcacccagcgaagtgggaggcggccccgtgaggcggagcaggaCagagcc
 tacctggagggcaCgtgctggtgagtggtccgcagataacctggagaacgggaaggagGacgctggagcgcgcGg (配
 列番号 : 5 3 7)

10

【 0 0 4 1 】

B*0720 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtaattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgaggctactacaaccagagcggaggccgggtctcacacctccagagcattgacggctgagacctggggcc
 ggacgggcccctctccgaggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgccgagacacggcggctcagatcacccagcgaagtgggaggcggccccgtgaggcggagcagcggagagcc
 tacctggagggcTgtgctggtgagtggtccgcagataacctggagaacgggaaggacaagctggagcgcgcTg (配
 列番号 : 5 3 8)

20

【 0 0 4 2 】

B*0721 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccgcggggagcTccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtaattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgaggctactacaaccagagcggaggccgggtctcacacctccagagcattgacggctgagacctggggcc
 ggacgggcccctctccgaggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgccgagacacggcggctcagatcacccagcgaagtgggaggcggccccgtgaggcggagcagcggagagcc
 tacctggagggcagtgctggtgagtggtccgcagataacctggagaacgggaaggacaagctggagcgcgcTg (配
 列番号 : 5 3 9)

30

【 0 0 4 3 】

B*0722 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtaattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgaggctactacaaccagagcggaggccgggtctcacacctccagagcattgacggctgagacctggggcc
 ggacgggcccctctccgaggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgccgagAacacggcggctcagatcacccagcgaagtgggaggcggccccgtgaggcggagcagcggagagcc
 tacctggagggcagtgctggtgagtggtccgcagataacctggagaacgggaaggacaagctggagcgcgcTg (配
 列番号 : 5 4 0)

40

【 0 0 4 4 】

B*0723 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtaattggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgaggctactacaaccagagcggaggccgggtctcacacctccagagcattgacggctgagacctggggcc
 ggacgggcccctctccgaggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgccgagacacggcggctcagatcacccagcgaagtgggaggcggccccgtgaggcggagcagcggagagcc
 tacctggagggcagtgctggtgagtggtccgcagataacctggagaacgggaaggacaagctggagcgcgcTg (配
 列番号 : 5 4 1)

50

【 0 0 4 5 】

B*0724 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgcgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtaattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
 ggacgggcccctctccgcgggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgccgagacacggcggtcagatcacccagcgcaagtgggagggcgcccgtgaggcggagcagcggagagcc
 tacctggagggcCtgtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：542)

【 0 0 4 6 】

B*0725 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgcgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtaattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
 ggacgggcccctctccgcgggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgccgagacacggcggtcagatcacccagcgcaagtgggagggcgcccgtgTggcggagcaggaCagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：543)

【 0 0 4 7 】

B*0726 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgcgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtaattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
 ggacgggcccctctccgcgggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgccgagacacggcggtcagatcacccagcgcaagtgggagggcgcccgtgaggcggagcagcTgagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：544)

【 0 0 4 8 】

B*0727 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgcgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtaattgggaccggaacacacagatctCcaagaccaacacacagactTaccgagagGacctg
 cggacctgctCgctactacaaccagagcgaggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
 ggacgggcccctctccgcgggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgccgagacacggcggtcagatcacccagcgcaagtgggagggcgcccgtgaggcggagcagcggagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：545)

【 0 0 4 9 】

B*0728 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgcgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtaattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
 ggacgggcccctctccgcgggTatgaccagGacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgccgagacacggcggtcagatcacccagcgcaagtgggagggcgcccgtgaggcggagcagcggagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：546)

【 0 0 5 0 】

B*0729 gctcccactccatgaggtatttctGacaccgccAgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgcgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtaattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattgacggctgcgacgtggggcc

10

20

30

40

50

ggacgggcgccctcccggggcatgaccagtacgacctacgacggcaaggattacatcgccctgaacgaggacctgcgct
cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagcggagagcc
tacctggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 5 4 7)

【0051】

B*0730 gctcccactccatgaggattttctacacctccgtgtcccgccccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacctcagtgaggctcgacagcgacgccgagctccgagagaggagccgcCggcgccgtgga
tagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
cggaaactgcgcggtactacaaccagagcggggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
ggacgggcgccctcccggggcatgaccagtacgacctacgacggcaaggattacatcgccctgaacgaggacctgcgct
cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagcggagagcc
tacctggagggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 5 4 8)

【0052】

B*0731 gctcccactccatgaggattttctacacctccgtgtcccgccccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacctcagtgaggctcgacagcgacgccgagctccgagagaggagccgcggcgccgtgga
tagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
cggaaactgcgcggtactacaaccagagcggggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
ggacgggcgccctcccggggcatgaccagtacgacctacgacggcaaggattacatcgccctgaacgaggacctgcgct
cctggaccgccgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagcggagagcc
tacctggagggcACgtgcgtggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 5 4 9)

【0053】

B*0801 atgctgggtcatggcgccccgaacctcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
gctcccactccatgaggattttGacaccgccaatgtcccggccccggccggggagccccgcttcatctcagtgggctac
gtggacgacacgcagttcgtgaggctcgacagcgacgccgagctccgagagaggagccggcgccgtgga tagagca
ggaggggcccggagtattgggaccggaacacacagatctcaagaccaacacacagactgaccgagagacctgcggaacc
tgcgcggtactacaaccagagcggggccgggtctcacacctccagagcattgacggctgcgacgtggggccggacggg
cgctcctccggggcatgaccagtacgacctacgacggcaaggattacatcgccctgaacgaggacctgcgctcctggac
cgcggggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcaggacagagacctacctgg
agggcacgtgctggagtggctccgcagatacctggagaacgggaaggacacgctggagcgcgggacccccaaagaca
cacgtgaccaccaccatctctgaccatgaggccacctgaggctgctggggccctgggcttctacctgcggagatcac
actgacctggcagcgggatggcgaggacaaactcaggacactgagcttggtagaccagaccagcaggagatagaacct
tccagaagtgggcagctgtgggtgcttctggagaagagcagagatcacatgccatgtacagcatgaggggctgccg
aagccccaccctgagatgggagccgtcttcccagtcaccgtccccatcgctgggcatgtgtgctggcctggctgctct
a...gcagttgtgggtcatcggagctgtggctcgctgctgtgagtgttaggaggaagagCtcaggtgga (配列番号
: 5 5 0)

【0054】

B*0802 atgctgggtcatggcgccccgaacctcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
gctcccactccatgaggattttGacaccgccaatgtcccggccccggccggggagccccgcttcatctcagtgggctac
gtggacgacacgcagttcgtgaggctcgacagcgacgccgagctccgagagaggagccggcgccgtgga tagagca
ggaggggcccggagtattgggaccggaacacacagatctcaagaccaacacacagactgaccgagagaacctgcgaccg
cgctcCgctactacaaccagagcggggccgggtctcacacctccagagcattgacggctgcgacgtggggccggacggg
cgctcctccggggcatgaccagtacgacctacgacggcaaggattacatcgccctgaacgaggacctgcgctcctggac
cgcggggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcaggacagagctacctgg
agggcacgtgctggagtggctccgcagatacctggagaacgggaaggacacgctggagcgcgggacccccaaagaca
cacgtgaccaccaccatctctgaccatgaggccacctgaggctgctggggccctgggcttctacctgcggagatcac
actgacctggcagcgggatggcgaggacaaactcaggacactgagcttggtagaccagaccagcaggagatagaacct
tccagaagtgggcagctgtgggtgcttctggagaagagcagagatcacatgccatgtacagcatgaggggctgccg
aagccccaccctgagatgggagccgtcttcccagtcaccgtccccatcgctgggcatgtgtgctggcctggctgctct
a...gcagttgtgggtcatcggagctgtggctcgctgctgtgagtgttaggaggaagagCtcaggtgga (配列番号
: 5 5 0)

10

20

30

40

50

a...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcaggtgga (配列番号 : 5 5 1)

【 0 0 5 5 】

B*0803 ttcgacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagtgggctacgtggacgacacgc agttcgtgaggttcgacagcgacgccgaggtccgagagaggagccgcgggcgccgtggatagagcaggaggggcccggag tattgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctgcggaTcgCgctcCgctacta caaccagagcgaggccgggtctcacacctccagagcattacggctgacgagctggggccggacgggcccctctccgcg ggcatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgctccggaccgggcgggacacc gcggtcagatcaccagcgcaagtgaggagggcccggtTggcggagcaggaCagagctacctggagggcACgtgct ggagtggtccgcagataacctggagaacgggaaggacacgctggagcgcgGg (配列番号 : 5 5 2)

10

【 0 0 5 6 】

B*0804 gctcccactccatgaggtatttcGacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagt gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgaggtccgagagaggagccgcgggcgccgtgga tagagcaggaggggcccggagattgggaccggaacacacagatctCcaagaccaacacacagactgaccgagagagcctg cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattacggctgacgagctggggcc ggacgggcccctctccgcgggcatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct cctggaccgcgggcggacaccgcggtcagatcaccagcgcaagtgaggagggcccggtggcggagcaggaCagagcc tactggagggcAcgtgctggagtggtccgcagataacctggagaacgggaaggacacgctggagcgcgGg (配 列番号 : 5 5 3)

20

【 0 0 5 7 】

B*0805 gctcccactccatgaggtatttcGacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagt gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgaggtccgagagaggagccgcgggcgccgtgga tagagcaggaggggcccggagattgggaccggaacacacagatctTcaagaccaacacacagactgaccgagagagcctg cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattacggctgacgagctggggcc ggacgggcccctctccgcgggcatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct cctggaccgcgggcggacaccgcggtcagatcaccagcgcaagtgaggagggcccggtggcggagcaggacagagcc tactggagggcAcgtgctggagtggtccgcagataacctggagaacgggaaggacacgctggagcgcgGg (配 列番号 : 5 5 4)

【 0 0 5 8 】

B*0806 gctcccactccatgaggtatttcGacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagt gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgaggtccgagagaggagccgcgggcgccgtgga tagagcaggaggggcccggagattgggaccggaacacacagatctTcaagaccaacacacagactgaccgagagagcctg cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattacggctgacgagctggggcc ggacgggcccctctccgcgggcatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct cctggaccgcccggcggacaccgcggtcagatcaccagcgcaagtgaggagggcccggtgaggcggagcagcggagagcc tactggagggcAcgtgctggagtggtccgcagataacctggagaacgggaaggacacgctggagcgcgGg (配 列番号 : 5 5 5)

30

【 0 0 5 9 】

B*0807 gctcccactccatgaggtatttcGacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagt gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgaggtccgagagaggagccgcgggcgccgtgga tagagcaggaggggcccggagattgggaccggaacacacagatctTcaagaccaacacacagactgaccgagagagcctg cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcattacggctgacgagctggggcc ggacgggcccctctccgcgggcatgaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct cctggaccgcccggcggacaccgcggtcagatcaccagcgcaagtgaggagggcccggtggcggagcaggaCagagcc tactggagggcAcgtgctggagtggtccgcagataacctggagaacgggaaggacacgctggagcgcgGg (配 列番号 : 5 5 6)

40

【 0 0 6 0 】

B*0809 gctcccactccatgaggtatttcGacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagt gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgaggtccgagagaggagccgcgggcgccgtgga tagagcaggaggggcccggagattgggaccggaacacacagatcttcaagaccaacacacagactgaccgagagagcctg

50

cggaacctgCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACTTGGCAGACGATGTA TGGCTGCGACGTGGGGCC
 GGACGGGCGCCTCCTCCGCGGGCATACCAGTACGCCTACGACGGCAAGGATACATCGCCCTGAACGAGGACCTGCGCT
 CCTGGACCGCGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGTGGCGGAGCAGGACAGAGCC
 TACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGACACGCTGGAGCGCGCGG (配
 列番号：557)

【0061】

B*0810 gctcccactccatgaggtatttcGacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a c a c a c a g a t c t T c a a g a c c a a c a c a c a g a c t g a c c g a g a g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g c a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t A a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c A c g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c G g (配
 列番号：558)

10

【0062】

B*0811 gctcccactccatgaggtatttcGacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t T c a a g a c c a a c a c a c a g a c t g a c c g a g a g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g c a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t A a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c g c g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c G g (配
 列番号：559)

20

【0063】

B*0812 gctcccactccatgaggtatttcGacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t T c a a g a c c a a c a c a c a g a c t g a c c g a g a g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g c a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t A a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c A c g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c G g (配
 列番号：560)

30

【0064】

B*0813 gctcccactccatgaggtatttcGacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t T c a a g a c c a a c a c a c a g a c t g a c c g a g a g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g c a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c T g a g a g c c
 t a c c t g g a g g g c A c g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c G g (配
 列番号：561)

40

【0065】

B*0814 gctcccactccatgaggtatttcGacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t T c a a g a c c a a c a c a c a g a c t g a c c g a g a g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g c a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g t a c c a c c a g G a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c A c g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c G g (配
 列番号：562)

50

【 0 0 6 6 】

B*0815 gctcccactccatgaggtat t t c g a c a c c g c c a t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t t c a a g a c c a a c a c a c a g a c t g a c c g a g T g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g c a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c a C g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c G g (配
 列番号 : 5 6 3)

【 0 0 6 7 】

B*0816 gctcccactccatgaggtat t t c g a c a c c g c c a t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t t c a a g a c c a a c a c a c a g G c t g a c c g a g a g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g g a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c a c g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c G g (配
 列番号 : 5 6 4)

【 0 0 6 8 】

B*0817 gctcccactccatgaggtat t t c G a c a c c g c c a t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 g g g c t a c g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a g c c g c g g g c g c c g t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g g a g a c a c a g a t c t C c a a g a c c a a c a c a c a g a c t g a c c g a g a g a A c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g c a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g c g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a c a g a g c c
 t a c c t g g a g g g c a c g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a c a c g c t g g a g c g c g c g g a c c c c c
 a a g a c a c a c g t g a c c c a c c a c c c a t c t c t g a c c a t g a g g c c a c c c t g a g g t g c t g g g c c c t g g g C t t c t a c c c t g c g g
 a g a t c a c a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t a g g a c a c t g a g c t t g t g g a g a c c a g a c c a g c a g g a g a t
 a g a a c c t t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g
 g c t g c c g a a g c c c c t c a c c c t g a g a t g g g (配列番号 : 5 6 5)

【 0 0 6 9 】

B*1301 a t g c g g g t c a c g g c g c c c c g a a c c c t c c t c c t g c t g c t c t g g g g g g c a g t g g c c c t g a c c g a g a c c t g g g c c g
 g c t c c c a c t c c a t g a g g t a t t t c t a c a c c g c c a t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t g g g c t a c
 g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c a c a g a g t c c g a g g a t g g c g c c c c g g g c g c c a t g g a t a g a g c a
 g g a g g g c c g g a g t a t t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g c g c a c c g
 c g t c c g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c A t c c a g a g g a t g t a t g g c t g c g a c c t g g g g c c g g a c g g g
 c g c c t c c t c c g c g g g c a t a a c c a g t t a g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t c c t g g a c
 c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c T c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c t a c c t g g
 a g g g c g a g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g a c c c c c a a g a c a
 c a c g t g a c c c a c c c c c a t c t c t g a c c a t g a g g c c a c c c t g a g g t g c t g g g c c t g g g c t t c t a c c c t g c g g a g a t c a c
 a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c t g a g c t t g t g g a g a c c a g a c c a g c a g g a g a t a g a a c c t
 t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g c t g c c g
 a a g c c c c t c a c c c t g a g a t g g g a g c c a t c t t c c c a g t c c a c c g t c c c c a t c g t g g g c a t g t g t g c t g g c c t g g c t g t c c t
 a . . . g c a g t t g t g g t c a t c g g a g c t g t g g t c g t g c t g t g a t g t g t a g g a g g a a g a g C t c a g g t g g a (配列番号
 : 5 6 6)

【 0 0 7 0 】

B*1302 a t g c g g g t c a c g g c g c c c c g a a c c c t c c t c c t g c t g c t c t g g g g g g c a g t g g c c c t g a c c g a g a c c t g g g c c g
 g c t c c c a c t c c a t g a g g t a t t t c t a c a c c g c c a t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t g g g c t a c
 g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c a c a g a g t c c g a g g a t g g c g c c c c g g g c g c c a t g g a t a g a g c a
 g g a g g g c c g g a g t a t t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g c g c a c c g

10

20

30

40

50

cgctccgctactacaaccagagcgaggccgggtctcacacttggcagaCgatgtaggctgcgacctggggccggacggg
 cgctccctccgcgggcataaaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgagctccctggac
 cgcgggcgacaccgcggtcagatcaccagcTcaagtgggagggcccggtgtggcggagcagctgagagcctacctgg
 agggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgacctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 5 6 7)

10

【 0 0 7 1 】

B*1303 atgcggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtattctacaccgccaatgtcccggcccgccgcggggagccccgcttcatcaccgtgggtac
 gtggacgacaccagttcgtgaggttcgacagcgacgccacgagtcgaggaaggcgccccggcgccaatggaatagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctgcgacccg
 cgctcCgctactacaaccagagcgaggccgggtctcacacttggcagacgatgtaggctgcgacctggggccggacggg
 cgctccctccgcgggcataaaccagttAgcctacgacggcaaggattacatcgccctgaacgaggacctgagctccctggac
 cgcgggcgacaccgcggtcagatcaccagcgaagtgggagggcccggtgtggcggagcagctgagagcctacctgg
 agggcTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgacctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 5 6 8)

20

【 0 0 7 2 】

B*1304 atgcggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtattctacaccgccaatgtcccggcccgccgcggggagccccgcttcatcaccgtgggtac
 gtggacgacaccagttcgtgaggttcgacagcgacgccacgagtcgaggaaggcgccccggcgccaatggaatagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctgcgacccg
 cgctccgctactacaaccagagcgaggccgggtctcacacttggcagacgatgtaggctgcgacctggggccggacggg
 cgctccctccgcgggcataaaccagtCcgctacgacggcaaggattacatcgccctgaacgaggacctgagctccctggac
 cgcgggcgacaccgcggtcagatcaccagcgaagtgggagggcccggtgtggcggagcagctgagagcctacctgg
 agggcctgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgacctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccAtccaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagctcaggtgga (配列番号
 : 5 6 9)

30

40

【 0 0 7 3 】

B*1306 gctcccactccatgaggtattctacaccgccaatgtcccggcccgccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccacgagtcgaggaaggcgccccggcgccaatgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgacccgctccgctactacaaccagagcgaggccgggtctcacatcatccagaggaatgtaggctgcgacctggggcc
 ggacgggcccctccctccgcgggcataaaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcTcaagtgggagggcccggtgtggcggagcagctgagagcc
 tactggagggcaCgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgagg (配
 列番号 : 5 7 0)

【 0 0 7 4 】

50

B*1308 atgctgggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacaccgcca t g t c c c g g c c c g g c c g g g g a g c c c c g c t t c a t c a c c g t g g c t a c
 g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c a c a g a g t c c g a g g a t g g c g c c c c g g g c g c c a t g g a t a g a g c a
 g g a g g g g c c g g a g t a t t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g c g c a c c g
 c g t c c g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c t t g g c a g a c g a t g t a t g g c t g c g a c c t g g g g c c g g a c g g g
 c g c c t c c t c c g c g g g c a t a a c c a g t t a g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t c c t g g a c
 c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c t c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c t G c c t g g
 a g g g c g a g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g g g a c c c c c a a a g a c a
 c a c g t g a c c c a c c a c c c a t c t c t g a c c a t g a g g c c a c c t g a g g t g c t g g g c c t g g g c t t c t a c c c t g c g g a g a t c a c
 a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c t g a g c t t g t g g a g a c c a g a c c a g c a g g a g a t a g a a c c t
 t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g a t g a g g g g c t g c c g
 a a g c c c c t a c c c t g a g a t g g g a g c a t c t t c c c a g t c c a c c g t c c c c a t c g t g g g c a t g t t g c t g g c c t g g c t g t c c t
 a . . . g c a g t t g t g g t c a t c g g a g c t g t g g t c g t g c t g t g a t g t g t a g g a g g a a g a g c t c a g g t g g a (配 列 番 号
 : 5 7 1)

【 0 0 7 5 】

B*1309 gctcccactccatgaggtat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g c t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c a c a g a g t c c g a g g a t g g c g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a c c t g
 c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c t t g g c a g a C g a t g t a T g g c t g c g a c c t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t t A g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c T c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c
 t a c c t g g a g g g c g a g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列 番 号 : 5 7 2)

【 0 0 7 6 】

B*1310 gctcccactccatgaggtat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g c t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c a c a g a g t c c g a g g a t g g c g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g c a c c g c g c t c c g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c t c c a g a g g a t g t a c g g c t g c g a c c t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g t a t g a c c a g t C g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c T c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c
 t a c c t g g a g g g c g a g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列 番 号 : 5 7 3)

【 0 0 7 7 】

B*1311 gctcccactccatgaggtat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g c t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c a c a g a g t c c g a g g a t g g c g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g c a c c g c g c t c c g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c t c c a g a g g a t g t a c g g c t g c g a c c t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t t a g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c T c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c
 t a c c t g g a g g g c g a g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g a c c c c c
 a a g a c a c a c g t g a c c c a c c a c c c a t c t c t g a c c a t g a g g c c a c c c t g a g g t g c t g g g c c c t g g g C t t c t a c c c t g c g g
 a g a t c a c a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c t g a g c t t g t g g a g a c c a g a c c a g c a g g a g a t
 a g a a c c t t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g
 g c t g c c g a a g c c c c t c a c c c t g a g a t g g g (配 列 番 号 : 5 7 4)

【 0 0 7 8 】

B*1401 atgctgggtcatggcgccccgaacctcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacacctcctgctgctcctcgggcccgccgcggggagccccgcttcatctcagtgggctac
 g t g g a c g a c a c g c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g a g a g g a c c c g g g g c g c c g t g g a t a g a g c a
 g g a g g g g c c g g a a t a t t g g g a c c g g a a c a c a c a g a t c t g c a a g a c c a a c a c a c a g a c t g a c c g a g a g a g c c t g c g g a a c c
 t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c c t c c a g T g g a t g t a t g g c t g c g a c g t g g g g c c g g a c g g g

10

20

30

40

50

cgctcctccgcggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgcgacaccgcggtcagatcaccagcgcaagtggagggcgcccgtagggcgagcagctgagagcctaccagg
 agggcacgtgctggagtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcgacccccaaagaca
 catgtgaccaccaccatctctgacatgaggccacctgaggtgctgggcccgggctctaccctgcgagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacaccgagctgtggagaccagaccagcaggagaCagaacct
 tccagaagtgggcagctgtgggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccAtctcccagtcaccgccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggatcatcggagctgtggctgctgtgtgtgtaggaggaagagttcaggtgga (配列番号
 : 5 7 5)

【 0 0 7 9 】

10

B*1402 atgctggatcatggcgccccgaaccgtcctcctgctgctctcgcgggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccGccgtgtcccggcccggcggggagccccgcttcatctcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga tagagca
 ggagggccggaatattgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgggcccgtctcacacctccagTggatgtaggtgctgcgagctggggccggacggg
 cgctcctccgcggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgcgacaccgcggtcagatcaccagcgcaagtggagggcgcccgtagggcgagcagctgagagcctaccagg
 agggcacgtgctggagtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcgacccccaaagaca
 catgtgaccaccaccatctctgacatgaggccacctgaggtgctgggcccgggctctaccctgcgagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacaccgagctgtggagaccagaccagcaggagaCagaacct
 tccagaagtgggcagctgtgggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccAtctcccagtcaccgccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggatcatcggagctgtggctgctgtgtgtgtaggaggaagagttcaggtgga (配列番号
 : 5 7 6)

【 0 0 8 0 】

20

B*1403 gctcccactccatgaggtatttctacaccGccgtgtcccggcccggcggggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga
 tagagcaggagggccggaatattgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgggcccgtctcacacctccagTggatgtaggtgctgcgagctggggcc
 ggacggcgccctcctccgcggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagcggagagacc
 tactggagggcacgtgctgaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcgaccccc
 aaagacacatgtgaccaccaccatctctgacatgaggccacctgaggtgctgggcccgggctctaccctgcgga
 agatcacactgacctggcagcgggatggcgaggacaaactcaggacaccgagctgtggagaccagaccagcaggagaC
 agaaccttccagaagtgggcagctgtgggtgctctggagaagagcagagatacacatgccatgtacagcatgaggg
 gctgccgaagccccaccctgagatggg (配列番号 : 5 7 7)

【 0 0 8 1 】

30

B*1404 gctcccactccatgaggCatttctacaccgccgtgtcccggcccggcggggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga
 tagagcaggagggccggaatattgggaccggaacacacagaactgcaagaccaacacacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgggcccgtctcacacctccagtggatgtaggtgctgcgagctggggcc
 ggacggcgccctcctccgcggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcgagcagctgagagcc
 tactggagggcacgtgctgaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号 : 5 7 8)

【 0 0 8 2 】

40

B*1405 atgctggatcatggcgccccgaaccgtcctcctgctgctctcgcgggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccGccgtgtcccggcccggcggggagccccgcttcatctcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgccgagctccgagagaggagccgcgggcgccgtgga tagagca
 ggagggccggaAtattgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctgcggaacc

50

tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctcctccgcggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagagcctacctgg
 agggcacgtgctggagtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcGg (配列番号：
 579)

【0083】

B*140601 gctcccactccatgaggtattttctacaccGccgtgtcccggcccggccgcggggagccccgcttca tctca
 gtgggtacgtggacgacacgcagttcgtagggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtg
 gatagacgaggaggggcccgggAatattgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagacc
 tgcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggg
 ccggacggcgccctcctccgcggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgag
 ctctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagag
 cctacctggagggcacgtgctggagtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：580)

10

【0084】

B*140602 gctcccactccatgaggtattttctacaccGccgtgtcccggcccggccgcggggagccccgcttca tctca
 gtgggtacgtggacgacacgcagttcgtagggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtg
 gatagacgaggaggggcccgggAatattgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagacc
 tgcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtTggctgcgacgtggg
 ccggacggcgccctcctccgcggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgag
 ctctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagag
 cctacctggagggcacgtgctggagtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：581)

20

【0085】

B*15010101 atgcggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgg
 gccggtcccactccatgaggtattttctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgagtg
 ctacgtggacgacaccagttcgtagggttcgacagcgacgccgagtcgaggaaggcggcccgccAatgga tag
 agcaggaggggcccggagtattgggaccggaGacacagatctCcaagaccaacacacagactTaccgagagagcc tgcg
 aacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccgga
 cggcgccctcctccgcgggcattgaccagtcgctacgacggcaaggattacatcgccctgaacgaggacctgagctcct
 ggaccgcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagTggagagcctac
 ctggagggcctgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcggacccccaaa
 gacacatgtgaccaccacccatctctgacctgaggccacctgaggtgctgggccc tgggtcttacctgcggaga
 tcaactgacctggcagcgggattggcgaggacaaactcaggacacCgagctgtggagaccagaccagcaggagataga
 acctccagaagtgggcagctgtggtggcgctctggagaagagcagagatacaca tccatgtacagcatgaggggct
 gccgaagccccctaccctgagatgggagccatcttccagtcacccatccccatcg tgggcatgtgtgctggcctggctg
 tccta...gcagttgtggtcatcgagctgtggtcgctactgtgatgttaggaggaagagCtcaggtgga (配列
 番号：582)

30

【0086】

B*150102 gctcccactccatgaggtattttctacaccgccaatgtcccggcccggccgcggggagccccgcttca tgcga
 gtgggtacgtggacgacaccagttcgtagggttcgacagcgacgccgagtcgaggaaggcggcccgcccgccatg
 gatagacgaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacc
 tgcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggg
 ccggacggcgccctcctccgcgggcattgaccagtcgctacgacggcaaAgat taca tgcctgaacgaggacctgag
 ctctggaccgGcgggacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagTggagag
 cctacctggagggcTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：583)

40

【0087】

B*150103 gctcccactccatgaggtattttctacaccgccaatgtcccggcccggccgcggggagccccgcttca tgcga
 gtgggtacgtggacgacaccagttcgtagggttcgacagcgacgccgagtcgaggaaggcggcccgcccgccatg

50

gatagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcc
 tgcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtgggg
 ccggacgggcgctcctccgcgggcatgaccagtcggctacgacggcaaggattacatcgccctgaaTgaggacctgag
 ctctggaccgcgccggacacggcggctcagatcacccagcgaagtgggagggcgcccgtagggcggagcagtgagag
 cctaccTgagggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcg (

配列番号：584)

【0088】

B*150104 gctcccactccatgaggtatttctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgca
 gtgggtacgtggacgacacgcagttcgtgCggttcgacagcgacgcccgagtcgaggatggcgccccggcgccatg
 gatagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcc
 tgcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtgggg
 ccggacgggcgctcctccgcgggcatgaccagtcggctacgacggcaaggattacatcgccctgaacgaggacctgag
 ctctggaccgcgccggacacggcggctcagatcacccagcgaagtgggagggcgcccgtagggcggagcagtgagag
 cctaccTgagggcctTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcg (

10

配列番号：585)

【0089】

B*1502 atgcggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccg
 gctcccactccatgaggtatttctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgagtggttac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgagtcgaggatggcgccccggcgccatggaTagagca
 ggagggccggagtattgggaccggaacacacagatctCcaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacatcatccagaggatgtaTggctgcgacgtggggccggacggg
 cgctcctccgcgggTatgaccagtCcgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggctcagatcacccagcgaagtgggagggcgcccgtagggcggagcagcTgagagcctaccTg
 agggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcggaacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccTggcttctaccctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggTggTgcttctggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号

20

: 586)

30

【0090】

B*1503 atgcggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccg
 gctcccactccatgaggtatttctacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagtggttac
 gtggacgacacGcagttcgtgaggttcgacagcgacgcccgagtcgaggagaggagcccgggcgccgtggaTagagca
 ggagggccggagtattgggaccgggGacacagatctCcaagaccaacAcacagacttaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggctcagatcacccagcgaagtgggagggcgcccgtagggcggagcagcTgagagcctaccTg
 agggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcggaacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccTggcttctaccctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggTggTgcttctggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号

40

: 587)

【0091】

B*1504 atgcggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccg
 gctcccactccatgaggtatttctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgagtggttac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgagtcgaggatggcgccccggcgccatggaTagagca
 ggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc

50

tgcgcggtactacaaccagagcgaggccgggtctcacacttggcagacgatgtaTggctgcgacgtggggccggacggg
 cgctcctccgcgggcatgaccagtccgctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac
 cgcgggcgacacggcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagTggagagcctacctgg
 agggcctgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatctcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 5 8 8)

10

【 0 0 9 2 】

B*1505 ggctcccactccatgaggtatcttacaccgccatgtcccggcccggccgcggggagccccgcttcatcgag
 tgggctacgtggacgacaccagttcgtagggttcgacagcgacgccgagtcgaggaaggcgccccggcgccatgg
 atagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacct
 gcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggc
 cggacgggcgctcctccgcgggcatgaccagtccgctacgacggcaaggatfacatcgccctgaacgaggacctgagc
 tctggaccgcgggcggacacggcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagTgagagc
 ctacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggaccccc
 caagacacatgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgcg
 gagatcacactgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtggagaccagaccagcaggaga
 tagaaccttccagaagtgggcagctgtggtggtgctctggagaagagcagagatacacatgccatgtacagcatgagg
 ggtgccgaagccccaccctgagatgggagccatctcccagtcaccatccccatcgtgggcatgtgtgctggcctg
 gctgtccta...gcagttgtggtcatcggagctgtggtcgctActgtgtagttaggaggaagagctcaggtgga (配列番号 : 5 8 9)

20

【 0 0 9 3 】

B*1506 ggctcccactccatgaggtatcttacaccgccatgtcccggcccggccgcggggagccccgcttcatcgag
 tgggctacgtggacgacaccagttcgtagggttcgacagcgacgccgagtcgaggaaggcgccccggcgccatgg
 atagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacct
 gcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaTgtTggctgcgacgtggggc
 cggacgggcgctcctccgcggtatgaccagtccgctacgacggcaaggatfacatcgccctgaacgaggacctgagc
 tctggaccgcgggcggacacggcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagTgagagc
 ctacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggaccccc
 caagacacatgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgcg
 gagatcacactgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggaga
 tagaaccttccagaagtgggcagctgtggtggtgctctggagaagagcagagatacacatgccatgtacagcatgagg
 ggtgccgaagccccaccctgagatgggagccatctcccagtcaccatccccatcgtgggcatgtgtgctggcctg
 gctgtccta...gcagttgtggtcatcggagctgtggtcgctActgtgtagttaggaggaagagctcaggtgga (配列番号 : 5 9 0)

30

【 0 0 9 4 】

B*1507 ggctcccactccatgaggtatcttacaccgccatgtcccggcccggccgcggggagccccgcttcatcgag
 tgggctacgtggacgacaccagttcgtagggttcgacagcgacgccgagtcgaggaaggcgccccggcgccatgg
 atagagcaggaggggcccggagtatgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagacct
 gcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggc
 cggacgggcgctcctccgcgggcatgaccagtccgctacgacggcaaggatfacatcgccctgaacgaggacctgagc
 tctggaccgcgggcggacacggcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagTggagagc
 ctacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggaccccc
 caagacacatgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgcg
 gagatcacactgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggaga
 tagaaccttccagaagtgggcagctgtggtggtgctctggagaagagcagagatacacatgccatgtacagcatgagg
 ggtgccgaagccccaccctgagatgggagccatctcccagtcaccatccccatcgtgggcatgtgtgctggcctg

40

50

gctgtccta...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番号: 591)

【0095】

B*1508 atgctgggtcacggcgccccgaaccgtcctcctgctgctcctcgggAgccctggccctgaccgagacctgggccg gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccgctgctcatcgcagtgggctac gtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcggaggaaggcgccccggcgccatgga tagagca ggagggccggagtatgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagagcctgcggaacc tgcgctgctactacaaccagagcggagccgggtctcacaccctccagaggatgtacggctgagcgtggggccggacggg cgctcctccgctgggcatgaccagtcgctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac cgctggcggacacggcggtcagatcacccagcgaagtgggagggcccgctgaggcggagcagTggagagcctaccgg agggcctgtgctggagtggtccgcagataccggagaacgggaaggagacgctgcagcgcgagcccccaagaca catgtgaccaccacccatctctgacctgaggccacctgaggctgctgggcccgggctctaccctgctggagatcac actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtgtggagaccagaccagcaggagatagaacct tccagaagtgggcagctgtggtgggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg aagccccctaccctgagatgggagccatctctccagctccaccatccccatcgtgggcatgtgtgctggcctggctgtcct a...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番号 : 592)

10

【0096】

B*1509 atgctgggtcacggcgccccgaaccgtcctcctgctgctcctcgggAgccctggccctgaccgagacctgggccg gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccgctgctcatctcagtgggctac gtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcggagagaggagccggcgccgtggatagagca ggagggccggagtatgggaccggaacacacagatctGcaagaccaacacacagactTaccgagagagcctgcggaacc tgcgctgctactacaaccagagcggagccgggtctcacaccctccagaggatgtacggctgagcgtggggccggacggg cgctcctccgctgggcatgaccagtcgctacgacggcaaAgatfacatcgccctgaacgaggacctgagctcctggac cgctggcggacacggcggtcagatcacccagcgaagtgggagggcccgctgaggcggagcagTgagagcctaccgg agggcctgtgctggagtggtccgcagataccggagaacgggaaggagacgctgcagcgcgagcccccaagaca catgtgaccaccacccatctctgacctgaggccacctgaggctgctgggcccgggctctaccctgctggagatcac actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtgtggagaccagaccagcaggagatagaacct tccagaagtgggcagctgtggtgggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg aagccccctaccctgagatgggagccatctctccagctccaccatccccatcgtgggcatgtgtgctggcctggctgtcct a...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番号 : 593)

20

30

【0097】

B*1510 atgctgggtcacggcgccccgaaccgtcctcctgctgctcctcgggAgccctggccctgaccgagacctgggccg gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccgctgctcatctcagtgggctac gtggacgacacGcagttcgtgaggttcgacagcgacgccgcgagtcggagagaggagccggcgccgtggatagagca ggagggccggagtatgggaccggaacacacagatctGcaagaccaacAcacagactTaccgagagagcctgcggaacc tgcgctgctactacaaccagagcggagccgggtctcacaccctccagagGatgtacggctgagcgtggggccggacggg cgctcctccgctgggcatgaccagtcgctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac cgctggcggacacggcggtcagatcacccagcgaagtgggagggcccgctgaggcggagcagTgagagcctaccgg agggcctgtgctggagtggtccgcagataccggagaacgggaaggagacgctgcagcgcgagcccccaagaca catgtgaccaccacccatctctgacctgaggccacctgaggctgctgggcccgggctctaccctgctggagatcac actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtgtggagaccagaccagcaggagatagaacct tccagaagtgggcagctgtggtgggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg aagccccctaccctgagatgggagccatctctccagctccaccatccccatcgtgggcatgtgtgctggcctggctgtcct a...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番号 : 594)

40

【0098】

B*151101 atgctgggtcacggcgccccgaaccgtcctcctgctgctcctcgggAgccctggccctgaccgagacctgggccg gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccgctgctcatcgcagtgggct

50

acgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcaggagtaggcgccccgggcccAtggatagag
 caggagggccggagttatgggaccggaacacacagatctacaagaccaacacacagactTaccgagagagccTgcgga
 cctgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtggggccggacg
 ggccctcctccgcgggcatgaccagtcgacctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctgg
 accgcgccggacacggcggctcagatcaccagcgcaagtgaggagggcccgtagggcggagcagTggagagccTacc
 ggagggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgacccccaaaga
 cactgtgacccaccaccatctctgacctgaggccacctgaggtgctgggcccTgggtctTaccctgcggagatc
 acactgacctggcagcgggatggcgaggacaaactcaggacacCgagctTgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtggtggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgc
 cgaagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgTgggcatgtTgctggcctggctgtc
 cta...gcagTgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番
 号: 595)

10

【0099】

B*151102 gctcccactccatgaggtatTctacaccgccaTgtcccggccccggccggggagccccgctTcatcgca
 gtgggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcaggagtaggTccccgggcccTatg
 gatagagcaggagggccggagttatgggaccggaacacacagatctacaagaccaacacacagactTaccgagagagcc
 Tgcggaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtgggg
 ccggacggcgccTcctccgcgggcatgaccagtcgacctacgacggcaaggatfacatcgccctgaacgaggacctgag
 ctctTggaccgcgccggacacggcggctcagatcaccagcgcaagtgaggagggcccgtagggcggagcagTggagag
 cctacctggagggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgagg (配
 列番号: 596)

20

【0100】

B*1512 atgcgggTcacggcgccccgaaccgtcctcctgctgctctcgggagccccTggccctgaccgagacctgggccc
 gctcccactccatgaggtatTctacaccgccaTgtcccggccccggccggggagccccgctTcatcgagTgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgagtcaggagtaggcgccccgggcccTatggaTtagagca
 ggagggccggagttatgggaccgggagacacagatctccaagaccaacacacagactTaccgagagagccTgcggaacc
 Tgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtggggccggacggg
 cgccTcctccgcgggcatgaccagtcgacctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac
 cgccggcggacacggcggctcagatcaccagcgcaagtgaggagggcccgtagggcggagcagTggagagccTaccTgg
 agggcctgtgctggaCgggctccgcagatacctggagaacgggaaggagacgctgcagcgcgacccccaaagaca
 catgtgacccaccaccatctctgacctgaggccacctgaggtgctgggcccTgggtctTaccctgcggagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacaccgagctTgtggagaccagaccagcaggagatagaacct
 TccagaagtgggcagctgtggtggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgTgggcatgtTgctggcctggctgtcct
 a...gcagTgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagctcaggtgga (配列番号
 : 597)

30

【0101】

B*1513 atgcgggTcacggcgccccgaaccgtcctcctgctgctctcgggAgccccTggccctgaccgagacctgggccc
 gctcccactccatgaggtatTctacaccgccaTgtcccggccccggccggggagccccgctTcatcgagTgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgagtcaggagtaggcgccccgggcccTatggaTtagagca
 ggagggccggagttatgggaccggaacacacagatctccaagaccaacacacagactTaccgagagaacctgcggaTcg
 cgctcCgctactacaaccagagcgaggccgggtctcacatcaTccagaggatgtatTggctgcgacgtggggccggacggg
 cgccTcctccgcgggTatgaccagTcgacctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac
 cgccggcggacacggcggctcagatcaccagcgcaagtgaggagggcccgtagggcggagcagTgagagccTaccTgg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgacccccaaagaca
 catgtgacccaccaccatctctgacctgaggccacctgaggtgctgggcccTgggtctTaccctgcggagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacacCgagctTgtggagaccagaccagcaggagatagaacct
 TccagaagtgggcagctgtggtggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgTgggcatgtTgctggcctggctgtcct
 a...gcagTgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagctcaggtgga (配列番号
 : 598)

40

50

: 5 9 8)

【 0 1 0 2 】

B*1514 atgCGGGTcACGGGCCCCGAACCGTcctcctgctgctctCGGGAgccctggccctgaccgagacctgggCCg
 gctcccactccatgaggatattctacaccGCCatgtcccggccCGGCCGgggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacGCCGCGagttccgaggaTggcGccccgggCGccatggaTagagca
 ggaggggCCggagTatgggaccGGgagacacagatctccaagaccaacacacagactTaccgagagagcctgcggaacc
 TgcgCGGctactacaaccagagCGagggccgggtctcacaccctccagaggaTgtacggctgcgacgtggggccggacggg
 CGcctcctccgCGggcatgaccagtccgctacgacggcaaggatTacaTcgcccTgaacgaggacctgagctcctggac
 CGCGGCGgacacggCGGctcagatcaccagCGcaagtgggagggCGccctgaggCGgagcagTggagagcctaccTgg
 agggcctgtgCGTggagTcGctccgcagataccTggagaacGGgaaggagacGctgcagCGCGggacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggccaccctgaggtgctgggcccTgggtctctaccctgcgggagTcac
 actgacctggcagCGggaTggcGaggaccaaactcaggacacCGagctTgtggagaccagaccagcaggagatagaacct
 TccagaagTgggCagctgtggtggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgtgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcggagctgtggTcgctactgtgagTgtgtaggaggaagagCtCaggtgga (配列番号
 : 5 9 9)

10

【 0 1 0 3 】

B*1515 atgCGGGTcACGGGCCCCGAACCGTcctcctgctgctctCGGGAgccctggccctgaccgagacctgggCCg
 gctcccactccatgaggatattctacaccGCCatgtcccggccCGGCCGgggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacGCCGCGagttccgaggaTggcGccccgggCGccatggaTagagca
 ggaggggCCggagTatgggaccGgaacacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
 TgcgCGGctactacaaccagagCGagggccgggtctcacaccctccagaggaTgtacggctgcgacgtggggccggacggg
 CGcctcctccgCGggcatgaccagtccgctacgacggcaaggatTacaTcgcccTgaacgaggacctgagctcctggac
 CGCGGCGgacacggCGGctcagatcaccagCGcaagtgggagggCGccctgaggCGgagcagTggagagcctaccTgg
 agggcctgtgCGTggagTggctccgcagataccTggagaacGGgaaggagacGctgcagCGCGggacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggccaccctgaggtgctgggcccTgggtctctaccctgcgggagTcac
 actgacctggcagCGggaTggcGaggaccaaactcaggacacCGagctTgtggagaccagaccagcaggagatagaacct
 TccagaagTgggCagctgtggtggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgtgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcggagctgtggTcgctactgtgagTgtgtaggaggaagagCtCaggtgga (配列番号
 : 6 0 0)

20

30

【 0 1 0 4 】

B*1516 atgCGGGTcACGGGCCCCGAACCGTcctcctgctgctctCGGGAgccctggccctgaccgagacctgggCCg
 gctcccactTcatgaggatattctacaccGCCatgtcccggccCGGCCGgggagccccgcttcatcgcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacGCCGCGagttccgaggaTggcGccccgggCGccatggaTagagca
 ggaggggCCggagTatgggaccGGgagacacggaacatgaaggcctccgCGcagactTaccgagagaacctgcggaTcg
 CGctccgctactacaaccagagCGagggccgggtctcacactTggcagaggaTgtaTggctgcgacctggggccggacggg
 CGcctcctccgCGggcatgaccagtccgctacgacggcaaggatTacaTcgcccTgaacgaggacctgagctcctggac
 CGCGGCGgacacggCGGctcagatcaccagCGcaagtgggagggCGccctgaggCGgagcagctgagagcctaccTgg
 agggcctgtgCGTggagTggctccgcagataccTggagaacGGgaaggagacGctgcagCGCGggacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggccaccctgaggtgctgggcccTgggtctctaccctgcgggagTcac
 actgacctggcagCGggaTggcGaggaccaaactcaggacaccgagctTgtggagaccagaccagcaggagatagaacct
 TccagaagTgggCagctgtggtggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgtgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcggagctgtggTcgctactgtgagTgtgtaggaggaagagCtCaggtgga (配列番号
 : 6 0 1)

40

【 0 1 0 5 】

B*151701 atgCGGGTcACGGGCCCCGAACCGTcctcctgctgctctCGGGAgccctggccctgaccgagacctgggCCg
 CGGctcccactccatgaggatattctacaccGCCatgtcccggccCGGCCGgggagccccgcttcatcgcagtgggct
 acgtggacgacaccagttcgtgaggttcgacagcgacGCCGCGagttccgaggaTggcGccccgggCGccatggaTagag

50

caggaggggcccggagtattgggaccgggagacacggaacatgaaggccctccgcGcagacttaccgagagaacctgcggat
 cgcgctccgctactacaaccagagcagggccgggtctcacaccctccagaggatgtacggctgcgacgtggggccggacg
 ggcgctcctccgcggttaccaccagGacgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctgg
 accgcgccggacacggcggctcagatcaccagcgaagtgggagggcccgctgaggcggagcagctgagagcctacct
 ggagggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaaga
 cacatgtgaccaccaccatctctgaccatgaggccacctgaggctgctgggcccctgggcttctacctgcgagatc
 acactgacctggcagcgggatggcgaggaccaaactcaggacacGgagcttgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtggtggcttctggagaagagcagagatcacatgccatgtacagcatgaggggctgc
 cgaagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtc
 cta...gcagttgtggtcatcggagctgtggtcgctActgtgatgtgtaggaggaagagCtcaggtgga (配列番
 号: 602)

10

【0106】

B*1518 atgcggggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgccaatgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
 gtggacgacacGcagttcgtgaggttcgacagcagcgcgcgagctccgagagaggagcccgggcgccgtggaatagagca
 ggaggggcccggagtattgggaccggaacacacagatctGcaagaccaacAcacagacttaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcagggccgggtctcacaccctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatgaccagtCcgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggctcagatcaccagcgaagtgggagggcccgctgaggcggagcagctgagagcctacctgg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggctgctgggcccctgggcttctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacacGgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggtggcttctggagaagagcagagatcacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番号
 : 603)

20

【0107】

B*1519 atgcggggtcacggcgccccgaaccgtcctcctgctgctctcgggagccctggccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcagcgcgcgagctccgaggaaggcgcccgggcccagtggaatagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcagggccgggtctcacaccctccagaggatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatgaccagtccgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggctcagatcaccagcgaagtgggagggcccgctgaggcggagcagctggagagcctacctgg
 agggcctgtgctggacgggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggctgctgggcccctgggcttctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggtggcttctggagaagagcagagatcacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagctcaggtgga (配列番号
 : 604)

30

40

【0108】

B*1520 atgcggggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcagcgcgcgagctccgaggaaggcgcccgggcccagtggaatagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcagggccgggtctcacatcatccagaggatgtatggctgcgacctggggcccggacggg
 cgctcctccgcgggcatgaccagtccgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggctcagatcaccagcgaagtgggagggcccgctgtggcggagcagctgagagcctacctgg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca

50

cacgtgaccaccaccGtctctgaccatgaggccaccctgaggtgctgggccc tgggcttctaccc tgcggagatcac
 actgacc tggcagcgggatggcgaggaccaaactcaggacac t gagct t g t ggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgg tgg tgcct tctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc t caccctgagatgggagccatct tcccagtcacccatccccatcgtgggcat t g t gctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 6 0 5)

【 0 1 0 9 】

B*1521 atgcggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacaccgccatgtcccggcccggccgccccgagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggt t cgacagcgacgcccgag tccgagga tggcgccccggcgccatgga tagagca 10
 ggaggggcccggagtattgggaccggaacacacagatctGcaagaccaacacacagact t accgagagagcctgcggaacc
 tgcgccc t actacaaccagagcagggccgggtctcacatcatccagaggatgtaTggctgcgacgtggggccggacggg
 cgctcctccgcccTatgaccagtCcgctacgacggcaaggat taca tgccttgaacgaggacctgagctcctggac
 cgccgggacacggcggctcagatcaccagcgaagtgggagggcccg t gaggcggagcagcTgagagcc tacc tgg
 agggcctgtgctggag tggctccgcagat acc tggagaacgggaaggagacgctgcagcgcgcccacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccaccctgaggtgctgggccc tgggcttctaccc tgcggagatcac
 actgacc tggcagcgggatggcgaggaccaaactcaggacacCgagct t g t ggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgg tgg tgcct tctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc t caccctgagatgggagccatct tcccagtcacccatccccatcgtgggcat t g t gctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号 20
 : 6 0 6)

【 0 1 1 0 】

B*1523 atgcggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacaccgccatgtcccggcccggccgccccgagccccgcttcatctcagtgggctac
 gtggacgacacgcagttcgtgaggt t cgacagcgacgcccgag tccgagagaggagccgcccggcctgga tagagca
 ggaggggcccggagtattgggaccggaacacacagatctGcaagaccaacAcacagact t accgagagaacctgcgga tgc
 cgctcCgctactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcccgatgaccagtCcgctacgacggcaaggat taca tgccttgaacgaggacctgagctcctggac
 cgccgggacacggcggctcagatcaccagcgaagtgggagggcccg t gaggcggagcagcTgagagcc tacc tgg
 agggcctgtgctggag tggctccgcagat acc tggagaacgggaaggagacgctgcagcgcgcccacccccaaagaca 30
 catgtgaccaccaccatctctgaccatgaggccaccctgaggtgctgggccc tgggcttctaccc tgcggagatcac
 actgacc tggcagcgggatggcgaggaccaaactcaggacacCgagct t g t ggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgg tgg tgcct tctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc t caccctgagatgggagccatct tcccagtcacccatccccatcgtgggcat t g t gctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 6 0 7)

【 0 1 1 1 】

B*1524 gctcccactccatgaggtat t tctacaccgccatgtcccggcccggccgccccgagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggt t cgacagcgacgcccgag tccgagga tggcgccccggcgccatgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagact t accgagagaacctg 40
 cggatcgCgctcCgctactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcccgatgaccagtCcgctacgacggcaaggat taca tgccttgaacgaggacctgagct
 cctggaccgcGcggacacggcggctcagatcaccagcgaagtgggagggcccg t gaggcggagcagTggagagcc
 tacctggagggcTgtgctggag tggctccgcagat acc tggagaacgggaaggagacgctgcagcgcGg (配
 列番号 : 6 0 8)

【 0 1 1 2 】

B*1525 atgcggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacaccgccatgtcccggcccggccgccccgagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggt t cgacagcgacgcccgag tccgagga tggcgccccggcgccatgga tagagca
 ggaggggcccggagtattgggaccgggacacacagatctCcaagaccaacacacagact t accgagagagcctgcggaacc 50

tgcgcggtactacaaccagagcgaggccgggtctcacatcatccagaggatgtaTggctgcgacgtggggccggacggg
 cgctccctccgcggtTatgaccagtCcgctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagagcctacctgg
 agggcctgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccatctctccagctccacatccccatcgtgggcatgtgtgctggcctggctgtctt
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 6 0 9)

10

【 0 1 1 3 】

B*1527 gaggatattctacaccgcatgtcccggcccggccggggagccccgcttcatcgcagttggctacgtggac
 gacaccagttcgtgaggttcgacagcgacgccgagctccgaggatggcgccccggcgccatggaatagagcaggaggg
 gccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacctgcgcg
 gctactacaaccagagcgaggccgggtctcacacctccagaggatgtTggctgcgacgtggggccggacgggcgctc
 ctccgcgggcatgaccagttccgctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggaccgcggc
 ggacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagTggagagcctacctggagggcc
 Tgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgc (配列番号 : 6 1 0)

【 0 1 1 4 】

B*1528 atgcggttcacggcgccccgaaccgtcctcctgctgctctcgggagccccggccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgcatgtcccggcccggccggggagccccgcttcatcgcagttggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgagctccgaggatggcgccccggcgccatggaatagagca
 ggagggccggagtattgggaccgggagaTacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtggggccggacggg
 cgctccctccgcgggcatgaccagttccgctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagtgagagcctacctgg
 agggcctgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatggg (配列番号 : 6 1 1)

20

30

【 0 1 1 5 】

B*1529 atgcggttcacggcgccccgaaccgtcctcctgctgctctcgggAgccccggccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgcatgtcccggcccggccggggagccccgcttcatctcagttggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgccgagctccgagagaggagcccgggcgccgtggaatagagca
 ggagggccggagtattgggaccggaacacacagatctTcaagaccaacAcacagacttaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctccctccgcgggcatgaccagttCcgctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggac
 cgcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagagcctacctgg
 agggcctgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacacCgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatggg (配列番号 : 6 1 2)

40

【 0 1 1 6 】

B*1530 gaggatattctacaccgcatgtcccggcccggccggggagccccgcttcatcgcagttggctacgtggac
 gacaccagttcgtgaggttcgacagcgacgccgagctccgaggatggcgccccggcgccatggaatagagcaggaggg
 gccggagtattgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagagcctgcggaacctgcgcg
 gctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtggggccggacgggcgctc
 ctccgcgggcatAaccagtagcctacgacggcaaggatfacatcgccctgaacgaggacctgagctcctggaccgcGgc

50

ggacacggcggctcagatcaccagcgcaagtgggagggcgcccgTgagggagcagTggagagcctacctggagggcc
 Tgtgctggagtggtccgcagatcctggagaacgggaaggagacgctgcagcgc (配列番号: 613)
 【0117】

B*1531 gaggtatttctacaccgcatgtcccggcccggccgccccgcttcatcgcagtggttacgtggac
 gacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggCgccccgggcccagtgatagagcaggagg
 gccggagtattgggaccggaacacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacctgcgcg
 gctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggggcctc
 ctccgcccTatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgagctcctggaccgccc
 ggacacggcggctcagatcaccagcgcaagtgggagggcgcccgTggcggagcagTgagagcctacctggagggcc
 TgtgctggagtggtccgcagatcctggagaacgggaaggagacgctgcagcgcgcGg (配列番号: 614)
)
 【0118】

10

B*1532 gctcccactccatgaggtatttctacaccgcatgtcccggcccggccgccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcgccccgggcccagtgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggaTgtCtggctgcgacgtggggcc
 ggacggggcctcctccgcccgatgaccagtcggcctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgcccggacacggcggctcagatcaccagcgcaagtgggagggcgcccgTgagggcggagcagTggagagcc
 tacctggagggccTgtgctggagtggtccgcagatcctggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号: 615)

20

【0119】
 B*1533 gctcccactccatgaggtatttctacaccgcatgtcccggcccggccgccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcgccccgggcccagtgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggaTgtacggctgcgacgtggggcc
 ggacggggcctcctccgcccgatgaccagtcggcctacgacggcaaggattacatcgccccgaacgaggacctgcgct
 cctggaccgcccgggacaAgggcggctcagatcaccagcgcaagtgggagggcgcccgTgagggcggagcagTggagagcc
 tacctggagggccTgtgctggagtggtccgcagatcctggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号: 616)

30

【0120】
 B*1534 gctcccactccatgaggtatttctacaccgcatgtcccggcccggccgccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcgccccgggcccagtgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggaTgtacggctgcgacCtggggcc
 ggacggggcctcctccgcccgatgaccagtcggcctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgCgcccggacacggcggctcagatcaccagcgcaagtgggagggcgcccgTgagggcggagcagTggagagcc
 tacctggagggccTgtgctggagtggtccgcagatcctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号: 617)

【0121】
 B*1535 gctcccactccatgaggtatttctacaccgcatgtcccggcccggccgccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcgccccgggcccagtgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagaCGatgtacggctgcgacgtggggcc
 ggacggggcctcctccgcccgatgaccagtcggcctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgCgcccggacacggcggctcagatcaccagcgcaagtgggagggcgcccgTgagggcggagcagTggagagcc
 tacctggagggccTgtgctggagtggtccgcagatcctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号: 618)

40

【0122】
 B*1536 gctcccactccatgaggtatttctacaccgcatgtcccggcccggccgccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcgccccgggcccagtgga

50

tagagcaggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagact taccgagagaacctg
 cgCaccgcgctccgctactacaaccagagcggaggccgggtctcacatcatccagaggatgtatggctgcgacgtggggcc
 ggacgggcccctcctccgcccGatgaccagtCcgccctacgacggcaaggat taca tcccc tgaacgaggacctgagct
 cctggaccgcccggacacggcggctcagatcaccagcgaagtgggagggcggcccgtgaggcggagcagcTgagagcc
 tacctggagggcCTgtgctgaggatggctccgcagat acc tggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：619)

【0123】

B*1537 gctcccactccatgaggat t tctacaccgcca t g t cccggcccggccgcccgggagccccgct tcatctcag t
 gggctacgtggacgacacGcag t cgtgagg t tgcacagcgcgcccgcgag t ccgagagaggagccgcccggcgcctgga
 tagagcaggaggggcccggagtat tgggaccggaacacacagatctGcaagaccaacacacagactTaccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcccga t gaccagtacgccc t acgacggcaaggat taca tcccc tgaacgaggacctgAgct
 cctggaccgcccggacacggcggctcagatcaccagcgaagtgggagggcggcccgtgaggcggagcagcTgagagcc
 tacctggagggcTgtgctgaggatggctccgcagaCacc tggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号：620)

10

【0124】

B*1538 gctcccactccatgaggat t tctacaccgcca t g t cccggcccggccgcccgggagccccgct tcatcgcag t
 gggctacgtggacgacacccag t cgtgagg t tgcacagcgcgcccgcgag t ccgagga tggcgccccgggcccga t gga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagact taccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcccga t gaccagtccgccc t acgacggcaaggat taca tcccc tgaacgaggacctgagct
 cctggaccgcccggacacggcggctcagatcaccagcgaagtgggagggcggcccgtgaggcggagcagcTggagagcc
 tacctggagggcctgtgctgaggatggctccgcagaCacc tggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：621)

20

【0125】

B*1539 gctcccactccatgaggat t tctacaccgcca t g t cccggcccggccgcccgggagccccgct tcatcGcag t
 gggctacgtggacgacacccag t cgtgagg t tgcacagcgcgcccgcgag t ccgagga tggcgccccgggcccga t gga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctCcaagaccaacAcacagact taccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcccga t gaccagtCcgccctacgacggcaaggat taca tcccc tgaacgaggacctgagct
 cctggaccgcccggacacggcggctcagatcaccagcgaagtgggagggcggcccgtgaggcggagcagcTgagagcc
 tacctggagggcctgtgctgaggatggctccgcagaCacc tggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：622)

30

【0126】

B*1540 gctcccactccatgaggat t tctacaccgcca t g t cccggcccggccgcccgggagccccgct tcatcGcag t
 gggctacgtggacgacacccag t cgtgagg t tgcacagcgcgcccgcgag t ccgagga tggcgccccgggcccga t gga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctCcaagaccaacAcacagact taccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcccga t gaccagtCcgccctacgacggcaaggat taca tcccc tgaacgaggacctgagct
 cctggaccgcccggacacggcggctcagatcaccagcgaagtgggagggcggcccgtgaggcggagcagcTgagagcc
 tacctggagggcagtgctgaggatggctccgcaga t acc tggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：623)

40

【0127】

B*1542 gctcccactccatgaggat t tctacaccgcca t g t cccggcccggccgcccgggagccccgct tcatcgcag t
 gggctacgtggacgacacccag t cgtgagg t tgcacagcgcgcccgcgag t ccgagga tggcgccccgggcccga t gga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctCcaagaccaacAcacagactTaccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacact tggcagaCgatgtTggctgcgacCTggggcc
 ggacgggcccctcctccgcccga t aaccagt tAgcctacgacggcaaggat taca tcccc tgaacgaggacctgagct
 cctggaccgcccggacacggcggctcagatcaccagcgaagtgggagggcggcccgtgaggcggagcagcTgagagcc
 tacctggagggcaCgtgctgaggatggctccgcaga t acc tggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：623)

50

列番号：624)

【0128】

B*1543 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagtcgaggaaggagccgccccggcgcca
tagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagGacctg
cggaccctgctccgctactacaaccagagcgaggccgggtctcacaccctccagaggaagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgccctgaacgaggacctgagct
cctggaccgcgggacacggcggctcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTggagagcc
tacctggagggccTgtgctgaggtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

列番号：625)

【0129】

B*1544 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagtcgaggaaggagccgccccggcgcca
tagagcaggaggggcccggagtatgggaccggaacacacagatctGcaagaccaacacacagacttaccgagagacctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcattccagaggaagtattggctgcgacgtggggcc
ggacgggcccctcctccgcgggatgaccagtcggcctacgacggcaaggattacatcgccctgaacgaggacctgagct
cctggaccgGgcgacacggcggctcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTgagagcc
tacctggagggcaCgtgctgaggtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

列番号：626)

【0130】

B*1545 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagtcgaggaaggagccgccccggcgcca
tagagcaggaggggcccggagtatgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagacctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacaccctccagagcaagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggatgaccagtcggcctacgacggcaaggattacatcgccctgaacgaggacctgagct
cctggaccgGgcgacacggcggctcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTggagagcc
tacctggagggccTgtgctgaggtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

列番号：627)

【0131】

B*1546 atgcggggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcGcagtgggctac
gtggacgacacccagttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgccccggcgccaAtgga
tagagcaggaggggcccggagtatgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagacctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacaccctccagaggaagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggatgaccagtcggcctacgacggcaaggattacatcgccctgaacgaggacctgagct
cctggaccgGgcgacacggcggctcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTggagagcc
tacctggagggccTgtgctgaggtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
列番号：628)

【0132】

B*1547 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagtcgaggaaggagccgccccggcgcca
tagagcaggaggggcccggagtatgggaccgggaGacacagatctCcaagaccaacAcacagactTaccgagagacctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacaccctccagagGaagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggatgaccagtcggcctacgacggcaaggattacatcgccctgaacgaggacctgAgct
cctggaccgGgcgacacggcggctcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagcggagagcc
tacctggagggcgagtgctgaggtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

列番号：629)

【0133】

B*1548 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagtcgaggaaggagccgccccggcgcca
tagagcaggaggggcccggagtatgggaccgggaGacacagatctCcaagaccaacAcacagactTaccgagagacctg

10

20

30

40

50

tagagcaggagggccggagtattgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagagcctg
 cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcaAaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgaagtgggagggcggcccgtgtggcggagcagctgagaAcc
 tacctggagggcCTgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号: 630)

【0134】

B*1549 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtgga
 tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacGgacttaccgagagagcctg
 cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcatgaccagtcgcccacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgaagtgggagggcggcccgtgaggcggagcagcggagagcc
 tacctggagggcgagtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号: 631)

10

【0135】

B*1550 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagtcgaggaTggcgccccggcgccaTgga
 tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcatgaccagtcgcccacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgaagtgggagggcggcccgtgaggcggagcagTggagagcc
 tacctggagggcaCgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号: 632)

20

【0136】

B*1551 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtgga
 tagagcaggagggccggagtattgggaccggaacacacagatctGcaagaccaacacacagacttaccgagagagcctg
 cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcatgaccagtcgcccacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgaagtgggagggcggcccgtTggcggagcaggaCagagcc
 tacctggagggcCTgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号: 633)

30

【0137】

B*1552 atgcggtcacggcggcccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtggaTagagca
 ggagggccggagtattgggaccggaacacacagatctGcaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgccctcctccgcgggcatgaccagtcgcccacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac
 cgggcggaacggcggtcagatcacccagcgaagtgggagggcggcccgtTggcggagcagcTgagagcctacctgg
 agggcagtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcGg (配列番号:
 634)

40

【0138】

B*1553 atgcggtcacggcggcccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccgtgggctac
 gtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccAtggaTagagca
 ggagggccggagtattgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggccggacggg
 cgccctcctccgcgggcatgaccagtcgcccacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac
 cgggcggaacggcggtcagatcacccagcgaagtgggagggcggcccgtTggcggagcagcTgagagcctacctgg

50

cgcgccggacacggcggctcagatcaccagcgcaagtgggagcgcccgtagggcggagcagTggagagcctacctgg
agggccTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcGg (配列番号:
635)

【0139】

B*1554 atgcggtcacggcgccccgaaccgtcctcctgctgctcctcgggAgccctggccctgaccgagacctgggccg
gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccgccccgcttcatctcagtgggctac
gtggacgacacGcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccggcgccgtgga tagagca
ggagggcccgagtatgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
tgcgcggctactacaaccagagcgaggccgggtctcacacctccagaggaatgtacggctgcgacgtggggccggacggg
cgctcctccgcgggcatgaccagtcgctacgacggcaaggatatactgccccgaacgaggacctgagctcctggac
cgcgccggacacggcggctcagatcaccagcgcaagtgggagcgcccgtagggcggagcagTggagagcctacctgg
agggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
catgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgaggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacacGgagctgtggagaccagaccagcaggagatagaacct
tccagaagtgggcagctgtggtggctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
aagccccaccctgagatgggagccatctcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagttgtggtcatcggagctgtggtcgctactgtgagtgttaggaggaagagCtcaggtgga (配列番号
:636)

10

【0140】

B*1555 atgcggtcacggcgccccgaaccgtcctcctgctgctcctcgggAgccctggccctgaccgagacctgggccg
gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccgccccgcttcatcgcagtgggctac
gtggacgacacccagttcgtgaggttcgacagcgacgccgcgagtcgaggaatggcgccccggcgccatgga tagagca
ggagggcccgagtatgggaccggaacacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
tgcgcggctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
cgctcctccgcgggatgaccagtcgctacgacggcaaggatatactgccccgaacgaggacctgagctcctggac
cgcgccggacacggcggctcagatcaccagcgcaagtgggagcgcccgtagggcggagcagTgagagcctacctgg
agggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
catgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgaggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacacGgagctgtggagaccagaccagcaggagatagaacct
tccagaagtgggcagctgtggtggctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
aagccccaccctgagatgggagccatctcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagttgtggtcatcggagctgtggtcgctactgtgagtgttaggaggaagagCtcaggtgga (配列番号
:637)

20

30

【0141】

B*1556 gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccgccccgcttcatcgcagtg
ggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgcgagtcgaggaatggcgccccggcgccatgga
tagagcaggagggccggagtatgggaccgggaGacacagatctTcaagaccaacacacagactTaccgagagagcctg
cggaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacggcgccctcctccgcgggcatgaccagtcgctacgacggcaaggatatactgccccgaacgaggacctgagct
cctggaccgcGcgggacacggcggctcagatcaccagcgcaagtgggagcgcccgtagggcggagcagTggagagcc
tacctggagggcctTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcGg (配
列番号:638)

40

【0142】

B*1557 gggtcacggcgccccgaaccgtcctcctgctgctcctcgggagccctggccctgaccgagacctgggccggctc
ccactccatgaggtatcttacaccgccaatgtcccggcccggccgccccgcttcatcgcagtgggctacgtgg
acgacacccagttcgtgaggttcgacagcgacgccgcgagtcgaggaatggcgccccggcgccatgga tagagcaggag
gggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagTgaAccctgcggaacctgcg
cggctactacaaccagagcgaggccgggtctcacacctccagaggaatgtacggctgcgacgtggggccggacgggccc
tctccgcgggcatgaccagtcgctacgacggcaaggatatactgccccgaacgaggacctgagctcctggaccgcg
gcgggacacggcggctcagatcaccagcgcaagtgggagcgcccgtagggcggagcagTggagagcctacctggaggg

50

ccTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgcGg (配列番号: 6 3 9)

【 0 1 4 3 】

B*1558 atgctgggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccctggccctgaccgagacctgggccg gctcccactccatgaggtat t tctacaccgccaatgtcccggcccggccgccccgagccccgcttcatcgcagtgggtac gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaaggcgccccggcgccatgga tagagca ggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacctgcggaacc tgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaatgtacggctgcgacgtggggccggacggg cgctcctccgcgggcataaccagtTcgctacgacggcaaggat taca tgcctgaacgaggacctgagctcctggac cgcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgagggcgagcagTggagagacctacctgg agggccTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配列番号: 6 4 0)

10

【 0 1 4 4 】

B*1560 gctcccactccatgaggtat t tctacaccgccaatgtcccggcccggccgccccgagccccgcttcatcgcagt gggctacgtggacgacaccagttcgtgaggttcAacagcgacgcccgcgagtcgaggaaggcgccccggcgccatgga tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacctg cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaatgtacggctgcgacgtggggcc ggacggcgctcctccgcgggcatgaccagtcgctacgacggcaaggat taca tgcctgaacgaggacctgagct cctggaccgcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgagggcgagcagTggagagcc tacctggagggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcgg (配 列番号: 6 4 1)

20

【 0 1 4 5 】

B*1561 gctcccactccatgaggtat t tctacaccgccaatgtcccggcccggccgccccgagccccgcttcatctcagt gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgcgagtcgagagaggagccgccccgctgga tagagcaggagggccggagtattgggaccgggagacacagatctCcaagaccaacAcacagactgaccgagagacctg cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc ggacggcgctcctccgcgggcatgaccagtcgctacgacggcaaggat taca tgcctgaacgaggacctgAgct cctggaccgcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgagggcgagcagTgagagcc tacctggagggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配 列番号: 6 4 2)

30

【 0 1 4 6 】

B*1562 gctcccactccatgaggtat t tctacaccgccaatgtcccggcccggccgccccgagccccgcttcatctcagt gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgcgagtcgagagaggagccgccccgctgga tagagcaggagggccggagtattgggaccgggagacacagatctCcaagaccaacAcacagactTaccgagagacctg cggaacctgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagaggaatgtaTggctgcgacCtggggcc Cgacggcgctcctccgcgggcatgaccagtcgctacgacggcaaggat taca tgcctgaacgaggacctgAgct cctggaccgGcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgagggcgagcagTgagagcc tacctggagggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配 列番号: 6 4 3)

40

【 0 1 4 7 】

B*1563 gctcccactccatgaggtat t tctacaccgccaatgtcccggcccggccgccccgagccccgcttcatcgcagt gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaaggcgccccgctgga tagagcaggagggccggagtattgggaccgggagacacagatctCcaagaccaacacacagactTaccgagagacctg cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc ggacggcgctcctccgcgggcatgaccagtcgctacgacggcaaggat taca tgcctgaacgaggacctgagct cctggaccgGcgccggacacggcggtcagatcaccagcgcaagtgggagggcccgctgagggcgagcagTggagagcc tacctggagggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配 列番号: 6 4 4)

50

【 0 1 4 8 】

B*1564 gctcccactccatgaggtat t tctacaccgccaatgtcccggcccggccgccccgagccccgcttcatctcagt

gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggagggccggagtaattggaccggaacacacagatactCcaagaccaacAcacagactTaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgacgctggggcc
 ggacggcgccctctccgcgggcatgaccagtcgacctacgacggcaaggattacatcgccccgaacgaggacctgAgct
 cctggaccgcgccggacacggcggtcagatcacccagcgaagtgggagggcgccccgtgagggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号: 645)

【0149】

B*1565 gctcccactccatgaggtatttctacaccgccAtgtcccggccccggccgccccgagccccgcttcatcGcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggaaggcggccccggcgccatgga
 tagagcaggagggccggagtaattggaccggaGacacagatactCcaagaccaacAcacagactTaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgacgctggggcc
 ggacggcgccctctccgcgggcatgaccagtcgacctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgGcgggacacggcggtcagatcacccagcgaagtgggagggcgccccgtgagggcggagcagcggagagcc
 tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号: 646)

【0150】

B*1566 atgccccggtcacggcgccccgaaccgtcctcctgctgctctcgggAgccccggccccgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaatgtcccggccccggccgccccgagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggaaggcggccccggcgccatgga tagagca
 ggagggccggagtaattggaccgggagacacagatactGcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaatgtacggctgacgctggggccggacggg
 cgccctctccgcgggcatgaccagtcgacctacgacggcaaggattacatcgccccgaacgaggacctgagctcctggac
 cgcgccggacacggcggtcagatcacccagcgaagtgggagggcgccccgtgagggcggagcagTggagagccacctgg
 agggctgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgaggagatcac
 actgacctggcagcggaaggcaggacaaactcaggacacCgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggacgctgtggtggtgctctggagaagagcagagatacacatgccaatgacagatgaggggctgccg
 aagccccctaccctgagatgggagccatctcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtatgttaggaggaagagCtcaggtgga (配列番号
 : 647)

【0151】

B*1567 gctcccacttcatgaggtatttctacaccgccaatgtcccggccccggccgccccgagccccgcttcatcgcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgaggaaggcggccccggcgccatgga
 tagagcaggagggccggagtaattggaccgggagacacggaacatgaaggctccgcgacagcttaccgagagaacctg
 cggatcgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagaggaatgtatggctgacgctggggcc
 ggacggcgccctctccgcgggcatgaccagtcgacctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgcgccggacacggcggtcagatcacccagcAcaagtgggagggcgccccgtgagggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号: 648)

【0152】

B*1568 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccgccccgagccccgcttcatctcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgccccgctgga
 tagagcaggagggccggagtaattggaccggaGacacagatactCcaagaccaacacacagactTaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcagatgtacggctgacgctggggcc
 ggacggcgccctctccgcgggcatgaccagtcgacctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgcgccggacacggcggtcagatcacccagcgaagtgggagggcgccccgtgagggcggagcagTggagagcc
 tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgggaccccc
 aaagacacatgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgagg
 agatcacactgacctggcagcggaaggcaggacaaactcaggacacCgagctgtggagaccagaccagcaggagat

10

20

30

40

50

agaacctccagaagtgggcagctgtgggggtgccttctggagaagagcagagatacacatgccatgtacagcatgaggg
gctgccgaagccccctcaccctgagatggg (配列番号: 649)

【0153】

B*1569 gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgcggggagccccgcttcatctcag
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgccccgctgga
tagagcaggaggggccccggagtttgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgagct
cctggaccgccccggacacggcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTgagaAcc
tacctggagggcaCgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
列番号: 650)

10

【0154】

B*1570 gctcccactccatgaggtatttctacaccgccAtgtcccggccccggccgcggggagccccgcttcatcgcag
gggtacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggaaggcgcccCggggcgccAtgga
tagagcaggaggggccccggagtttgggaccgggaGacacagatctCcaagaccaacAcacagactgaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgagct
cctggaccgGgccccggacacggcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTggagagcc
tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
列番号: 651)

20

【0155】

B*1571 gctcccactccatgaggtatttCcacacctcgtgtcccggccccggccgcggggagccccgcttcatcgcag
gggtacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggaaggcgccccggggcgccAtgga
tagagcaggaggggccccggagtttgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccccgaacgaggacctgagct
cctggaccgccccggacacggcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTggagagcc
tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGgaccccc
aaagacacatgtgaccaccaccacctctctgaccatgaggccacctgaggtgctggggcccgggcttctacctgcg
agatcacactgacctggcagcgggatggcgaggaccaaacctcaggacacCgagctgtggagaccagaccagcaggagat
agaacctccagaagtgggcagctgtgggggtgccttctggagaagagcagagatacacatgccatgtacagcatgaggg
gctgccgaagccccctcaccctgagatggg (配列番号: 652)

30

【0156】

B*1572 gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgcggggagccccgcttcatctcag
gggtacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgccccgctgga
tagagcaggaggggccccggagtttgggaccggaaacacacagatctGcaagaccaacacacagacttaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgagct
cctggaccgccccggacacggcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTgagagcc
tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGgaccccc
aaagacacaTgtgaccaccaccacctctctgaccatgaggccacctgaggtgctggggcccgggcttctacctgcg
agatcacactgacctggcagcgggatggcgaggaccaaacctcaggacacCgagctgtggagaccagaccagcaggagat
agaacctccagaagtgggcagctgtgggggtgccttctggagaagagcagagatacacatgccatgtacagcatgaggg
gctgccgaagccccctcaccctgagatggg (配列番号: 653)

40

【0157】

B*1573 gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgcggggagccccgcttcatcgcag
gggtacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggaaggcgccccggggcgccatgga
tagagcaggaggggccccggagtttgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgagct
cctggaccgccccggacacggcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagTgagagcc
tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGgaccccc
aaagacacaTgtgaccaccaccacctctctgaccatgaggccacctgaggtgctggggcccgggcttctacctgcg
agatcacactgacctggcagcgggatggcgaggaccaaacctcaggacacCgagctgtggagaccagaccagcaggagat
agaacctccagaagtgggcagctgtgggggtgccttctggagaagagcagagatacacatgccatgtacagcatgaggg
gctgccgaagccccctcaccctgagatggg (配列番号: 653)

50

cctggaccgcgccggacacggcggctcagatcaccagcgcaagtgggagggcccgtagggcggagcagTggagagcc
tacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
列番号: 654)

【0158】

B*1574 gctcccactccatgaggtatcttacaccgccaagtcccggcccggccgcggggagccccgcttcatctcagt
gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
tagagcaggagggccggagtattgggaccgggagacacagatctccaagaTcaacacacagacttaccgagagaccg
cggaaacctgcgcggtactacaaccagagcggagccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
ggacggcgccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcgccggacacggcggctcagatcaccagcgcaagtgggagggcccgtagggcggagcagctgagagcc
tacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
列番号: 655)

10

【0159】

B*1575 gctcccactccatgaggtatcttacaccgccaagtcccggcccggccgcggggagccccgcttcatcgagt
gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgaggaaggcgccccggcgccaTgga
tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaccg
cggaaacctgcgcggtactacaaccagagcggagccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
ggacggcgccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcgccggacacggcggctcagatcaccagcgcaagtgggagggcccgtagggcggagcagtgagagcc
tacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
列番号: 656)

20

【0160】

B*180101 atgcggggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggc
tggctcccactccatgaggtatctccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggct
acgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccggcgccgtggaTagag
caAgaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagactTaccgagagaccTgcgga
cctgcgcggtactacaaccagagcggagccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacg
ggcgccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagctcctgg
accgcgccggacaccgcccTcagatcaccagcgcaagtgggagggcccgtagggcggagcagctgagagccacct
ggagggcacgtgctgagtgagtggtccgcagacacctggagaacgggaaggagacgctgcagcgcGgacccccaaaga
cacaTgtgaccaccaccctctctgacctgagggcaccctgaggtgctgggcccTgggcttctacctgcgagatc
acactgacctggcagcgggatggcgaggacaaactcaggacaccgagctgtgtggagaccagaccagcaggagatagaac
cttcagaagtgggcagctgtggtggTgctcttgagaagagcagagatacacatgcatgtacagcatgagggctgc
cgaagccccTaccctgagatgggagccatctcccagtcaccatccccatcgTgggcatgtgtgctggcctggctgtc
cta...gcagTgtggtcatcgagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番
号: 657)

30

【0161】

B*180102 gctcccactccatgaggtatctccacacctccgtgtcccggcccggccgcggggagccccgcttcatctca
gtgggctacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccggcgccgtg
gatagagcaagagggccggagtattgggaccggaacacacagatctccaagaccaacacacagacttacAgagagacc
Tgcggaacctgcgcggtactacaaccagagcggagccgggtctcacacctccagaggatgtacggctgcgacgtgggg
ccggacggcgccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgag
ctcctggaccgcgccggacaccgcccTcagatcaccagcgcaagtgggagggcccgtagggcggagcagctgagag
cctacctggagggcacgtgctgagtgagtggtccgcagacacctggagaacgggaaggagacgctgcagcgcGg (配
列番号: 658)

40

【0162】

B*1802 atgcggggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
gctcccactccatgaggtatctccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
gtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccggcgccgtggaTagagca
AgaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagacttaccgagagaccTgcggaacc

50

tgcgcggtactacaaccagagcgaggccgggtctcacacctccagaatatgtaTggctgcgacgtggggccggacggg
 cgctccctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagctccctggac
 cgcgggcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcagctgagagcctacctgg
 agggcacgtgctggagtggtccgcagacacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcagggaccaaactcaggacaccgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccatctctccagctccacatccccatcgtgggcatgtgtgctggcctggctgtctt
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 6 5 9)

10

【 0 1 6 3 】

B*1803 atgcggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatttccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
 gtggacggcaccagttcgtgaggttcgacagcgacgcccgagctccgaggacggagccccgggcgccgtgga tagagca
 Agaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctccctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagctccctggac
 cgcgggcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcagctgagagcctacctgg
 agggcacgtgctggagtggtccgcagacacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcagggaccaaactcaggacaccgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccatctctccagctccacatccccatcgtgggcatgtgtgctggcctggctgtctt
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 6 6 0)

20

【 0 1 6 4 】

B*1804 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t t G c a g t
 g g g t a c g t g g a c g g c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c c c g g g c g c c g t g g a
 t a g a g c a A g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t C c a a g a c c a a c a c a c a g a c t T a c c g a g a g a g c c t g
 c g g a a c c t g c g c g g t a c t a c a a c c a g a g c g a g g c c g g t c t c a c a c c t c c a g a g G a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t g a c c a g t c c g c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c g t g T g g c g g a g c a g c T g a g a g c c
 t a c c t g g a g g g c a c g t g c g t g g a g t g g t c c g c a g a C a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号 : 6 6 1)

30

【 0 1 6 5 】

B*1805 gctcccactccatgaggtatttccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacggcaccagttcgtgaggttcgacagcgacgcccgagctccgaggacggagccccgggcgccgtgga
 tagagcaagaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagga t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t g a c c a g t c c g c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a G g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c g t g t g g c g g a g c a g c t g a g a g c c
 t a c c t g g a g g g c a c g t g c g t g g a g t g g t c c g c a g a C a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号 : 6 6 2)

40

【 0 1 6 6 】

B*1806 atgcggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatttccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
 gtggacggcaccagttcgtgaggttcgacagcgacgcccgagctccgaggacggagccccgggcgccgtgga tagagca
 agaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagacttaccgagTgagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagga t g t a c g g c t g c g a c g t g g g g c c g g a c g g g
 c g c t c c t c c g c g g g c a t g a c c a g t c c g c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t c c t g g a c

50

cgcgggcgacaccgaggctcagatcaccagcgcaagtgggagggcgccggtgtggcgggagcagctgagagcctacctgg
 agggcacgtgctgtgagtggtccgcagaCacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggctctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtggcagctgtggtggctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatctctccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtct
 a...gcagtgtggtcatcggagctgtggtcgctActgtgatgtgtaggaggaagagCtcaggtgga (配列番号
 : 6 6 3)

【 0 1 6 7 】

B*1807 gctcccactccatgaggtat t tccacacctccggtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccgtgga
 tagagcaAgaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagacctg
 cggaaacctgcgcggtactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgacgagctggggcc
 ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgaggctcagatcaccagcgcaagtgggagggcgcccggtgTggcgagcagcTgagagcc
 tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号 : 6 6 4)

10

【 0 1 6 8 】

B*1808 gctcccactccatgaggtat t tccacacctccggtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccgtgga
 tagagcaagaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagacttaccgagagacctg
 cggaaacctgcgcggtactacaaccagagcggaggccgggtctcacacctccagagGatgtGcggctgacgagctggggcc
 ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgaggctcagatcaccagcgcaagtgggagggcgcccggtgTggcgagcagcTgagagcc
 tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号 : 6 6 5)

20

【 0 1 6 9 】

B*1809 gctcccactccatgaggtat t tccacacctccggtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccgtgga
 tagagcaAgaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgcaccgctcGctactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgacgagctggggcc
 ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgaggctcagatcaccagcgcaagtgggagggcgcccggtgTggcgagcagcTgagagcc
 tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号 : 6 6 6)

30

【 0 1 7 0 】

B*1810 gctcccactccatgaggtat t tCacacctccggtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccgtgga
 tagagcaAgaggggcccggagtattgggaccggaacacacagatctCcaagaccaacacacagactTaccgagagacctg
 cggaaacctgcgcggtactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgacgagctggggcc
 ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgaggctcagatcaccagcgcaagtgggagggcgcccggtgTggcgagcagcTgagagcc
 tacctggagggcaggtgctgaggtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcg (配
 列番号 : 6 6 7)

40

【 0 1 7 1 】

B*1811 gctcccactccatgaggtat t tCacacctccggtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccgtgga
 tagagcaAgaggggcccggagtattgggaccggaacacacagatctCcaagaccaacacacagactTaccgagagacctg
 cggaaacctgcgcggtactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgacgagctggggcc
 ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgagct

50

cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTggcggagcagcTgagagcc
tacctggagggcaCgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 668)

【0172】

B*1812 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcgccgtgga
tagagcaAgaggggcccggagtattgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTggcggagcagcTgagagcc
tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 669)

10

【0173】

B*1813 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcgccgtgga
tagagcaAgaggggcccggagtattgggaccggaacacacagatctCcaagaccaacacacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTggcggagcagcggagagcc
tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 670)

20

【0174】

B*1814 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcgccgtgga
tagagcaAgaggggcccggagtattgggaccggaacacacagatctCcaagaccaacacacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTggcggagcagcTgagagcc
tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 671)

30

【0175】

B*1815 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcgccgtgga
tagagcaAgaggggcccggagtattgggaccggaacacacagatctCcaagaccaacacacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTgaggcggagcagcTgagagcc
tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 672)

40

【0176】

B*1818 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacggcaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcgccgtgga
tagagcaagaggggcccggagtattgggaccggaacacacagatctccaagaccaacacacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtCtggctgcgacgtggggcc
ggacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTggcggagcagcTgagagcc
tacctggagggcacgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 673)

【0177】

B*2701 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgt

50

gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggagggccggagtaattgggaccgggagacacagatactGcaaggccaaggcacagacttaccgagagaacctg
 cgcaCcgCgctcCgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaggtgcgacgtggggcc
 ggacggcgccctctccgcggtaccaccagGacgctacgacggcaaggatfacaTcgccctgaacgaggacctgagct
 cctggaccgccgagacacggcggtcagatcaccagcgcaagtgggagggcccgctgTggcggagcagcTgagagcc
 tacctggagggcgagtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号: 674)

【0178】

B*2702 atgccccggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatftccacacctccggtgctcccgccccggccgccccgagccccgcttcatcaccgtgggctac
 gtggacgacacgctgttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctggaTagagca
 ggagggccggagtaattgggaccgggagacacagatactgcaaggccaaggcacagactgaccgagagaacctgcggaTcg
 CgctcCgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaggtgcgacgtggggccggacggg
 cgccctctccgcggtaccaccagGacgctacgacggcaaggatfacaTcgccctgaacgaggacctgagctcctggac
 cgccgaggacacggcggtcagatcaccagcgcaagtgggagggcccgctgTggcggagcagcTgagagccTacctgg
 agggcgagtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccacccccatctctgaccatgaggccacctgaggtgctgggcccTgggcttctacctgCGgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttTggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggTggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTccccTgagatgggagccgtctTcccagTccaccgtccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcgagctgtggTcgctgctgtgaTgtTaggaggaagagCtcaggtgga (配列番号
 : 675)

10

20

【0179】

B*2703 atgccccggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatftccacacctccggtgctcccgccccggccgccccgagccccgcttcatcaccgtgggctac
 gtggacgacacgctgttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctggaTagagca
 ggagggccggagCatgggaccgggagacacagatactgcaaggccaaggcacagactgaccgagaggacctgcggacct
 TgctccgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaggtgcgacgtggggccggacggg
 cgccctctccgcggtaccaccagGacgctacgacggcaaggatfacaTcgccctgaacgaggacctgagctcctggac
 cgccgaggacacggcggtcagatcaccagcgcaagtgggagggcccgctgTggcggagcagcTgagagccTacctgg
 agggcgagtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccacccccatctctgaccatgaggccacctgaggtgctgggcccTgggcttctacctgCGgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttTggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggTggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTccccTgagatgggagccgtctTcccagTccaccgtccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcgagctgtggTcgctgctgtgaTgtTaggaggaagagCtcaggtgga (配列番号
 : 676)

30

【0180】

B*2704 atgccccggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatftccacacctccggtgctcccgccccggccgccccgagccccgcttcatcaccgtgggctac
 gtggacgacacgctgttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctggaTagagca
 ggagggccggagtaattgggaccgggagacacagatactgcaaggccaaggcacagactgaccgagagacctgcggacct
 TgctccgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaggtgcgacgtggggccggacggg
 cgccctctccgcggtaccaccagGacgctacgacggcaaggatfacaTcgccctgaacgaggacctgagctcctggac
 cgccgaggacacggcggtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagagccTacctgg
 agggcgagtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccacccccatctctgaccatgaggccacctgaggtgctgggcccTgggcttctacctgGgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttTggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggTggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTccccTgagatgggagccgtctTcccagTccaccgtccccatcgTgggcatTgtTgctggcctggctgtcct

40

50

a...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagctcaggtgga (配列番号 : 677)

【0181】

B*270502 atgcggtcacggcgccccgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggc tggctcccactccatgaggtatftccacacctccgtgtcccggcccggccgaggagccccgcttcatcaccgtgggct acgtggacgacacgctgttctgtgaggttcgacagcgacgcccgagctccgagagaggagccgaggcgccgtgga tagag caggaggggcccggagtattgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagGacctgaggac cctgctccgctactacaaccagagcgaggccgggtctcacaccctccagaaTatgtagtggtgcgacgtggggccggacg ggccctcctccgcggtaccaccagGacgcttacgacggcaaggattacatcgccctgaacgaggacctgAgctcctgg accgcccggacacggcggctcagatcaccagcgcaagtgggagggcccggtgtggcggagcagcTgagagctacct ggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggcccccaaaaga cacagtgaccaccaccctctctgacctgaggccacctgaggtgctgggcccgggcttctacctgaggagatc acactgacctggcagcgggatggcgaggacaaactcaggacactgagcttgtggagaccagaccagcaggagatagaac ctccagaagtgggcagctgtggtgggctctctggagaagagcagagatacacatgccaatgtacagcatgagggctgc cgaagccccctaccctgagatgggagccgtcttcccagtcaccgtccccatcggtggcatgttggctggcctggctgtc cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcaggtgga (配列番 号 : 678)

10

【0182】

B*270503 gctacgtggacgacacgctgttctgtgaggttcgacagcgacgcccgagctccgagagaggagccgaggcg ccgtggatagagcaggaggggcccggagtattgggaccgggagacacagatctgcaaggccaaggcacagactgaccgaga ggacctgaggacctgctccgctactacaaccagagcgaggccgggtctcacaccctccagaaatgtagtggtgcgacg tggggccggacgggcccctcctccgcggtaccaccaggacgcttacgacggcaaggattacatcgccctgaacgaggac ctgagctcctggaccgccggacacggcAgctcagatcaccagcgcaagtgggagggcccggtgtggcggagcagct gagagctacctggagggcgagtgctggagtggct (配列番号 : 679)

20

【0183】

B*270504 atgcggtcacggcgccccgaaccctcctcctgctgctctggggggcaGtgccctgaccgagacctgggc cggctcccactccatgaggtatftccacacctccgtgtcccggcccggccgaggagccccgcttcatcaccgtgggct acgtggacgacacgctgttctgtgaggttcgacagcgacgcccgagctccgagagaggagccgaggcgccgtgga tagag caggaggggcccggagtattgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagGacctgaggac cctgctccgctactacaaccagagcgaggccgggtctcacaccctccagaaTatgtagtggtgcgacgtggggccggacg ggccctcctccgcggtaccaccagGacgcttacgacggcaaggattacatcgccctgaacgaggacctgAgctcctgg accgcccggacacggcggctcagatcaccagcgcaagtgggagggcccggtgtggcggagcagcTgagagctacct ggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgGg (配列番号 : 680)

30

【0184】

B*270505 atgcggtcacggcgccccgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggc tggctcccactccatgaggtatftccacacctccgtgtcccggcccggccgaggagccccgcttcatcaccgtgggct acgtggacgacacgctgttctgtgaggttcgacagcgacgcccgagctccgagagaggagccgaggcgccgtgga tagag caggaggggcccggagtattgggaccgggagacacagatctgcaaggccaaggcacagactgaccgagaggacctgaggac cctgctccgctactacaaccagagcgaggccggTtctcacaccctccagaaatgtagtggtgcgacgtggggccggacg ggccctcctccgcggtaccaccaggacgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctgg accgcccggacacggcggctcagatcaccagcgcaagtgggagggcccggtgtggcggagcagctgagagctacct ggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggcccccaaaaga cacagtgaccaccaccctctctgacctgaggccacctgaggtgctgggcccgggcttctacctgaggagatc acactgacctggcagcgggatggcgaggacaaactcaggacactgagcttgtggagaccagaccagcaggagatagaac ctccagaagtgggcagctgtggtgggctctctggagaagagcagagatacacatgccaatgtacagcatgagggctgc cgaagccccctaccctgagatggg (配列番号 : 681)

40

【0185】

B*270506 gctcccactccatgaggtatftccacacctccgtgtcccggccTggccgaggagccccgcttcatcacc gtggctacgtggacgacacgctgttctgtgaggttcgacagcgacgcccgagctccgagagaggagccgaggcgccgtg

50

gatagagcaggagggccggagtattgggaccgggagacacagatctgcaaggccaaggcacagactgaccgagaggacc
 tgcggaccctgctccgctactacaaccagagcggaggccgggtctcacaccctccagaaatgtatggctgcgacgtgggg
 ccggagggcgccctcctccgcggtaccaccaggagccctacgacggcaaggattacatcgccctgaacgaggacctgAg
 ctctggaccgccgaggacacggcggctcagatcacccagcgaagtgggagggcgcccggtggcggagcagctgagag
 cctaccTggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgagg (

配列番号：682)

【0186】

B*2706 atgcggtcacggcgccccgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatttccacacctccgtgtcccggcccgccgaggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttctgtgaggttcgacagcgacgccgcgagtcgagagaggagccgccccgctggaatagagca
 ggaggggcccggagtattgggaccgggagacacagatctgcaaggccaaggcacagactgaccgagagacctgaggacc
 tgcctccgctactacaaccagagcggaggccgggtctcacaccctccagaaatgtatggctgcgacgtggggccggacggg
 cgccctcctccgcggtatgaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgccgaggacacggcggctcagatcacccagcgaagtgggagggcgcccgtagggcggagcagctgagagcctaccTgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccaccaccaatctctgaccatgaggccacctgaggtgctgggcccTgggcttctaccctgGggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggTggTgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccgtcttcccagTccaccgtccccatcgTgggcatgtgtgctggcctggctgtcct
 a...gcagTgtggTcatcggagctgtggTcgctgctgtgtagttaggaggaagagctcaggtgga (配列番号

10

20

: 683)

【0187】

B*2707 ggctcccactccatgaggtatttccacacctccgtgtcccggcccgccgaggagccccgcttcatcaccg
 tgggctacgtggacgacacgctgttctgtgaggttcgacagcgacgccgcgagtcgagagaggagccgccccgctgg
 atagagcaggaggggcccggagtattgggaccgggagacacagatctgcaaggccaaggcacagactgaccgagagGacct
 gggaccctgctcCgctactacaaccagagcggaggccgggtctcacaccctccagagcatgtacggctgcgacgtggggc
 cggacgggcccctcctccgcgggcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgccc
 tctTggaccgccgaggacacggcggctcagatcacccagcgaagtgggagggcgcccggtggcggagcagctgagagc
 ctaccTggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgaggaccccc
 caaagacacacgtgaccaccaccaccaatctctgaccatgaggccacctgaggtgctgggcccTgggcttctaccctgcg
 gagaTcacactgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggaga
 tagaaccttccagaagtgggcagctgtggTggTgcttctggagaagagcagagatacacatgccatgtacagcatgagg
 ggctgccgaagccccTaccctgagatgggagccgtcttcccagTccaccgtccccatcgTgggcatgtgtgctggcctg
 gctgtccta...gcagTgtggTcatcggagctgtggTcgctgctgtgtagttaggaggaagagCt caggtgga (

30

配列番号：684)

【0188】

B*2708 atgcggtcacggcgccccgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatttccacacctccgtgtcccggcccgccgaggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttctgtgaggttcgacagcgacgccgcgagtcgagagaggagccgccccgctggaatagagca
 ggaggggcccggagtattgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagacctgccaacc
 tgcgcccTactacaaccagagcggaggccgggtctcacaccctccagaaTatgtatggctgcgacgtggggccggacggg
 cgccctcctccgcggtaccaccagGacgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgccgaggacacggcggctcagatcacccagcgaagtgggagggcgcccggtTggcggagcagctgagagcctaccTgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccaccaccaatctctgaccatgaggccacctgaggtgctgggcccTgggcttctaccctgCggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggTggTgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccgtcttcccagTccaccgtccccatcgTgggcatgtgtgctggcctggctgtcct
 a...gcagTgtggTcatcggagctgtggTcgctgctgtgtagttaggaggaagagCt caggtgga (配列番号

40

: 685)

50

【 0 1 8 9 】

B*2709 atgCGggtcacggcGccccgaaccctcctcctgctgctctggggggcagtgGCCtgaccgagacctgggctg
 gctcccactccatgaggatattccacacctccgtgtcccggcccggccgCGgggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttctgtgaggttcgacagcgacGCCcgagtcgagagaggagccgCGggcgccgtggaTagagca
 ggaggggCCggagtatgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagaggacctgCGgacc
 tGctccgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaTggctgCGacgtggggCCggacggg
 cgctcctccgCGggtaccaccagGacgctacgacggcaaggatfacatcgcccTgaacgaggacctgagctcctggac
 CGccgCGgacacggCGgctcagatcaccagcgcaagtgggagggcccggtgTggCGgagcagctgagagcctaccTgg
 agggcgagtgCGtgagtggtcCCgagataccTggagaacgggaaggagacgctgCagcCGcgCGgacccccaaagaca
 cacgtgaccaccaccccaTctctgaccatgaggccacctgaggTgctgggcccTgggctctTaccctgCGgagatcac
 actgacctggcagCGggaTggCGaggaccAAactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 tccagaagtgggCagctgtggTggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctGCCg
 aagccccTaccctgagatgggagccgtctTcccagTccaccgtccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatCGgagctgtggTcgctgctgtgtaTgtTaggaggaagagctcaggtgga (配列番号
 : 6 8 6)

10

【 0 1 9 0 】

B*2710 gctcccactccatgaggatattccacacctccgtgtcccggcccggccgCGgggagccccgcttcatcaccgt
 gggctacTggacgacacgctgttctgtgaggttcgacagcgacGCCcgagtcgagagaggagccgCGggcgccgtgga
 TagagcaggaggggCCggagtatgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagGacctg
 CGgacctgctccgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaTggctgCGacgtggggcc
 ggacgggCGcctcctccgCGggtaccaccagGacgctacgacggcaaggatfacatcgcccTgaacgaggacctgAgct
 cctggaccCGcgCGgacacggCGgctcagatcaccagcgcaagtgggagggcccggtgaggCGgagcagctGagagcc
 tactggagggcgagtgCGtgagtggtcCCgagataccTggagaacgggaaggagacgctgCagcCGcgCGg (配
 列番号 : 6 8 7)

20

【 0 1 9 1 】

B*2711 atgCGggtcacggcGccccgaaccctcctcctgctgctctggggggcagtgGCCtgaccgagacctgggctg
 gctcccactccatgaggatattccacacctccgtgtcccggcccggccgCGgggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttctgtgaggttcgacagcgacGCCcgagtcgagagaggagccgCGggcgccgtggaTagagca
 ggaggggCCggagtatgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagacctgCGgacc
 tGctcCGctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgCGacgtggggCCggacggg
 cgctcctccgCGggcatAaccagTacgctacgacggcaaggatfacatcgcccTgaacgaggacctgCGctcctggac
 CGccgCGgacacggCGgctcagatcaccagcgcaagtgggagggcccggtgTggCGgagcagctgagagcctaccTgg
 agggcgagtgCGtgagtggtcCCgagataccTggagaacgggaaggagacgctgCagcCGcgCGgacccccaaagaca
 cacgtgaccaccaccccaTctctgaccatgaggccacctgaggTgctgggcccTgggctctTaccctgCGgagatcac
 actgacctggcagCGggaTggCGaggaccAAactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 tccagaagtgggCagctgtggTggTgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctGCCg
 aagccccTaccctgagatgggagccgtctTcccagTccaccgtccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatCGgagctgtggTcgctgctgtgtaTgtTaggaggaagagctcaggtgga (配列番号
 : 6 8 8)

30

【 0 1 9 2 】

B*2712 atgCGggtcacggcGccccgaaccctcctcctgctgctctggggggcagtgGCCtgaccgagacctgggctg
 gctcccactccatgaggatattccacacctccgtgtcccggcccggccgCGgggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttctgtgaggttcgacagcgacGCCcgagtcgagagaggagccgCGggcgccgtggaTagagca
 ggaggggCCggagtatgggaccgggagacacagatctGcaagaccaacAcacagactgaccgagagagcctgCGgaacc
 tGCGggctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaTggctgCGacgtggggCCggacggg
 cgctcctccgCGggtaccaccagGacgctacgacggcaaggatfacatcgcccTgaacgaggacctgagctcctggac
 CGccgCGgacacggCGgctcagatcaccagcgcaagtgggagggcccggtgTggCGgagcagctgagagcctaccTgg
 agggcgagtgCGtgagtggtcCCgagataccTggagaacgggaaggagacgctgCagcCGcgCGgacccccaaagaca
 cacgtgaccaccaccccaTctctgaccatgaggccacctgaggTgctgggcccTgggctctTaccctgCGgagatcac
 actgacctggcagCGggaTggCGaggaccAAactcaggacactgagctTgtggagaccagaccagcaggagatagaacct

40

50

tccagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccgtctcccagtcaccgtccccatcgtgggcatgttgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 689)

【0193】

B*2713 atgcggtcacggagccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttcgtgaggttcgacagcgacgcccgagtcgagagaggagcccgggcgccgtgga tagagca
 ggagggccggagtattgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagGacctgaggacc
 t gctccgctactacaaccagagcagggccgggtctcacacctccagaaTatgtagtggctgagcgtggggccggacggg
 cgctcctccgcggtaccaccagGacgctacgacggcaaggat taca tgccttgaacgaggacctgAgctcctggac
 cgccgaggacacggcggtcagatcaccagcgcaagtgggagggcccggtgTggcggagcagcTgagagccacctgg
 agggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcggacccccaaagaca
 cacgtgaccaccaccatctctgacctgaggccacctgaggtgctgggccc tgggtcttacctgaggagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccgtctcccagtcaccgtccccatcgtgggcatgttgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 690)

【0194】

B*2714 atgcggtcacggcgcgccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttcgtgaggttcgacagcgacgcccgagtcgagagaggagcccgggcgccgtgga tagagca
 ggagggccggagtattgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagGacctgaggacc
 t gctccgctactacaaccagagcagggccgggtctcacacttggcagacgatgtagtggctgagcgtggggccggacggg
 cgctcctccgcggtaccaccagGacgctacgacggcaaggat taca tgccttgaacgaggacctgAgctcctggac
 cgccgaggacacggcggtcagatcaccagcgcaagtgggagggcccggtgTggcggagcagcTgagagccacctgg
 agggcgagtgcgtggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配列番号 :
 691)

【0195】

B*2715 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgcccgagtcgagagaggagcccgggcgccgtgga
 tagagcaggagggccggagtattgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagacctg
 cggacctgctccgctactacaaccagagcagggccgggtctcacacctccagaaTatgtagtggctgagcgtggggcc
 ggacggcgccctcctccgcggtaccaccagGacgctacgacggcaaggat taca tgccttgaacgaggacctgagct
 cctggaccggcgggacacggcggtcagatcaccagcgcaagtgggagggcccggtgaggcggagcagctgagagcc
 tactggagggcaCgtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号 : 692)

【0196】

B*2716 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgcccgagtcgagagaggagcccgggcgccgtgga
 tagagcaggagggccggagtattgggaccgggagacacagatctGcaagaccaacAcacagactgaccgagagGacctg
 cggacctgctccgctactacaaccagagcagggccgggtctcacacctccagaaTatgtagtggctgagcgtggggcc
 ggacggcgccctcctccgcggtaccaccagGacgctacgacggcaaggat taca tgccttgaacgaggacctgAgct
 cctggaccggcgggacacggcggtcagatcaccagcgcaagtgggagggcccggtgaggcggagcagctgagagcc
 tactggagggcagtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号 : 693)

【0197】

B*2717 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgcccgagtcgagagaggagcccgggcgccgtgga

10

20

30

40

50

tagagcaggagggccggagtTttgggaccgggagacacagatctgcaaggccaaggcacagactgaccgagaggacctg
 cggacctgctccgctactacaaccagagcggaggccgggtctcacacctccagaaatgtatggctgcgacgtggggcc
 ggacgggcccctcctccgcggtaccaccaggacgctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggaggcggcccgtgtggcggagcagctgagagcc
 tacctggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号：694)

【0198】

B*2718 atgctgggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccccgaccgagacctgggctg
 gctcccactccatgaggtatctccacacctccgtgtcccgccccggccgccccgggagccccgcttcatcacctgggtac
 gtggacgacacgcTgttcgtgaggttcgacagcgacgcccgcgagtcgagagaggagccgccccgctggaatagagca
 ggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacAcacagactTaccgagagagcctgcggaacc
 tgcgcccactactacaaccagagcggaggccgggtctcacacctccagaaTatgtatggctgcgacgtggggccggacggg
 cgctcctccgcggtaccaccagGacgctacgacggcaaggattacatcgcccgaacgaggacctgAgctcctggac
 cgccggacacggcggctcagatcacccagcgcaagtgggaggcggcccgtgaggcggagcagctgagagccacctgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配列番号：
 695)

10

【0199】

B*2719 gctcccactccatgaggtatctccacacctccgtgtcccgccccggccgccccgggagccccgcttcatcacctg
 gggctacgtggacgacacgcgttcgtgaggttcgacagcgacgcccgcgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctgcaaggccaaggcacagactgaccgagagGacctg
 cggacctgctccgctactacaaccagagcggaggccgggtctcacacctccagaaTatgtatggctgcgacgtggggcc
 ggacgggcccctcctccgcggtaccaccagGacgctacgacggcaaggattacatcgcccgaacgaggacctgAgct
 cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggaggcggcccgtgtggcggagcagctgagagcc
 tacctggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：696)

20

【0200】

B*2720 gctcccactccatgaggtatctccacacctccgtgtcccgccccggccgccccgggagccccgcttcatcacctg
 gggctacgtggacgacacgcgttcgtgaggttcgacagcgacgcccgcgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctgcaaggccaaggcacagactgaccgagagacctg
 cggacctgctccgctactacaaccagagcggaggccgggtctcacacctccagaaTatgtatggctgcgacgtggggcc
 ggacgggcccctcctccgcggtaccaccagGacgctacgacggcaaggattacatcgcccgaacgaggacctgAgct
 cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggaggcggcccgtgtggcggagcagctgagagcc
 tacctggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：697)

30

【0201】

B*2721 gctcccactccatgaggtatctccacacctccgtgtcccgccccggccgccccgggagccccgcttcatcacctg
 gggctacgtggacgacacgcgttcgtgaggttcgacagcgacgcccgcgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctGcaaggccaaggcacagactgaccgagagacctg
 cggacctgctcCgctactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcggtTatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgAgct
 cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggaggcggcccgtgtggcggagcagctgagagcc
 tacctggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：698)

40

【0202】

B*2723 gctcccactccatgaggtatctccacacctccgtgtcccgccccggccgccccgggagccccgcttcatcacctg
 gggctacgtggacgacacgcgttcgtgaggttcgacagcgacgcccgcgagtcgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagacctg
 cggacCctgctcCgctactacaaccagagcggaggccgggtctcacacctccagaaTatgtatggctgcgacgtggggcc
 ggacgggcccctcctccgcggtaccaccagGacgctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggaggcggcccgtgtggcggagcagctgagagcc
 tacctggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：698)

50

cgCTcctccgCGggcataaccagTAcgCctAcgacggcaaggatTAcATcgccctgaacgaggacctgagctcctggac
 cgCGgCGgacaccgCGgctcagatcaccagcgcaagtgggagggCGgcccgtgtggCGgagcagctgagagcctaccTgg
 agggcctgtgCGtggagTggctccgCagataccTggagaacgggaaggagacgctgcagcgcgCGgacccccaaagaca
 cacgtgaccaccaccccgTctctgaccatgaggccaccctgaggTgctgggcccTgggctTctaccctgCGgagatcac
 actgaccTggcagcgggatggcGaggaccaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 TccagaagtgggCagctgtggTggTgCctTctggagaagagcagagatacacatgccaTgtacagcatgaggggctgCCg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcgGagctgtggTcgctactgtgATgtgtaggaggaagagctcaggtgga (配列番号
 : 704)

【0208】

10

B*3503 atgCGggtcacGGcGccccgaaccgtcctcctgctgctctggggggcagTggccctgaccgagacctgggCGg
 gctcccactccatgaggTatTctacaccgccaTgtcccggcccggCGgGGgagccccgctTcatcgCagTgggctac
 gtggacgacaccacagTtCGtGaggtTcgacagcGacgCCgCgagTccgaggacggagccccgggCGccaTggaTAgagca
 ggaggggCGgagTatTgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagagcctgcggaacc
 TgCGgCGctactacaaccagagcGagggccgggtctcacaTcatccagaggaTgTatggctgCGacctggggcccGacggg
 CGcctcctccgCGggcatgaccagTTCgCctAcgacggcaaggatTAcATcgccctgaacgaggacctgAgctcctggac
 cgCGgCGgacaccgCGgctcagatcaccagcgcaagtgggagggCGgcccgtTgTggCGgagcagCTgagagcctaccTgg
 agggcctGtTgCGtggagTggctccgCagataccTggagaacgggaaggagacgctgcagcgcgCGgacccccaaagaca
 cacgtgaccaccacccGtctctgaccatgaggccaccctgaggTgctgggcccTgggctTctaccctgCGgagatcac
 actgaccTggcagcgggatggcGaggaccaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 TccagaagtgggCagctgtggTggTgCctTctggagaagagcagagatacacatgccaTgtacagcatgaggggctgCCg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcgGagctgtggTcgctactgtgATgtgtaggaggaagagctcaggtgga (配列番号
 : 705)

【0209】

20

B*3504 atgCGggtcacGGcGccccgaaccgtcctcctgctgctctggggggcagTggccctgaccgagacctgggCGg
 gctcccactccatgaggTatTctacaccgccaTgtcccggcccggCGgGGgagccccgctTcatcgCagTgggctac
 gtggacgacaccacagTtCGtGaggtTcgacagcGacgCCgCgagTccgaggacggagccccgggCGccaTggaTAgagca
 ggaggggCGgagTatTgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagagcctgcggaacc
 TgCGgCGctactacaaccagagcGagggccgggtctcacaTcatccagaggaTgTatggctgCGacctggggcccGacggg
 CGcctcctccgCGggcatAaccagTAcgCctAcgacggcaaggatTAcATcgccctgaacgaggacctgAgctcctggac
 cgCGgCGgacaccgCGgctcagatcaccagcgcaagtgggagggCGgcccgtTgTggCGgagcagCTgagagcctaccTgg
 agggcctGtTgCGtggagTggctccgCagataccTggagaacgggaaggagacgctgcagcgcgCGgacccccaaagaca
 cacgtgaccaccacccGtctctgaccatgaggccaccctgaggTgctgggcccTgggctTctaccctgCGgagatcac
 actgaccTggcagcgggatggcGaggaccaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 TccagaagtgggCagctgtggTggTgCctTctggagaagagcagagatacacatgccaTgtacagcatgaggggctgCCg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcgGagctgtggTcgctactgtgATgtgtaggaggaagagctcaggtgga (配列番号
 : 706)

【0210】

30

B*3505 atgCGggtcacGGcGccccgaaccgtcctcctgctgctctggggggcagTggccctgaccgagacctgggCGg
 gctcccactccatgaggTatTctacaccgccaTgtcccggcccggCGgGGgagccccgctTcatcgCagTgggctac
 gtggacgacaccacagTtCGtGaggtTcgacagcGacgCCgCgagTccgaggacggagccccgggCGccaTggaTAgagca
 ggaggggCGgagTatTgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagagcctgcggaacc
 TgCGgCGctactacaaccagagcGagggccgggtctcacaccctccagagcatgtacggctgCGacctggggcccGacggg
 CGcctcctccgCGggcatgaccagTTCgCctAcgacggcaaggatTAcATcgccctgaacgaggacctgAgctcctggac
 cgCGgCGgacaccgCGgctcagatcaccagcgcaagtgggagggCGgcccgtTgTggCGgagcagCTgagagcctaccTgg
 agggcctGtTgCGtggagTggctccgCagataccTggagaacgggaaggagacgctgcagcgcgCGgacccccaaagaca
 cacgtgaccaccacccGtctctgaccatgaggccaccctgaggTgctgggcccTgggctTctaccctgCGgagatcac
 actgaccTggcagcgggatggcGaggaccaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 TccagaagtgggCagctgtggTggTgCctTctggagaagagcagagatacacatgccaTgtacagcatgaggggctgCCg
 aagccccTaccctgagatgggagccatctTcccagTccaccatccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcgGagctgtggTcgctactgtgATgtgtaggaggaagagctcaggtgga (配列番号
 : 706)

40

50

tccagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 7 0 7)

【 0 2 1 1 】

B*3506 atgcggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtatcttacaccgccatgtcccggcccggcggggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcggaggacggagccccgggcccagtgga tagagca
 ggaggggcccggagtattgggaccggaacacacagatctcaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcccgtactacaaccagagcagggccgggtctcacatcatccagaggatgtaggtgcgacctggggcccagcggg
 cgctcctccgcccgcataAaccagtTcgctacgacggcaaggatfacatcgcccgaacgaggacctgAgctcctggac
 cgcgccggacaccgcccgcagatcaccagcgcgaagtgggagggcccgtgTggcggagcagcTgagagcctaccgg
 agggcTgtgctgagtggtcctcgcagataccgggagaccggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccaccctGtcttgaccatgaggccacctgaggtgctgggcccgggcttctacctgcccagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 7 0 8)

【 0 2 1 2 】

B*3507 atgcggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtatcttacaccgccatgtcccggcccTccgcccgggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcggaggacggagccccgggcccagtgga tagagca
 ggaggggcccggagtattgggaccggaacacacagatctcaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcccgtactacaaccagagcagggccgggtctcacatcatccagaggatgtaggtgcgacctggggcccagcggg
 cgctcctccgcccgcatagaccagtcgctacgacggcaaggatfacatcgcccgaacgaggacctgagctcctggac
 cgcgccggacaccgcccgcagatcaccagcgcgaagtgggagggcccgtgTggcggagcagcTgagagcctaccgg
 agggcTgtgctgagtggtcctcgcagataccgggagaccggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccaccctGtcttgaccatgaggccacctgaggtgctgggcccgggcttctacctgcccagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 7 0 9)

【 0 2 1 3 】

B*3508 atgcggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtatcttacaccgccatgtcccggcccggcggggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcggaggacggagccccgggcccagtgga tagagca
 ggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacAcacagacttaccgagagagcctgcggaacc
 tgcgcccgtactacaaccagagcagggccgggtctcacatcAtccagaggatgtagTggctgcgacctggggcccagcggg
 cgctcctccgcccgcatagaccagtCcgctacgacggcaaggatfacatcgcccgaacgaggacctgAgctcctggac
 cgcgccggacaccgcccgcagatcaccagcgcgaagtgggagggcccgtgTggcggagcagcgggagagcctaccgg
 agggcTgtgctgagtggtcctcgcagataccgggagaccggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccaccctGtcttgaccatgaggccacctgaggtgctgggcccgggcttctacctgcccagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 7 1 0)

【 0 2 1 4 】

10

20

30

40

50

B*350901 atgCGGGTcAcGGcGCCCCgaaccgtcctcctgctgctctggggggcagtgGCCctgaccgagacctgggc
 cggctcccactccatgaggtaattctacaccgccaatgtcccggcccggccgCGGGgagccccgcttcatcgcagtgggct
 acgtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcgaggacggagccccgggCGcctgga tagag
 caggaggggCCGGagtatgggaccggaacacacagatctcaagaccaacacacagacttaccgagagagcctgCGgaa
 cctgCGcggctactacaaccagagcgaggccgggtctcacatcatccagaggatgtaggctgCGacctggggCCGacg
 ggCGcctcctccgCGggcatAaccgtagcctacgacggcaaggatfacatcgccctgaacgaggacctgCGctcctgg
 accgCGcggacaccgCGctcagatcaccagcgcaagtgggagggCGccgtgTggCGgagcagcTgagagcctacct
 ggagggcTgtgCGtgagtggtccgcagatacctggagaacgggaaggagacgctgCagcgcgCGgacccccaaaga
 cacagtgaccaccaccGtctctgaccatgaggccacctgaggtgctgggcccTgggttctacctgCGgagatc
 acactgacctggcagCGggaTggcGaggaccaaactcaggacactgagcttgggagaccagaccagcaggagatagaac
 ctccagaagtgggCagctgtggtggTgcttctggagaagagcagagatacacatgccaTgtacagcatgagggcTgC
 cgaagccccTaccctgagatgggagccatctcccagTccaccatccccatcgTgggcatgtgtgctggcctggctgtc
 cta...gcagttgtggtcatCGgagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番
 号：711)

10

【0215】

B*350902 gctcccactccatgaggtaattctacaccgccaatgtcccggcccggccgCGGGgagccccgcttcatcgca
 gtggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcgaggacggagccccgggCGcctg
 gatagagcaggaggggCCGGagtatgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagagcc
 tgcggaacctgCGcggctactacaaccagagcgaggccgggtctcacatcatccagaggatgtaggctgCGacctgggg
 ccCGacgggCGcctcctccgCGggcatAaccgtagcctacgacggcaaggatfacatcgccctgaacgaggacctgCG
 ctctggaccCGcggacacggCGctcagatcaccagcgcaagtgggagggCGccgtgTggCGgagcagcTgagag
 cctacctggagggcTgtgCGtgagtggtccgcagatacctggagaacgggaaggagacgctgCagcgcCG (配
 列番号：712)

20

【0216】

B*3510 gctcccactccatgaggtaattctacaccgccaatgtcccggcccggccgCGGGgagccccgcttcatcgca
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcgaggacggagccccgggCGcctg
 tagagcaggaggggCCGGagtatgggaccggaGacacagatctTcaagaccaacAcacagactTaccgagagagcctg
 CGgaacctgCGcggctactacaaccagagcgaggccgggtctcacatcAtccagaggatgtaggctgCGacCTggggcc
 CGacgggCGcctcctccgCGggcatgaccagtCgCctacgacggcaaggatfacatcgccctgaacgaggacctgAgct
 cctggaccCGcggacacCGcggctcagatcaccagcgcaagtgggagggCGccgtgTggCGgagcagcTgagagcc
 tactggagggcTgtgCGtgagtggtccgcagatacctggagaacggga (配列番号：713)

30

【0217】

B*3511 atgCGGGTcAcGGcGCCCCgaaccgtcctcctgctgctctggggggcagtgGCCctgaccgagacctgggCG
 gctcccactccatgaggtaattctacaccgccaatgtcccggcccggccgCGGGgagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcgaggacggagccccgggCGcctgga tagagca
 ggaggggCCGGagtatgggaccggaacacacagatctcaagaccaacAcacagacttaccgagagagcctgCGgaacc
 tgcCGcggctactacaaccagagcgaggccgggtctcacatcAtccagaggatgtaggctgCGacctggggcccGacggg
 CGcctcctccgCGggcatgaccagtCgCctacgacggcaaggatfacatcgccctgaacgaggacctgAgctcctggac
 CGcggCGgacaccgCGctcagatcaccagcgcaagtgggagggCGccgtgaggCGgagcagcTgagagcctacctgg
 agggcTgtgCGtgagtggtccgcagatacctggagaacgggaaggagacgctgCagcgcCGgacccccaaagaca
 cagtgaccaccaccGtctctgaccatgaggccacctgaggtgctgggcccTgggttctacctgCGgagatcac
 actgacctggcagCGggaTggcGaggaccaaactcaggacactgagcttgggagaccagaccagcaggagatagaacct
 tccagaagtgggCagctgtggtggTgcttctggagaagagcagagatacacatgccaTgtacagcatgagggcTgCG
 aagccccTaccctgagatgggagccatctcccagTccaccatccccatcgTgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatCGgagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番号
 : 714)

40

【0218】

B*3512 atgCGGGTcAcGGcGCCCCgaaccgtcctcctgctgctctggggggcagtgGCCctgaccgagacctgggCG
 gctcccactccatgaggtaattctacaccgccaatgtcccggcccggccgCGGGgagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcgaggacggagccccgggCGcctgga tagagca

50

ggaggggcccggagtattgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgaggctactacaaccagagcaggccgggtctcacatcatccagaggatgtacggctgcgacgtggggccggacggg
 cgctcctccgaggcatAaccagtagcctacgacggcaaggatatactcgccctgaacgaggacctgAgctcctggac
 cgggcggacaccgaggctcagatcaccagcgaagtgggagggcccggtgTggcggagcagcTgagagcctacctgg
 agggcTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccaccGtctctgaccatgaggccacctgaggctgctgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgggtggctctggagaagagcagagatacacatgccatgtacagcatgaggggctgcc
 aagccccaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtgggtcatcggagctgtggctcgctactgtgagtgtgtaggaggaagagCtcagggtgga (配列番号
 : 7 1 5)

10

【 0 2 1 9 】

B*3513 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgaggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgcgcccggagctccgaggacggagccccgggcccatagga
 tagagcaggaggggcccggagtattgggaccgggaGacacagatctTcaagaccaacacacagactTaccgagagagcctg
 cggaaactgcgaggctactacaaccagagcaggccgggtctcacatcatccagaggatgtatggctgcgacctggggcc
 CgacgggcccctcctccgaggcatgaccagttcgccctacgacggcaaggatatactcgccctgaacgaggacctgAgct
 cctggaccgaggcggacacCgaggctcagatcaccagcgaagtgggagggcccggtgTggcggagcagcTgagagcc
 tactggagggcTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgCagcgcgcGg (配
 列番号 : 7 1 6)

20

【 0 2 2 0 】

B*3514 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgaggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgcgcccggagctccgaggacggagccccgggcccatagga
 tagagcaggaggggcccggagtattgggaccgggaacacacagatctTcaagaccaacacacagacttaccgagagagcctg
 cggaaactgcgaggctactacaaccagagcaggccgggtctcacatcatccagaggatgtatggctgcgacctggggcc
 cgacgggcccctcctccgaggcatgaccagttcgccctacgacggcaaggatatactcgccctgaacgaggacctgagct
 cctggaccgaggcggacacCgaggctcagatcaccagcgaagtgggagggcccggtgaggcggagcagTggagagcc
 tactggagggcTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号 : 7 1 7)

30

【 0 2 2 1 】

B*3515 atgagggtcacggcggccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgaggggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgcgcccggagctccgaggacggagccccgggcccatagga
 tagagcaggaggggcccggagtattgggaccgggaacacacagatctTcaagaccaacAcacagacttaccgagagagcctgcggaacc
 tgcgaggctactacaaccagagcaggccgggtctcacatcAtccagaggatgtatggctgcgacctggggcccggacggg
 cgctcctccgaggcatgaccagttcgccctacgacggcaaggatatactcgccctgaacgaggacctgAgctcctggac
 cgggcggacaccgaggctcagatcaccagcgaagtgggagggcccggtgTggcggagcagcTgagagcctacctgg
 agggcagtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号 : 7 1 8)

40

【 0 2 2 2 】

B*3516 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgaggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgcgcccggagctccgaggacggagccccgggcccatagga
 tagagcaggaggggcccggagtattgggaccgggaGacacagatctTcaagaccaacAcacagactTaccgagagagcctg
 cggaaactgcgaggctactacaaccagagcaggccgggtctcacatcAtccagagcatgtacggctgcgacgtggggcc
 CgacgggcccctcctccgaggcatgaccagttcgccctacgacggcaaggatatactcgccctgaacgaggacctgAgct

50

cctggaccgcgccggacacCgcggctcagatcaccagcgcaagtgggaggcggcccgtgTggcggagcagcTgagagcc
tacctggagggccTgtgctgaggaggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号: 7 1 9)

【 0 2 2 3 】

B*3517 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgcccgcgagtcgagggacggagccCggggcgccAtgga
tagagcaggaggggcccggagtatgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagagcagtacggctgcgacgtggggcc
CgacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgAgct
cctggaccgcgccggacacCgcggctcagatcaccagcgcaagtgggaggcggcccgtgTggcggagcagcTgagagcc
tacctggagggccTgtgctgaggaggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号: 7 2 0)

10

【 0 2 2 4 】

B*3518 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgcccgcgagtcgagggacggagccccggggcgccaTgga
tagagcaggaggggcccggagtatgggaccggaacacacagatctTcaagaccaacAcacagacttaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagaggaTgtaTggctgcgacctggggcc
CgacgggcccctctccgcgggcatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgAgct
cctggaccgcccggacacggcggtcagatcaccagcgcaagtgggaggcggcccgtgTggcggagcagcggagagcc
tacctggagggccTgtgctgaggaggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号: 7 2 1)

20

【 0 2 2 5 】

B*3519 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgcccgcgagtcgaggaaggagccgcccggggcgccAtgga
tagagcaggaggggcccggagtatgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagaggaTgtaTggctgcgacCtggggcc
CgacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgAgct
cctggaccgcccggacacCgcggctcagatcaccagcgcaagtgggaggcggcccgtgTggcggagcagcTgagagcc
tacctggagggccTgtgctgaggaggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号: 7 2 2)

30

【 0 2 2 6 】

B*3520 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgcccgcgagtcgaggaaggagccccggggcgccAtgga
tagagcaggaggggcccggagtatgggaccggaacacacagatctCcaagaccaacAcacagactTaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagaggaTgtaTggctgcgacCtggggcc
CgacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgAgct
cctggaccgcccggacacCgcggctcagatcaccagcgcaagtgggaggcggcccgtgTggcggagcagcTgagagcc
tacctggagggccTgtgctgaggaggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号: 7 2 3)

40

【 0 2 2 7 】

B*3521 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgcccgcgagtcgagggacggagccccggggcgccaTgga
tagagcaggaggggcccggagtatgggaccggaacacacagatctTcaagaccaacAcacagacttaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagaggaTgtaTggctgcgacctggggcc
cgacgggcccctctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccgaacgaggacctgAgct
cctggaccgcccggacacCgcggctcagatcaccagcgcaagtgggaggcggcccgtgaggcggagcagcTgagagcc
tacctggagggccTgtgctgaggaggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgGg (配
列番号: 7 2 4)

【 0 2 2 8 】

B*3522 gctcccactccatgaggatattctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt

50

gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgaggaCggagccccggcgcca t gga
 tagagcaggaggggcccggagta t tggaccggaacacacagatctTcaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagagcattgacggctgcgacgtggggcc
 ggacggcgccctctccgcgggcaTaccagtagcctacgacggcaaggattacatcgccc tgaacgaggacctgAgct
 cctggaccgcgccggacacCgaggctcagatcaccagcgcaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：725)

【0229】

B*3523 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgaggaCggagccccggcgcca t gga
 tagagcaggaggggcccggagta t tggaccggaacacacagatctTcaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacatcatccagagga t g t T g g c t g c g a c c t g g g g c c
 cgacggcgccctctccgcgggcaTaccagtagcctacgacggcaaggattacatcgccc tgaacgaggacctgagct
 cctggaccgcgccggacaccgaggctcagatcaccagcgcaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：726)

10

【0230】

B*3524 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgaggaCggagccccggcgcca t gga
 tagagcaggaggggcccggagta t tggaccggaacacacagatctTcaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacatcatccagagga t g t a t g g c t g c g a c c t g g g g c c
 cgacggcgccctctccgcgggcaTaccagtagcctacgacggcaaggattacatcgccc tgaacgaggacctgagct
 cctggaccgcgccggacaccgaggctcagatcaccagcgcaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagaCacc t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号：727)

20

【0231】

B*3525 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c t c a g t
 gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgccgagtcgagagaggagcccgggcgcc t g g a
 tagagcaggaggggcccggagta t tggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacatcAtccagagga t g t a T g g c t g c g a c C t g g g g c c
 CgacggcgccctctccgcgggcaTaccagtagcctacgacggcaaggattacatcgccc tgaacgaggacctgAgct
 cctggaccgcgccggacacCgaggctcagatcaccagcgcaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagaCacc t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号：728)

30

【0232】

B*3526 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagagaggagccccggcgcca t gga
 tagagcaggaggggcccggagta t tggaccggaacacacagatctgcaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacatcatccagagga t g t a t g g c t g c g a c c t g g g g c c
 cgacggcgccctctccgcgggcaTaccagtagcctacgacggcaaggattacatcgccc tgaacgaggacctgagct
 cctggaccgcgccggacaccgaggctcagatcaccagcgcaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggcCTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：729)

40

【0233】

B*3527 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgaggaCggagccccggcgcca t gga
 tagagcaggaggggcccggagta t tggaccggaacacacagatctTcaagaccaacAcacagacttaccgagagaAcctg
 cggaaacctgcgcggctactacaaccagagcgaggccgggtctcacatcAtccagagga t g t a T g g c t g c g a c C t g g g g c c
 CgacggcgccctctccgcgggcaTaccagtagcctacgacggcaaggattacatcgccc tgaacgaggacctgAgct
 cctggaccgcgccggacacCgaggctcagatcaccagcgcaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggcCTgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：729)

50

tacctggagggccTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号：730)

【0234】

B*3528 atgCGGGTcacGGGCCCCgaaccgtcctcctgctgctctggggggcagtgGCCtgaccgagacctggccg
gctcccactccatgaggtatcttacaccgccaTgtccCGGCCGGCCGGGGagccccgcttcatcgagtgGGctac
gtggacgacaccagttcgtgaggttcgacagcgacgCCGCGagttccgaggaCggagccccgggCGCCAtggaTagagca
ggagggccggagtattgggaccgggaGacacagatctCcaagaccaacAcacagactTaccgagagacctgcggaacc
tgCGGGctactacaaccagagcgaggccgggtctcacatcAtccagaggaTgtaTggctgCGacCtggggccCgacggg
cgctcctccgCGGGcatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgAgctcctggac
cgCGGCGGacacCgCGGctcagatcaccagcgcaagtgggagggcccgTgTggCGGagcagTgagagacctacctgg
agggccTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgGg (配列番号：
731)

10

【0235】

B*3529 gctcccactccatgaggtatcttacaccgccaTgtccCGGCCGGCCGGGGagccccgcttcatcgagtg
ggctacgtggacgacaccagttcgtgaggttcgacagcgacgCCGCGagttccgaggacggagccCggggCGCCAtgga
TagagcaggagggccggagtattgggaccggaacacacagatctTcaagaccaacAcacagactgaccgagagacctg
cggaacctgCGGGctactacaaccagagcgaggccgggtctcacatcAtccagaggaTgtaTggctgCGacCtggggcc
CgacgggCGCCctcctccgCGGGcatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgAgct
cctggaccgCGGCGGacacCgCGGctcagatcaccagcgcaagtgggagggcccgTgTggCGGagcagTgagagcc
tacctggagggccTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号：732)

20

【0236】

B*3530 gctcccactccatgaggtatcttacaccgccaTgtccCGGCCGGCCGGGGagccccgcttcatcgagtg
ggctacgtggacgacaccagttcgtgaggttcgacagcgacgCCGCGagttccgaggacggagccCggggCGCCAtgga
TagagcaggagggccggagtattgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagacctg
cggaacctgCGGGctactacaaccagagcgaggccgggtctcacatcAtccagagcaTgtaCggctgCGacCtggggcc
CgacgggCGCCctcctccgCGGGcatgaccagtCcgctacgacggcaaggattacatcgccccgaacgaggacctgAgct
cctggaccgCGGCGGacacCgCGGctcagatcaccagcgcaagtgggagggcccgTgTggCGGagcagTgagagcc
tacctggagggccTgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgGg (配
列番号：733)

30

【0237】

B*3531 atgCGGGTcacGGGCCCCgaaccgtcctcctgctgctctggggggcaGtgGCCtgaccgagacctggccg
gctcccactccatgaggtatcttacaccgccaTgtccCGGCCGGCCGGGGagccccgcttcatcgagtgGGctac
gtggacgacaccagttcgtgaggttcgacagcgacgCCGCGagttccgaggacggagccCggggCGCCAtggaTagagca
ggagggccggagtattgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagacctgcggaacc
tgCGGGctactacaaccagagcgaggccgggtctcacacctccagagcaTgtaCggctgCGacCtggggccCgacggg
cgctcctccgCGGGcatAaccagtacgctacgacggcaaggattacatcgccccgaacgaggacctgCGctcctggac
cgCGGCGGacacCGGCGGctcagatcaccagcgcaagtgggagggcccgTgTggCGGagcagTgagagacctacctgg
agggcgagtgctggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgCGGacccccaaagaca
cacgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccTggcttctacctgCGgagatcac
actgacctggcagCGGgatggcGaggacaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
tcagaagtgggCagctgtggtggtgcttctggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
aagccccTaccctgagatgggagccgctctcccagTccaccgtccccatcgTgggcatTgtTgctggctggctgctct
a...gcagTgtggtcatcggagctgtggtcgctgctgtagtTgtaggaggaagagCtCaggtgga (配列番号
：734)

40

【0238】

B*3532 gctcccactccatgaggtatcttacaccgccaTgtccCGGCCGGCCGGGGagccccgcttcatcgagtg
ggctacgtggacgacaccagttcgtgaggttcgacagcgacgCCGCGagttccgaggacggagccCggggCGCCAtgga
TagagcaggagggccggagtattgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagacctg
cggaacctgCGGGctactacaaccagagcgaggccgggtctcacacctccagagGatgtaCggctgCGacCtggggcc

50

CgacgggcgccctcctccgcgggcatgaccagtCcgccctacgacggcaaggattacatcgccctgaacgaggacctgAgct
 cctggaccgcgccggacacCgcggtcagatcaccagcgcaagtgggaggcgcccgTggcgagcagcTgagagcc
 tacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
 列番号: 7 3 5)

【 0 2 3 9 】

B*3533 tgaccgagacctggccggctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcgggga
 gccccgttcatcgcagtgggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacgg
 agccccggcgccatggatagagcaggaggggcccggagtttgggaccggaacacacagatctTcaagaccaacacacag
 actTaccgagagacctgCGgaacctgCGcggtactacaaccagagcgaggccgggtctcacatcatccagaggaTgta
 tggctgCGacctggggccCgacggcgccctcctccgcgggcatgaccagtTcgccctacgacggcaaggattacatcgccc
 tgaacgaggacctgAgctcctggaccgcgccggacacCgcggtcagatcaccagcgcaagtgaggagcgcccgTg
 gcgagcagcTgagagccacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagacgct
 gCagcgcgGg (配列番号: 7 3 6)

10

【 0 2 4 0 】

B*3534 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccCggggcgccAtgga
 tagagcaggaggggcccggagtttgggaccggaacacacagatctTcaagaccaacAcacagactTaccgagagacctg
 cggaaacctgCGcggtactacaaccagagcgaggccgggtctcacatcatccagaggaTgtaTggctgCGacCtggggcc
 CgacgggCGccctcctccgcgggcatgaccagtCcgccctacgacggcaaggattacatcgccctgaacgaggacctgAgct
 cctggaccgcgccggacacCgcggtcagatcaccagcgcaagtgaggagcgcccgTggcgagcagcTgagagcc
 tacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
 列番号: 7 3 7)

20

【 0 2 4 1 】

B*3535 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccccggcgccatgga
 tagagcaggaggggcccggagtttgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagacctg
 cggaaacctgCGcggtactacaaccagagcgaggccgggtctcacatcatccagaggaTgtaTggctgCGacctggggcc
 cgacgggCGccctcctccgcgggcatgaccagtCcgccctacgacggcaaggattacatcgccctgaacgaggacctgAgct
 cctggaccgcgccggacaccgCGgtcagatcaccagcgcaagtgaggagcgcccgTggcgagcagcTgagaAcc
 tacctggagggcaCgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
 列番号: 7 3 8)

30

【 0 2 4 2 】

B*3536 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccccggcgccatgga
 tagagcaggaggggcccggagtttgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagacctg
 cggaaacctgCGcgActactacaaccagagcgaggccgggtctcacatcatccagaggaTgtaTggctgCGacctggggcc
 cgacgggCGccctcctccgcgggcatgaccagtTcgccctacgacggcaaggattacatcgccctgaacgaggacctgAgct
 cctggaccgcgccggacaccgCGgtcagatcaccagcgcaagtgaggagcgcccgTggcgagcagcTgagagcc
 tacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
 列番号: 7 3 9)

40

【 0 2 4 3 】

B*3537 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccccggcgccatgga
 tagagcaggaggggcccggagtttgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagacctg
 cggaaacctgCGcgActactacaaccagagcgaggccgggtctcacactTggcagaCgataTggctgCGacCtggggcc
 CgacgggCGccctcctccgcgggcatgaccagtCcgccctacgacggcaaggattacatcgccctgaacgaggacctgAgct
 cctggaccgcgccggacacCgcggtcagatcaccagcgcaagtgaggagcgcccgTggcgagcagcTgagagcc
 tacctggagggccTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgCagcgcgGg (配
 列番号: 7 4 0)

【 0 2 4 4 】

50

B*3538 gctcccactccatgaggtat t tctacaccgcca t g tcccggcccggccgcggggagccccgct tcatcgcagt
 gggctacgtggacgacaccag t t cgtgaggt t cgacagcgacgccgcgag t ccgaggacggagccccgggccc t gga
 tagagcaggaggggcccggag t at tgggaccggaacacacagat c t tcaagaccaacacacagact t accgagagagcct g
 cggaacc t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c a t c c a g a g g a t g t a t g g c t g c g a c c t g g g g c c
 cgacgggccc t c c t c c g c g g g c a t g a c c a g t T c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c C g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g T g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c c T g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a G a c g c t g C a g c g c g c G (配 列
 番 号 : 7 4 1)

【 0 2 4 5 】

B*3539 gctcccactccatgaggtat t tctacaccgcca t g tcccggcccggccgcggggagccccgct tcatcgcagt
 gggctacgtggacgacaccag t t cgtgaggt t cgacagcgacgccgcgag t ccgaggacggagcccCggggcccAt gga
 tagagcaggaggggcccggag t at tgggaccggaacacacagat c t TcaagaccaacAcacagact Taccgagagagcct g
 cggaacc t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a T c a t c c a g a g G a t g t a c g g c t g c g a c g t g g g g c c
 ggacgggccc t c c t c c g c g g g c a t g a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g A g c t
 c c t g g a c c g c g g c g g a c a c C g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g T g g c g g a g c a g c T g a g a g c c
 t a c c t g g a g g g c c T g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c G g (配
 列 番 号 : 7 4 2)

【 0 2 4 6 】

B*3541 gggggcagtgggcc t gaccgagacc t gggccc g tcccactccatgaggtat t tctacaccgcca t g tcccgg
 cccggcccggggagccccgct tcatcgcag tgggctacgtggacgacaccag t t cgtgaggt t cgacagcgacgccgc
 gag t c c g a g g a c g g a g c c c c g g g c g c c a t g g a t a g a g c a g g a g g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t t c a
 a g a c c a a c a c a c a g a c t t a c c g a g a g a g c c t g c g g a a c c t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c
 a t c c a g a g g a t g t a t g g c t g c g a c c t g g g g c c g a c g g g c g c c t c c t c c g c g g g c a t g a c c a g t c c g c c t G c g a c g g c a a
 g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t c c t g g a c c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g
 a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c t a c c t g g a g g g c c t g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c
 g g a a g g a g a c g c t g c a g c g c g g a c c c c c a a g a c a c a c g t g a c c c a c c a c c c g t c t c t g a c c a t g a g g c c a c c c t
 g a g g t g c t g g g c c c t g g g c t t c t a c c c t g c g g a g a t c a c a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a
 c t g a g c t t g t g g a g a c c a g a c c a g c a g g a g a t a g a a c c t t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g
 c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g g c t g c c g a a g c c c c t c a c c c t g a g a t g g g a g c c a t c t t c c c a g t c c a c
 c a t c c c c a t c g t g g g c a t t g t g c t g g c c t g g c t g t c c t (配 列 番 号 : 7 4 3)

【 0 2 4 7 】

B*3542 atgcggg t c a c g g c g c c c c g a a c c c t c c t c c t g c t g c t c t g g g g g c a g t g g c c c t g a c c g a g a c c t g g g c T g
 g c t c c c a c t c c a t g a g g t a t t t c t a c a c c g c c a t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t g g g c t a c
 g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c c c g g g c g c c a t g g a t a g a g c a
 g g a g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t t c a a g a c c a a c a c a c a g a c t t a c c g a g a g a g c c t g c g g a a c c
 t g c g c g g c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c a t c c a g a g g a t g t a t g g c t g c g a c c t g g g g c c c g a c g g g
 c g c c t c c t c c g c g g g c a t g a c c a g t c c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t c c t g g a c
 c g c g g c g g a c a c c g c g g c t c a g a t c a c c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c t a c c t g g
 a g g g c c t g t g c g t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g g a c c c c c a a g a c a
 c a c g t g a c c c a c c a c c c c G t c t c t g a c c a t g a g g c c a c c c t g a g g t g c t g g g c c t g g g c t t c t a c c c t g c g g a g a t c a c
 a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c t g a g c t g t g g a g a c c a g a c c a g c a g g a g a t a g a a c c t
 t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g a t g a g g g c t g c c g
 a a g c c c c t c a c c c t g a g a t g g g a g c c a t c t t c c c a g t c c a c c a t c c c c a t c g t g g g c a t g t g t g c t g g c c t g g c t g t c c t
 a . . . g c a g t t g t g g t c a t c g g a g c t g t g g t c g c t A c t g t g a t g t g t a g g a g g a a g a g C t c a g (配 列 番 号 : 7 4
 4)

【 0 2 4 8 】

B*3543 atgcggg t c a c g g c g c c c c g a a c c g t c c t c c t g c t g c t c t g g g g g c a g t g g c c c t g a c c g a g a c c t g g g c c g
 g c t c c c a c t c c a t g a g g t a t t t c t a c a c c g c c a t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t g g g c t a c
 g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a C g g a g c c c c g g g c g c c a t g g a t a g a g c a
 g g a g g g c c g g a g t a t t g g g a c c g g a a c a c a c a g a t c t T c a a g a c c a a c a c a c a g a c t T a c c g a g a g a g c c t g c g g a a c c

10

20

30

40

50

tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgggcgacacggcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagTggagagcctacctgg
 agggcctgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatctcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 7 4 5)

10

【 0 2 4 9 】

B*3544 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcccagtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagacctg
 cggaaactgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacggcgccctcctccgcgggcatAaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcGgcggacacggcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagTggagagcc
 tactggagggcTgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号 : 7 4 6)

20

【 0 2 5 0 】

B*3545 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcccagtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagacctg
 cggaaactgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagaggatgtatggctgcgacctggggcc
 Cgacggcgccctcctccgcgggcatgaccagtcgacctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcggcgacacCgcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagcggagagcc
 tactggagggcTgtgctggagtGcgtccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号 : 7 4 7)

【 0 2 5 1 】

B*3701 atgcggggtcacggcgccccgaacctcctcctgctgctctggggggcagtgggcctgaccgagacctgggctg
 gctcccactccatgaggtatttccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcccgtgga tagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagaggacctgaggacc
 tgcctccgctactacaaccagagcgaggccgggtctcacacctccagaggatgtCtggctgcgacgtggggccggacggg
 cgctcctccgcggggtataaccagttcgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgggcgacacccgggtcagatcaccagcgcaagtgggagggcccgtagggcggagcaggacagagcctacctgg
 agggcacgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatctcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 7 4 8)

30

40

【 0 2 5 2 】

B*3702 atgcggggtcacggcgccccgaacctcctcctgctgctctggggggcagtgggcctgaccgagacctgggctg
 gctcccactccatgaggtatttccacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggacggagccccgggcccgtgga tagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagactTaccgagagGacctgaggacc
 tgcctccgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtagtggctgcgacgtggggccggacggg
 cgctcctccgcggggtaccaccagGacgctacgacggcaaggattacatcgccctgaacgaggacctgAgctcctggac

50

cgccgcggacacggcggctcagatcaccagcgcaagtgggagcggcccggtggcggagcagcTgagagcctacctgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgacccccaaagaca
 cacgtgaccaccaccccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacacctgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgggtggctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccgtctctccagtcaccgtcccatctgtggcatgtgtgctggcctggctgtctct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgagtgtgtaggaggaagagCtcaggtgga (配列番号
 : 7 4 9)

【 0 2 5 3 】

B*3704 atgcgggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatctccacacctccgtgtcccggcccggcggggagccccgcttcatctcagtgggctac
 gtggacgacaccagttcgtaggttgcacagcagcgcgcgagtcagaggacggagccccgggcgccgtggatagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagaggacctgaggacc
 tgcctccgctactacaaccagagcagggccgggtctcacaccatccagaggatgtCtggctgagcagctggggccggacggg
 cgctcctccgcggtataaccagttcgctacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac
 cgcggggacaccgaggctcagatcaccagcgcaagtgggagcggcccggtggcggagcaggacagagcctacctgg
 agggcacgtgcgtggagtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgggtggctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatctctccagtcaccatcccatctgtggcatgtgtgctggcctggctgtctct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgagtgtgtaggaggaagagCtcaggtgga (配列番号
 : 7 5 0)

【 0 2 5 4 】

B*3705 atgcgggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctg
 gctcccactccatgaggtatctccacacctccgtgtcccggcccggcggggagccccgcttcatctcagtgggctac
 gtggacgacaccagttcgtaggttgcacagcagcgcgcgagtcagaggacggagccccgggcgccgtggatagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagaggacctgaggacc
 tgcgcggctactacaaccagagcagggccgggtctcacaccatccagaggatgtCtggctgagcagctggggccggacggg
 cgctcctccgcggtataaccagttcgctacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac
 cgcggggacaccgaggctcagatcaccagcgcaagtgggagcggcccggtggcggagcaggaCagagcctacctgg
 agggcaCgtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgagg (配列番号 :
 7 5 1)

【 0 2 5 5 】

B*3801 atgctggtcatggcgccccgaacctcctcctgctgctctcgccggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatctctacacctccgtgtcccggcccggcggggagccccgcttcatctcagtgggctac
 gtggacgacacgcagttcgtaggttgcacagcagcgcgcgagtcagagagaggacccggggcgccgtggatagagca
 ggaggggcccgaataattgggaccggaacacacagatctgcaagaccaacacacagacttaccgagagaacctgaggatCg
 cgctcCgctactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgagcagctggggccggacggg
 cgctcctccgcgggcataaccagttcgctacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac
 cgcggggacaccgaggctcagatcaccagcgcaagtgggagcggcccggtggcggagcagcTgagaAcctacctgg
 agggcacgtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatCagaacct
 tccagaagtgggcagctgtgggtggctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccAtctctccagtcaccgtcccatctgtggcatgtgtgctggcctggctgtctct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgagtgtgtaggaggaagagttaggtgga (配列番号
 : 7 5 2)

【 0 2 5 6 】

B*380201 atgctggtcatggcgccccgaacctcctcctgctgctctcgccggccctggccctgaccgagacctgggc

10

20

30

40

50

cggtcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggct
 acgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgcgggcgccgtgga tagag
 caggaggggcccgaata t tgggaccggaacacacagatctgcaagaccaacacacagacttaccgagagaacctgcgcaC
 cgctcCgctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacg
 ggcgctcctccgcgggcataaaccagttcgctacgacggcaaggtacatcgccctgaacgaggacctgagctcctgg
 accgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcgagcagcTgagaAcc tacct
 ggagggcacgtgctggagtggctccgcagatactggagaacgggaaggagacgctgcagcgcgcgacccccaaaga
 caca t gtagccaccaccctctctgacctgaggccacctgaggtgctgggccc tgggttctacctgcgagatc
 aactgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagaCagaac
 ct tccagaagtgggcagctgtgggtggctctggagaagagcagagatacaca t gcatgtacagcatgaggggtgc
 cgaagccccctaccctgagatgggagccAtct tcccagttccaccgtccccatcg tgggcatgtgtgctggcctggctgtc
 cta. . .gcagttgtggtcatcggagctgtggtcgctgctgtgatgttaggaggaagagttcaggtgga (配列番
 号 : 7 5 3)

10

【 0 2 5 7 】

B*380202 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctca
 gtgggtacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgcgggcgccgtg
 gatagacgaggagggcccgaata t tgggaccggaacacacagatctgcaagaccaacacacagacttaccgagagaacc
 tgcgcaccgctccgctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtgggg
 ccggacggcgctcctccgcgggcataaaccagttcgctacgacggcaaggtacatcgccctgaacgaggacctgag
 ctctggacAgcggcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcgagcagctgagaa
 cctacctggagggcacgtgctggagtggctccgcagatactggagaacgggaaggagacgctgcagcgcgcg (配
 列番号 : 7 5 4)

20

【 0 2 5 8 】

B*3803 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggagggcccgaata t tgggaccgggagacacagatctCcaagaccaacacacagactgaccgagagacctg
 cgcaCcgctcCgctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacggcgctcctccgcgggcataAaccagttcgctacgacggcaaggtacatcgccctgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcgagcagcTgagaAcc
 tacctggagggcaCgtgctggagtggctccgcagatactggagaacgggaaggagacgctgcagcgcgGg (配
 列番号 : 7 5 5)

30

【 0 2 5 9 】

B*3804 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggagggcccgaata t tgggaccgggaGacacagatctgcaagaccaacacacagacttaccgagagaAcctg
 cgcaCcgctcCgctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacggcgctcctccgcgggcataAaccagttcgctacgacggcaaggtacatcgccctgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcgagcagcTgagaAcc
 tacctggagggcaCgtgctggagtggctccgcagatactggagaacgggaaggagacgctgcagcgcgGg (配
 列番号 : 7 5 6)

40

【 0 2 6 0 】

B*3805 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgcgggcgccgtgga
 tagagcaggagggcccgaata t tgggaccggaacacacagatctgcaagaccaacacacagacttaccgagagaacctg
 cggatCcgctcCgctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacggcgctcctccgcgggcataaaccagttcgctacgacggcaaggtacatcgccctgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcgagcagcTgagaAcc
 tacctggagggcacgtgctggagtggctccgcagatactggagaacgggaaggagacgctgcagcgcgGg (配
 列番号 : 7 5 6)

50

agaacctccagaagtgggcagctgtgggtgccttctggagaagagcagagatacacatgccatgtacagcatgaggg
gctgccgaagcccctcaccctgagatggg (配列番号: 7 5 7)

【 0 2 6 1 】

B*3806 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgaggacggagccccgggcccattgga
tagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
cggaTcgcgctcCgctactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctcctccgcccgaAaccagttcgcttacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcccggacaccgcccgtcagatcacccagcgaagtgggagggcccgtgtggcggagcagcTgagaAcc
tacctggagggcaCgtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
列番号: 7 5 8)

10

【 0 2 6 2 】

B*3807 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgaggacggagccccgggcccattgga
tagagcaggaggggcccggGatattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
cggaTcgcgctcCgctactacaaccagagcagggccgggtctcacacctccagaggaTgtacggctgcgacgtggggcc
ggacgggcccctcctccgcccgaAaccagttcgcttacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcccggacaccgcccgtcagatcacccagcgaagtgggagggcccgtgtggcggagcagcTgagaacc
tacctggagggcacgtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcgg (配
列番号: 7 5 9)

20

【 0 2 6 3 】

B*3808 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagcccgggcccattgga
tagagcaggaggggcccggAatattgggaccggaacacacagatctGcaagaccaacacacagacttaccgagagaacctg
cgcaccgcccctcctccgcccgaAaccagttcgcttacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcccggacaccgcccgtcagatcacccagcgaagtgggagggcccgtgtggcggagcagcTgagaacc
tacctggagggcATgtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
列番号: 7 6 0)

30

【 0 2 6 4 】

B*3809 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagcccgggcccattgga
tagagcaggaggggcccggAatattgggaccggaacacacagatctGcaagaccaacAcacagactgaccgagagacctg
cggaTcgcgctcCgctactacaaccagagcagggccgggtctcacacctccagaggaTgtacggctgcgacgtggggcc
ggacgggcccctcctccgcccgaAaccagttcgcttacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcccgggGaccgcccgtcagatcacccagcgaagtgggagggcccgtgtggcggagcagcTgagaacc
tacctggagggcacgtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcg (配列
番号: 7 6 1)

【 0 2 6 5 】

B*390101 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccctggccctgaccgagacctgggc
cggctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggt
acgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagcccgggcccattgga
tagagcaggaggggcccggAatattgggaccggaacacacagatctGcaagaccaacAcacagactgaccgagagacctg
cggaTcgcgctcCgctactacaaccagagcagggccgggtctcacacctccagaggaTgtacggctgcgacgtggggcc
ggacgggcccctcctccgcccgaAaccagttcgcttacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcccgggGaccgcccgtcagatcacccagcgaagtgggagggcccgtgtggcggagcagcTgagaAcc
tacctggagggcacgtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcgacccccaaaga
cacaTgtgaccaccaccctctctgacctgaggccacctgaggtgctgggcccTgggtcttacctgctggagatc
acactgacctggcagcgggagggcaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagaCagaac
cttccagaagtgggcagctgtggtgggtgccttctggagaagagcagagatacacatgccatgtacagcatgaggggctgc

40

50

cgaagccccaccctgagatgggagccAtcttcccagtcaccgcccccatcgtgggcatgtgtgctggcctggctgtc
cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagtcagggtgga (配列番
号: 7 6 2)

【0 2 6 6】

B*390103 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggc
cggctcccactccatgaggtatcttacacctccgtgtcccggccccggcggggagccccgcttcatctcagtgggct
acgtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcgggcccgtgga tagag
caggaggggcccgaatatgggaccggaacacacagatctGcaagaccaacacacagactgaccgagagagcctgcggaa
cctgctgctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgagcgtggggccggacg
ggcgcctcctccgccccgataaccagttcgcttacgacggcaaggattacatcgccccgaacgaggacctgagctcctgg
accgccccggacaccgccccagatcaccagcgcaagtgaggagggccccgtgtggcggagcagctgagaacctacct
ggagggcacgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaaga
cacaatgtgaccaccacccatctctgacctgaggccacctgaggtgctgggccccgggcttctacctgctggagatc
acactgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagaCagaac
cttcagaagtgggcagctgtggtgggctctggagaagagcagagatacaca tgcctgtacagcatgaggggctgc
cgaagccccaccctgagatgggagccatcttcccagtcaccgcccccatcgtgggcatgtgtgctggcctggctgtc
cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcagggtgga (配列番
号: 7 6 3)

【0 2 6 7】

B*390104 gctcccactccatgaggtatcttacacctccgtgtcccggccccggcggggagccccgcttcatctca
gtgggtacgtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcgggcccgtg
gatagagcaggaggggcccAgaatatgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcc
tgcggaacctgctgctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgagcgtgggg
ccggacgggcccctcctccgccccgataaccagttcgcttacgacggcaaggattacatcgccccgaacgaggacctgag
ctcctggaccgccccggacaccgccccagatcaccagcgcaagtgaggagggccccgtgtggcggagcagctgagaa
cctacctggagggcacgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcggg (配
列番号: 7 6 4)

【0 2 6 8】

B*390201 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggc
cggctcccactccatgaggtatcttacacctccgtgtcccggccccggcggggagccccgcttcatctcagtgggct
acgtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcgggcccgtgga tagag
caggaggggcccgaatatgggaccgggagacacagatctCcaagaccaacacacagactgaccgagagagcctgcggaa
cctgctgctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgagcgtggggccggacg
ggcgcctcctccgccccgataaccagttcgcttacgacggcaaggattacatcgccccgaacgaggacctgagctcctgg
accgccccggacaccgccccagatcaccagcgcaagtgaggagggccccgtgtggcggagcagctgagaacctacct
ggagggcacgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaaga
cacaatgtgaccaccacccatctctgacctgaggccacctgaggtgctgggccccgggcttctacctgctggagatc
acactgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagaCagaac
cttcagaagtgggcagctgtggtgggctctggagaagagcagagatacaca tgcctgtacagcatgaggggctgc
cgaagccccaccctgagatgggagccatcttcccagtcaccgcccccatcgtgggcatgtgtgctggcctggctgtc
cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcagggtgga (配列番
号: 7 6 5)

【0 2 6 9】

B*390202 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggc
cggctcccactccatgaggtatcttacacctccgtgtcccggccccggcggggagccccgcttcatctcagtgggct
acgtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcgggcccgtgga tagag
caggaggggcccgagtatgggaccgggagacacagatctCcaagaccaacAcacagactgaccgagagagcctgcggaa
cctgctgctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgagcgtggggccggacg
ggcgcctcctccgccccgataaccagttcgcttacgacggcaaggattacatcgccccgaacgaggacctgagctcctgg
accgccccggacaccgccccagatcaccagcgcaagtgaggagggccccgtgtggcggagcagctgagaacctacct
ggagggcacgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaaga
cacaatgtgaccaccacccatctctgacctgaggccacctgaggtgctgggccccgggcttctacctgctggagatc
acactgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagaCagaac
cttcagaagtgggcagctgtggtgggctctggagaagagcagagatacaca tgcctgtacagcatgaggggctgc
cgaagccccaccctgagatgggagccatcttcccagtcaccgcccccatcgtgggcatgtgtgctggcctggctgtc
cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcagggtgga (配列番
号: 7 6 5)

10
20
30
40
50

ggagggcacgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgacccccaaaga
 cacatgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgaggagatc
 acactgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagaCagaac
 ctccagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgcatgtacagcatgaggggctgc
 cgaagccccaccctgagatgggagccAtcttcccagtcaccgtccccatcgtagggcatgtgtgctggcctggctgtc
 cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配列番
 号: 766)

【0270】

B*3903 gtctcctgctgctctcggcggccccggccctgaccgagacctgggcccgtcccactccatgaggtattct
 acacctccgtgtcccggccccggcggggagccccgcttcatctcagtagggctacgtggacgacacgcagttcgtgagg
 ttcgacagcgcgcccgcgagtcggagagaggagccgcccggcgtggatagagcaggagggccggaaatatgggaccg
 gaacacacagatctGcaagaccaacAcacagactgaccgagagagcctgcggaacctgcgcccgtactacaaccagagcg
 aggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacgggcccctctccgcccggcataaaccag
 ttgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctggaccgcccggacaccgcccctcagat
 caccagcgaagtgggagggccccgtgtggcggagcagcTgagaAcctacctggagggcacgtgctgtaggtggctcc
 gcagatactggagaacgggaaggagacgctgcagcgcgacccccaaagacacatgtgaccaccaccatctct
 gaccatgagggccacctgaggtgctgggcccgggcttctacctgaggagatcacactgacctggcagcgggatggcga
 ggaccaaactcaggacaccgagcttgggagaccagaccagcaggagaCagaacctccagaagtgggcagctgtggtgg
 tgcttctggagaagagcagagatacacatgcatgtacagcatgaggggctgccgaagccccaccctgagatgggag
 ccAtcttcccagtcaccgtccccatcgtagggcatgtgtgctggcctggctgtccta...gcagttgtggtcatcggagc
 tgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配列番号: 767)

10

20

【0271】

B*3904 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccAtgtcccggccccggcggggagccccgcttcatctcagtagggctac
 gtggacgacacgcagttcgtgaggttcgacagcgcgcccgcgagtcggagagaggagccgcccggcgtggatagagca
 ggagggccggaaatatgggaccggaacacacagatctGcaagaccaacAcacagactgaccgagagagcctgcggaacc
 tgcgcccgtactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcccggcataaaccagttcgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcccggacaccgcccctcagatcaccagcgaagtgggagggccccgtgtggcggagcagcTgagaAcctacctgg
 agggcacgtgctgtaggtggctccgcagatactggagaacgggaaggagacgctgcagcgcgacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagaCagaacct
 tccagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgcatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccAtcttcccagtcaccgtccccatcgtagggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配列番号
 : 768)

30

【0272】

B*3905 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacacctccgtgtcccggccccggcggggagccccgcttcatctcagtagggctac
 gtggacgacacgcagttcgtgaggttcgacagcgcgcccgcgagtcggagagaggagccgcccggcgtggatagagca
 ggagggccggaaatatgggaccggaacacacagatctGcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcccgtactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcccggcataaaccagttcgcttacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcccggacaccgcccctcagatcaccagcgaagtgggagggccccgtgtggcggagcagcTgagaAcctacctgg
 agggcacgtgctgtaggtggctccgcagatactggagaacgggaaggagacgctgcagcgcgacccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagaCagaacct
 tccagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgcatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccAtcttcccagtcaccgtccccatcgtagggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配列番号

40

50

: 7 6 9)

【 0 2 7 3 】

B*390601 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggc
 cggctcccactccatgaggtatcttacacctccgtgtcccggccccggccgaggagccccgcttcatctcagtgggct
 acgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgccccgccccgtgga
 tagagcaggagggccggaatatgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcc
 tgcggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacttggcagaCGatgtacggctg
 cgacgtggggccggacggcgccctcctccgccccgataaccagttcgcttacgacggcaaggattacatcgccc
 tgaacgaggacctgagctcctggaccgccccgacaccgccccctcagatcaccagcgcaagtgggaggccg
 gccgtgtggcggagcagcTgagaAccctggagggcacgtgctggagtggtccgcagataacctggagaac
 gggaaggagacgctgcagcgcgcccccaaga caca t g t g a c c c a c c c c a t c t c t g a c c a t g a g g c c a c c t g a g g t g c t g g g c c c t g g g c t t c t a c c c t g c g g a g a t c
 a c a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c c g a g c t t g t g g a g a c c a g a c c a g c a g g a g a C a g a a c
 c t t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g g c t g c
 c g a a g c c c c t c a c c c t g a g a t g g g a g c c A t c t t c c a g t c c a c c g t c c c c a t c g t g g g c a t g t t g c t g g c c t g g c t g t c
 c t a . . . g c a g t t g t g g t c a t c g g a g c t g t g g t c g c t g c t g t g a t g t g t a g g a g g a a g a g t t c a g g t g g a (配 列 番
 号 : 7 7 0)

10

【 0 2 7 4 】

B*390602 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggc
 cggctcccactccatgaggtatcttacacctccgtgtcccggccccggccgaggagccccgcttcatctcagtgggct
 acgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgccccgccccgtgga
 tagagcaggagggccggaatatgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcc
 tgcggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacttggcagaCgatgtTggctg
 cgacgtggggccggacggcgccctcctccgccccgataaccagttcgcttacgacggcaaggattacatcgccc
 tgaacgaggacctgagctcctggaccgccccgacaccgccccctcagatcaccagcgcaagtgggaggccg
 gccgtgtggcggagcagcTgagaAccctggagggcacgtgctggagtggtccgcagataacctggagaac
 gggaaggagacgctgcagcgcgcccccaaga caca t g t g a c c c a c c c c a t c t c t g a c c a t g a g g c c a c c t g a g g t g c t g g g c c c t g g g c t t c t a c c c t g c g g a g a t c
 a c a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c c g a g c t t g t g g a g a c c a g a c c a g c a g g a g a C a g a a c
 c t t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g g c t g c
 c g a a g c c c c t c a c c c t g a g a t g g g a g c c A t c t t c c a g t c c a c c g t c c c c a t c g t g g g c a t g t t g c t g g c c t g g c t g t c
 c t a . . . g c a g t t g t g g t c a t c g g a g c t g t g g t c g c t g c t g t g a t g t g t a g g a g g a a g a g t t c a g g t g g a (配 列 番
 号 : 7 7 1)

20

30

【 0 2 7 5 】

B*3907 ggttcgacagcgacgcccgagttccgagagaggagccgccccgccccgtgga tagagcaggaggggccccggaAta
 t t g g g a c c g g a a c a c a c a g a t c t g c a a g a c c a a c a c a c a g a c t t a c c g a g a g a g c c t g c g g a a c c t g c g c g g c t a c t a c a
 a c c a g a g c g a g g c c g g g t c t c a c a c c c t c c a g a g g a t g t a c g g c t g c g a c g t g g g g c c g g a c g g g c g c c t c c t c c g c g g g
 c a t g a c c a g t C g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t c c t g g a c c g g g c g g a c a c c g c
 g g c t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c T g a g a A c c t a c c t g g a g g g c a C g t g c g t g g
 a g t g g c t c c g c a g a t a c c t g (配 列 番 号 : 7 7 2)

【 0 2 7 6 】

B*3908 atgctggtcatggcgccccgaaccgtcctcctgctgctctcggcggccccggccctgaccgagacctgggccc
 gctcccactccatgaggtatcttacacctccgtgtcccggccccggccgaggagccccgcttcatctcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgccccgccccgtgga
 tagagcaggagggccggaatatgggaccgggagacacagatctCcaagaccaacacacagactTaccgagagagcc
 tgcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctg
 cgacgtggggccggacggcgccctcctccgccccgataaccagttcgcttacgacggcaaggattacatcgccc
 tgaacgaggacctgagctcctggaccgccccgacaccgccccctcagatcaccagcgcaagtgggaggccg
 gccgtgtggcggagcagcgggagaAccctggagggcacgtgctggagtggtccgcagataacctggagaac
 gggaaggagacgctgcagcgcgcccccaagaca c a t g t g a c c c a c c c c a t c t c t g a c c a t g a g g c c a c c t g a g g t g c t g g g c c c t g g g c t t c t a c c c t g c g g a g a t c a c
 a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c c g a g c t t g t g g a g a c c a g a c c a g c a g g a g a C a g a a c c t
 t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g g c t g c c g

40

50

aagccccaccctgagatgggagccAtcttcccagtcaccgcccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagtgtggtcatcggagctgtggtcgctgctgtgagtgttaggaggaagagttcaggtgga (配列番号
: 773)

【0277】

B*3909 atgctggtcatggcgccccgaaccgtcctcctgctgctcctcgggccctggccctgaccgagacctgggccc
gctcccactccatgaggtatcttacacctccgtgtcccggcccgccgcccggggagccccgcttcatctcagtgggtac
gtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcccggcgccgtgga tagagca
ggaggggcccgaatatgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctgcggaacc
tgcgcccgtactacaaccagagcgaggccgggtctcacacctccagaggatgtCtggctgacgctggggccggacggg
cgctcctccgcccgcataaccagttcgctacgacggcaaggattacatcgccc tgaacgaggacctgagctcctggac
cgcccggacaccgcccgtcagatcaccagcgcaagtgggagggcccgctgtggcggagcagctgagaacctacctgg
agggcacgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggccc tgggcttctacctgcccggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagaCagaacct
tccagaagtgggcagctgtggtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
aagccccaccctgagatgggagccAtcttcccagtcaccgcccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagtgtggtcatcggagctgtggtcgctgctgtgagtgttaggaggaagagttcaggtgga (配列番号
: 774)

10

【0278】

B*3910 atgctggtcatggcgccccgaaccgtcctcctgctgctcctcgggccctggccctgaccgagacctgggccc
gctcccactccatgaggtatcttacacctccgtgtcccggcccgccgcccggggagccccgcttcatctcagtgggtac
gtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcccggcgccgtgga tagagca
ggaggggcccggagtattgggaccggaacacacagatctacaagaccaacAcacagactgaccgagagagcctgcggaacc
tgcgcccgtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgacgctggggccggacggg
cgctcctccgcccgcataaccagttcgctacgacggcaaggattacatcgccc tgaacgaggacctgagctcctggac
cgcccggacaccgcccgtcagatcaccagcgcaagtgggagggcccgctgtggcggagcagctgagaAccacctgg
agggcacgtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggccc tgggcttctacctgcccggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagaCagaacct
tccagaagtgggcagctgtggtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
aagccccaccctgagatgggagccAtcttcccagtcaccgcccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagtgtggtcatcggagctgtggtcgctgctgtgagtgttaggaggaagagttcaggtgga (配列番号
: 775)

20

30

【0279】

B*3911 tacacctccgtgtcccggcccggccgcccggggagccccgcttcatctcagtgggtacgtggacgacacgcagtt
cgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcccggcgccgtgga tagagcaggaggggcccgaAtat
tgggaccggaacacacagatctGcaagaccaacacacagactTaccgagagagcctgcggaacctgcccggctactaca
ccagagcgaggccgggtctcacacctccagagGatgtacggctgacgctggggccggacgggcccctcctccgccc
ataaccagttcgctacgacggcaaggattacatcgccc tgaacgaggacctgagctcctggaccgcccggacaccg
gctcagatcaccagcgcaagtgggagggcccgctgtggcggagcagcggagaAccacctggagggcacgtgctgga
gtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagacacatgtgaccaccacc
ccatctctgaccatgaggccacctgaggtgctgggccc tgggcttctacctgcccggagatcacactgacctggcagcgg
gatggcgaggaccaaactcaggacacCgagctgtggagaccag (配列番号 : 776)

40

【0280】

B*3912 gctcccactccatgaggtatctcgacaccgctgtcccggcccggccgaggAgagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagccgcccggcgccgtgga
tagagcaggaggggcccgaatatgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctg
cggaaacctgcccggctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgacgctggggcc
ggacgggcccctcctccgcccgcataaccagttcgctacgacggcaaggattacatcgccc tgaacgaggacctgagct
cctggaccgcccggacaccgcccgtcagatcaccagcgcaagtgggagggcccgctgtggcggagcagctgagaacc

50

tacctggagggcacgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgCagcgcgcg (配
列番号: 777)

【0281】

B*3913 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga
tagagcaggaggggcccggagtattggaccgggagacacagatctCcaagaccaacacacagactTaccgagagacctg
cgaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacggcgccctcccgcgggcatAaccagTcgctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcgcgacaccgcggtcagatcacccagcgcaagtgaggagcgcccggtgTggcgagcagcTgagaAcc
tacctggagggcaCgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

10

列番号: 778)

【0282】

B*3914 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga
tagagcaggaggggcccggAatattggaccggaacacacagatctGcaagaccaacAcacagactgaccgagagacctg
cgaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacggcgccctcccgcgggcatAaccagTcgctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcgcgacaccgcggtcagatcacccagcgcaagtgaggagcgcccggtgTggcgagcagcTgagaAcc
tacctggagggcaCgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

20

列番号: 779)

【0283】

B*3915 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga
tagagcaggaggggcccggAatattggaccggaacacacagatctGcaagaccaacAcacagactgaccgagagacctg
cgaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacggcgccctcccgcgggcatgaccagTcgctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcgcgacaccgcggtcagatcacccagcgcaagtgaggagcgcccggtgTggcgagcagcTgagaAcc
tacctggagggcaCgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

30

列番号: 780)

【0284】

B*3916 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
gggtacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga
tagagcaggaggggcccggagtattggaccggaacacacagatctacaagaccaacacacagactgaccgagagacctg
cgaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccaCaggatgtacggctgcgacgtggggcc
ggacggcgccctcccgcgggcataaccagTcgctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgcgcgacaccgcggtcagatcacccagcgcaagtgaggagcgcccggtgTggcgagcagcTgagaacc
tacctggagggcacgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配

列番号: 781)

【0285】

B*3917 atgctggtcatggcgccccgaaccgtcctcctgctgctctcgcgggccctggccctgaccgagacctgggccc
gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagtgggtac
gtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgcgggcgccgtgga tagagca
ggaggggcccggagtattggaccggaacacacagatctacaagaccaacacacagactgaccgagagacctgcggaacc
tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcccggacggg
cgccctcccgcggtataaccagTAgcctacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac
cgcgggcgacaccgcggtcagatcacccagcgcaagtgaggagcgcccggtgTggcgagcagcTgagaAcctacctgg
agggcaCgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配列番号:

40

782)

【0286】

B*3918 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt

50

gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggagggccggaAtattgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctg
 cggaaacctgcgaggctactacaaccagagcgaggccgggtctcacacctccagaggaTgtacggctgcgacgtggggcc
 ggacggcgccctctccgagggaataaccagttcgccctacgacggcaaggattacatcgcccTgaacgaggacctgagct
 cctggaccgcgccgacacggcggtcagatcacccagcgcaagtgggaggcgcccgTgaggcgagcagTggagaAcc
 tacctggagggcaCgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：783)

【0287】

B*3919 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccggggagccccgcttcatctcag
 tgggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccccgggcccAtgga
 tagagcaggagggccggagatttgggaccggaacacacagatctGcaagaccaacAcacagactgaccgagagagcctg
 cggaaacctgcgaggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacggcgccctctccgagggaataaccagttcgccctacgacggcaaggattacatcgcccTgaacgaggacctgagct
 cctggaccgcgccgacacggcggtcagatcacccagcgcaagtgggaggcgcccgTggcgagcagcTgagaAcc
 tacctggagggcaCgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：784)

【0288】

B*3920 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccggggagccccgcttcatctcag
 tgggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggagggccggagatttgggaccggaacacacagatctacaagaccaacacacagacttaccgagagaAcctg
 cggaaacctgcgaggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacggcgccctctccgagggaataaccagttcgccctacgacggcaaggattacatcgcccTgaacgaggacctgagct
 cctggaccgcgccgacacggcggtcagatcacccagcgcaagtgggaggcgcccgTggcgagcagcTgagaAcc
 tacctggagggcaCgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：785)

【0289】

B*3922 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccggggagccccgcttcatctcag
 tgggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggagggccggagatttgggaccgggagacacagatctGcaagaccaacAcacagactgaccgagagagcctg
 cggaaacctgcgaggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacggcgccctctccgagggaataaccagttcgccctacgacggcaaggattacatcgcccTgaacgaggacctgagct
 cctggaccgcgccgacacggcggtcagatcacccagcgcaagtgggaggcgcccgTggcgagcagcTgagaAcc
 tacctggagggcaCgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：786)

【0290】

B*3923 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccggggagccccgcttcatctcag
 tgggctacgtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctgga
 tagagcaggagggccggagatttgggaccgggagacacagatctccaagaccaacacacagactgaccgagagagcctg
 cggaaacctgcgaggctactacaaccagagcgaggccgggtctcacacctccagaggaTgtacggctgcgacgtggggcc
 ggacggcgccctctccgagggaataaccagttcgccctacgacggcaaggattacatcgcccTgaacgaggacctgagct
 cctggaccgcgccgacacggcggtcagatcacccGcgcaagtgggaggcgcccgTggcgagcagcTgagaacc
 tacctggagggcacgtgctgaggaggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：787)

【0291】

B*3924 atgctggtcatggcggccccgaaccgtcctctctgctctcgccggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacacctccgtgtcccggccccggccggggagccccgcttcatctcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgccgagtcgagagaggagccgccccgctggaTagagca
 ggagggccggaaatttgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctgcggaacc
 tgcgaggctactacaaccagagcgaggccgggtctcacacctccagagcaCgtacggctgcgacgtggggccggacggg
 cgccctctccgagggaataaccagttcgccctacgacggcaaggattacatcgcccTgaacgaggacctgagctcctggac

10

20

30

40

50

cgcgccggacaccgcccgcagatcaccagcgcaagtgggagcggcccggtggcggagcagctgagaacctacctgg
 agggcacgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgaccgccccaaagaca
 catgtgaccaccaccatctctgaccatgaggccacctgaggctgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacaccgagcttgtggagaccagaccagcaggagacagaacct
 tcagaagtgggcagctgtgggtggctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatctctccagctccaccgtccccatcgtgggcatgtgtgctggcctggctgtct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配列番号
 : 7 8 8)

【 0 2 9 2 】

B*3926 gctcccactccatgaggtatctctacacctccgtgtcccggcccggccgcccgggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgcgcccgcgagtcgagagaggagccgcccggcggctgga
 tagagcaggagggccggaaatatgggaccggaacacacagatctgcaagaccaacacacagactgaccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctctccgcccggcataaaccagttcgcttacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcccggacaccgcccctcagatcaccagcgcgaagtgggagggcccctTgtggcggagcagctgagaacc
 tacctggagggcacgtgctgaggtggctccgcagataacctggagaacgggaaggagacgctgcagcgcg (配
 列番号 : 7 8 9)

【 0 2 9 3 】

B*3927 gctcccactccatgaggtatctctacacctccgtgtcccggcccggccgcccgggagccccgcttcatctcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgcgcccgcgagtcgagagaggagccgcccggcggctgga
 tagagcaggagggccggaaatatgggaccggaacacacagatctgcaagaccaacAcacagactgaccgagTgagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctctccgcccggcataaaccagttcgcttacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcccggacaccgcccctcagatcaccagcgcgaagtgggagggcccctTgtggcggagcagctgagaAcc
 tacctggagggcaCgtgctgaggtggctccgcagataacctggagaacgggaaggagacgctgCagcgcGg (配
 列番号 : 7 9 0)

【 0 2 9 4 】

B*400101 atgcccgggtcacggcaccggaaccgtcctcctgctgctctcggcggcccggcccctgaccgagacctgggc
 Gggctcccactccatgaggtatctccacaccgccaatgtcccggcccggccgcccgggagccccgcttcatcaccgtgggct
 acgtggacgacacgcgtgtcgtgaggttcgacagcgcgcccacagagtcgaggaaggagccgcccggcggcctgga
 tagagcaggagggccggagttatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctctccgcccggcataaaccagttacgcttacgacggcaaggattacatcgcccgaacgaggacctg
 cgcctctggaccgcccggacaccgcccctcagatctcccagcgcgaagtgggagggcccctTgtggcggagcagctg
 agagacctacctggagggcagctgctgaggtggctccgcagataacctggagaacgggaaggacaagctggagcgcgct
 gacccccaaagacacagctgaccaccaccatctctgaccatgaggccacctgaggctgggcccgggtttctacctg
 cggagatcacactgacctggcagcgggatggcgaggacaaactcaggacactgagcttgtggagaccagaccagcaggaga
 tagaaccttcagaagtgggcagctgtgggtggctctctggagaagagcagagatacacatgccatgtacagcatgagggg
 ctgccggaagccccaccctgagatgggagccgtctctccagctccaccgtccccatcgtgggcatgtgtgctggcctgg
 ctgtccta...gcagtgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配
 列番号 : 7 9 1)

【 0 2 9 5 】

B*400102 atgcccgggtcacggcaccggaaccgtcctcctgctgctctcggcggcccggcccctgaccgagacctgggc
 cggctcccactccatgaggtatctccacaccgccaatgtcccggcccggccgcccgggagccccgcttcatcaccgtgggct
 acgtggacgacacgcTgtcgtgaggttcgacagcgcgcccAcgagtcgaggaAaggagccgcccggcggcctgga
 tagagcaggagggccggagttatgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaaacctgcccggctactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcccctctccgcccggcataAaccagttacgcttacgacggcaaggattacatcgcccgaacgaggacctg
 cgcctctggaccgcccggacaccgcccctcagatctcccagcgcgaagtTggagggcccctTgtggcggagcagctg
 agagacctacctggagggcagctgctgaggtggctccgcagataacctggagaacgggaaggacaagctggagcgcgct
 gacccccaaagacacagctgaccaccaccatctctgaccatgaggccacctgaggctgggcccgggtttctacctg
 cggagatcacactgacctggcagcgggatggcgaggacaaactcaggacactgagcttgtggagaccagaccagcaggaga
 tagaaccttcagaagtgggcagctgtgggtggctctctggagaagagcagagatacacatgccatgtacagcatgagggg
 ctgccggaagccccaccctgagatgggagccgtctctccagctccaccgtccccatcgtgggcatgtgtgctggcctgg
 ctgtccta...gcagtgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配
 列番号 : 7 9 1)

10

20

30

40

50

cacacgtgaccaccaccccatctctgaccatgaggccaccctgaggctgctgggcccctgggtttctaccctgctggagatc
 acactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtggtggcgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgc
 cgaagcccctcaccctgagatgggagccgtctctccagctccaccgtccccatcgtgggcatgtgtgctggcctggctgtc
 cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagttcaggtgga (配列番
 号: 792)

【0296】

B*400103 gctcccactccatgaggtaattcCacaccgccaagtcccggcccggccgcggggagccccgcttcatcacc
 gtgggtacgtggacgacacgcTgttctgtagggttcgacagcgacgccAcgagtcgaggAaggagccgcccggcgctg
 gatagagcaggaggggcccggagataggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcc
 tgcggaacctgctgaggctactacaaccagagcagggccgggtctcacaccctccagagGatgtacggctgctgacgtggg
 ccggacgggcccctcctccgcccgaatAaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgctg
 ctctggaccgcccggacacggcggctcagatctcccagcgaagtTggaggcggcccgtgTggcggagcagctgagag
 cctaccTggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggacaagctggagcgcgtgacccc
 ccaaagacacagtgaccaccaccccatctctgaccaTgaggccaccctgagggtgctgggcccctgggtttctaccctgc
 ggagatcacactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttctggagaccagaccagcaggag
 atagaacctccagaagtgggcagctgtggtggcgctctctggagaagagcagagatacacatgccatgtacagcatgag
 gggctgcccgaagcccctcaccctgagatggg (配列番号: 793)

【0297】

B*4002 atgcccgtcacggcgccccgaaccctcctcctgctgctctggggggcagtgcccctgaccgagacctgggcTg
 gctcccactccatgaggtaattccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgtgggtac
 gtggacgacacgcgttctgtagggttcgacagcgacgccacgagtcgagggaaggagccgcccggcgccatggaTgagca
 ggaggggcccggagataggaccgggagacacagatctCcaagaccaacacacagactTaccgagagagccTgcggaacc
 tgcgaggctactacaaccagagcagggccgggtctcacaccctccagagcatgtacggctgctgacgtggggcccggacggg
 cgctcctccgcccgaatAaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgctgctcctggac
 cgccgcccacacggcggctcagatcaccagcgcgaagtgggagggcccgtgTggcggagcagctgagagcctaccTgg
 agggcgagtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccaccccatctctgaccatgaggccaccctgagggtgctgggcccctgggtttctaccctgctggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttctggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggcgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccgtctctccagctccaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCttaggtgga (配列番号
 : 794)

【0298】

B*4003 atgcccgtcacggcgccccgaaccctcctcctgctgctctggggggcagtgcccctgaccgagacctgggcTg
 gctcccactccatgaggtaattccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgtgggtac
 gtggacgacacgcgttctgtagggttcgacagcgacgccacgagtcgagggaaggagccgcccggcgccatggaTgagca
 ggaggggcccggagataggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagccTgcggaacc
 tgcgaggctactacaaccagagcagggccgggtctcacaccctccagagcatgtacggctgctgacgtggggcccggacggg
 cgctcctccgcccgaatgaccagtCgcccacgacggcaaggattacatcgcccgaacgaggacctgctgctcctggac
 cgccgcccacacggcggctcagatcaccagcgcgaagtgggagggcccgtgTggcggagcagctgagagcctaccTgg
 agggcgagtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccaccccatctctgaccatgaggccaccctgagggtgctgggcccctgggtttctaccctgctggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttctggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggcgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccgtctctccagctccaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCttaggtgga (配列番号
 : 795)

【0299】

B*4004 atgcccgtcacggcgccccgaaccctcctcctgctgctctggggggcagtgcccctgaccgagacctgggcTg

10

20

30

40

50

gctcccactccatgaggta t tccacacctccgtgtcccggccccggcggggagccccgcttcatcaccgtgggctac
 gtggacgacacgcgttctgtgaggttgcacagcgacgccacgagtcagaggaaggagcccgggcgccatgga tagagca
 ggaggggccccgagtat tgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacatcatccagaggatgta tggctgcgacCtggggccggacggg
 cgctcctccgcgggcatAaccagtacgctacgacggcaaggat tacatcgccc tgaacgaggacctgcgctcctggac
 cgccgcgacacggcggctcagatcaccagcgcaagtgggagggcccggtgTggcgggagcagcTgagagcctacc tgg
 agggcgagtgcgtggagtggctccgcagat acc tggagaacgggaaggagacgc tgcagcgcgcgaccccccaaagaca
 cacgtgaccaccacccccatctctgaccatgaggccaccctgaggtgctgggccc tgggcttctaccctgcgggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgg tgg tgccttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc tcccc t gagatgggagccgtcttcccagtcaccgctccccatcg tgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctgctgtgtagtgtaggaggaagagCtcaggtgga (配列番号
 : 796)

10

【0300】

B*4005 atgcgggctcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggcTg
 gctcccactccatgaggta t tccacacctccgtgtcccggccccggcggggagccccgcttcatcaccgtgggctac
 gtggacgacacgcgttctgtgaggttgcacagcgacgccacgagtcagaggaaggagcccgggcgccatgga tagagca
 ggaggggccccgagtat tgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatAaccagtacgctacgacggcaaggat tacatcgccc tgaacgaggacctgcgctcctggac
 cgccgcgacacggcggctcagatcaccagcgcaagtgggagggcccggtgaggcgggagcagcTgagagcctacc tgg
 agggcTgtgctggagtggctccgcagat acc tggagaacgggaaggagacgc tgcagcgcgcgaccccccaaagaca
 cacgtgaccaccacccccatctctgaccatgaggccaccctgaggtgctgggccc tgggcttctaccctgcgggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgg tgg tgccttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc tcccc t gagatgggagccgtcttcccagtcaccgctccccatcg tgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctgctgtgtagtgtaggaggaagagCtcaggtgga (配列番号
 : 797)

20

【0301】

B*400601 atgcgggctcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 Tggctcccactccatgaggta t tccacacctccgtgtcccggccccggcggggagccccgcttcatcaccgtgggct
 acgtggacgacacgcgttctgtgaggttgcacagcgacgccacgagtcagaggaaggagcccgggcgccatgga tagag
 caggaggggccccgagtat tgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcgga
 cctgcgcggtactacaaccagagcgaggccgggtctcacacttggcagaCgatgtaTggctgcgacgtggggccggacg
 ggcgctcctccgcgggcatAaccagtacgctacgacggcaaggat tacatcgccc tgaacgaggacctgcgctcctgg
 accgcccggacacggcggctcagatcaccagcgcaagtgggagggcccggtgTggcgggagcagcTgagagcctacc t
 ggagggcgagtgcgtggagtggctccgcagat acc tggagaacgggaaggagacgc tgcagcgcgcgaccccccaaaga
 cacagtgaccaccacccccatctctgaccatgaggccaccctgaggtgctgggccc tgggcttctaccctgcgggagatc
 aactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaac
 ct tccagaagtgggcagctgtgg tgg tgccttctggagaagagcagagatacacatgccatgtacagcatgaggggctgc
 cgaagcccc tcccc t gagatgggagccgtcttcccagtcaccgctccccatcg tgggcatgtgtgctggcctggctgtc
 cta...gcagttgtggtcatcggagctgtggtcgctgctgtgtagtgtaggaggaagagCtcaggtgga (配列番
 号 : 798)

30

40

【0302】

B*4007 atgcgggctcacggcaccgccccgaacctcctcctgctgctctcgcgggccctggccctgaccgagacctgggccc
 gctcccactccatgaggta t tccacaccgccaatgtcccggccccggcggggagccccgcttcatcaccgtgggctac
 gtggacgacacgcgttctgtgaggttgcacagcgacgccacgagtcagaggaaggagcccgggcgccatgga tagagca
 ggaggggccccgagtat tgggaccgggagacacagatctTcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatAaccagtacgctacgacggcaaggat tacatcgccc tgaacgaggacctgcgctcctggac

50

cgccgaggacacggcggctcagatctcccagcgcaagtTggaggcggcccgTgTggcggagcagctgagagcctacctgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggacaagctggagcgcgtgacccccaaagaca
 cacgtgaccaccaccccatctctgaccatgaggccacctgaggTgctgggcccTgggtTcttacctgCGGgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggTggtgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccgtctTcccagTccaccgtccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagtTgtggtcatcggagctgtggtcgctgctgtgataTgttaggaggaagagtTcaggtgga (配列番号
 : 799)

【0303】

B*4008 atgcgggtcacggcgccccgaacctcctcctgctgctctggggggcagTggccctgaccgagacctgggcTg
 gctcccactccatgaggtatTccacacctccgtgtcccggcccggcggggagccccgctTcatcaccgtgggtac
 gtggacgacacgcTgtTcgTgaggtTcgacagcagcgcacagctccgaggaaggagccgCGGcgccatggaTagagca
 ggaggggcccggagtatTgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagagcctgCGgaacc
 TgCGcggctactacaaccagagcagggccgggtctcacacctccagagcatgtacggctgCGacgtggggccggacggg
 cgctcctccgCGggcatAaccgTaccgctacgacggcaaggatTacaTgccccTgaacgaggacctgCGctcctggac
 cgccgaggacacggcggctcagatcacccagcgaagtgggaggcggcccgTgTggcggagcagcTgagagcctacctgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgcTgacgCGcgggacccccaaagaca
 cacgtgaccaccaccccatctctgaccatgaggccacctgaggTgctgggcccTgggtTcttacctgCGGgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggTggtgctctTggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccgtctTcccagTccaccgtccccatcgTgggcatTgtTgctggcctggctgtcct
 a...gcagtTgtggtcatcggagctgtggtcgctgctgtgataTgttaggaggaagagCtCaggtgga (配列番号
 : 800)

【0304】

B*4009 gctcccactccatgaggtatTtCacacctccgtgtcccggcccggcggggagccccgctTcatcaccgt
 gggctacgtggacgacacgcTgtTcgTgaggtTcgacagcagcgcAcgagTccgaggaaggagccgCGGcgccatgga
 TagagcaggaggggcccggagtatTgggaccgggagacacagatctccaagaccaacacacagactTaccgagagagcctg
 cggaacctgCGcggctactacaaccagagcagggccgggtctcacacctccagagcatgtacggctgCGacgtggggcc
 ggacgggCGcctcctccgCGggTatgaccagTaccctacgacggcaaggatTacaTgccccTgaacgaggacctgCGct
 cctggaccgcccgCGgacacggcggctcagatcacccagcgaagtgggaggcggcccgTgTggcggagcagcTgagagcc
 tactTggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggaGacgctgCagcgcGg (配
 列番号 : 801)

【0305】

B*4010 gctcccactccatgaggtatTtCacacctccgtgtcccggcccggcggggagccccgctTcatcGcagT
 gggctacgtggacgacacgcTgtTcgTgaggtTcgacagcagcgcAcgagTccgaggAaggagccgCGGcgccatgga
 TagagcaggaggggcccggagtatTgggaccgggagacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaacctgCGcggctactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgCGacgtggggcc
 ggacgggCGcctcctccgCGggcatAaccgTaccgctacgacggcaaggatTacaTgccccTgaacgaggacctgCGct
 cctggaccgcccgCGgacacggcggctcagatctcccagcgaagtTggaggcggcccgTgTggcggagcagcTgagagcc
 tactTggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggaGacgctgCagcgcGg (配
 列番号 : 802)

【0306】

B*4011 gctcccactccatgaggtatTtCacacctccgtgtcccggcccggcggggagccccgctTcatcaccgt
 gggctacgtggacgacacgcTgtTcgTgaggtTcgacagcagcgcAcgagTccgaggAaggagccgCGGcgccatgga
 TagagcaggaggggcccggagtatTgggaccgggagacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaacctgCGcggctactacaaccagagcagggccgggtctcacacctccagagGatgtacggctgCGacgtggggcc
 ggacgggCGcctcctccgCGggcatAaccgTaccgctacgacggcaaggatTacaTgccccTgaacgaggacctgCGct
 cctggaccgcccgCGgacacggcggctcagatcacccagcgaagtgggaggcggcccgTgTggcggagcagcTgagagcc
 tactTggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggaGacgctgCagcgcGg (配
 列番号 : 803)

10

20

30

40

50

【 0 3 0 7 】

B*4012 atgCGGGTcacGGGCCCCgaaccgtcctcctgctgctctCGGGAgccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccatgtcccggcccggccgCGGGgagccccgcttcatctcagtgggtac
 gtggacgacacGcagttcgtgaggttcgacagcgacgcccgaggtccgagagaggagccgCGGGcgccAtggaTagagca
 ggaggggcccggagtattgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgCGGctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgCGacgtggggccggacggg
 cgctcctccgCGGGcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgCGctcctggac
 cgccgCGgacacggCGGctcagatctcccagcgcaagtTggagggcgcccggtTggCGgagcagctgagagcctacctgg
 agggcgagtgcgtggagtggctccgCagataacctggagaacgggaaggacaagctggagcCGctg (配列番号：
 8 0 4)

10

【 0 3 0 8 】

B*4013 atgCGGGTcacGGGCCCCgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggCG
 gctcccactccatgaggtatttccacacctccgtgtcccggcccggccgCGGGgagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttcgtgaggttcgacagcgacgccacgaggtccgaggaaggagccgCGGGcgccatggaTagagca
 ggaggggcccggagtattgggaccgggagacacagatcttcaagaccaacacacagacttaccgagagaacctgcggaatcg
 CgctCGctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgCGacgtggggccggacggg
 cgctcctccgCGGGcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgCGctcctggac
 cgccgCGgacacggCGGctcagatcaccagcgcaagtgggagggcgcccggtTggCGgagcagctgagagcctacctgg
 agggcgagtgcgtggagtggctccgCagataacctggagaacgggaaggagacgctgcagcCGcg (配列番号：
 8 0 5)

20

【 0 3 0 9 】

B*401401 gctcccactccatgaggtatttCacaccgccatgtcccggcccggccgCGGGgagccccgcttcatcacc
 gtgggctacgtggacgacacgCTgttcgtgaggttcgacagcgacgccAcgagttccgaggaaggagccgCGGGcgccatg
 gatagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcc
 tgcggaacctgCGCGGctactacaaccagagcgaggccgggtctcacacctccagaggaatgtacggctgCGacgtgggg
 ccggacgggCGctcctccgCGGGcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgCG
 ctctggaccCGGcgacacCGCGGctcagatcaccagcgcaagtgggagggcgcccggtTggCGgagcagctgagag
 cctacctggagggcgagtgcgtggagtggctccgCagataacctggagaacgggaaggacaagctggagcCGctg (配
 列番号：8 0 6)

30

【 0 3 1 0 】

B*401402 gctcccactccatgaggtatttCacaccgccatgtcccggcccggccgCGGGgagccccgcttcatcacc
 gtgggctacgtggacgacacgCTgttcgtgaggttcgacagcgacgccAcgagttccgaggaaggagccgCGGGcgccatg
 gatagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcc
 tgcggaacctgCGCGGctactacaaccagagcgaggccgggtctcacacctccagaggaatgtacggctgCGacgtgggg
 ccggacgggCGctcctccgCGGGcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgCG
 ctctggaccCGGcgacacGGCGGctcagatcaccagcgcaagtgggagggcgcccggtTggCGgagcagctgagag
 cctacctggagggcgagtgcgtggagtggctccgCagataacctggagaacgggaaggacaagctggagcCGctg (配
 列番号：8 0 7)

40

【 0 3 1 1 】

B*4015 gctcccactccatgaggtatttccacaccgccatgtcccggcccggccgCGGGgagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccacgagttccgaggaaggagccgCGGGcgccatgga
 Tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaacctgCGCGGctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgCGacgtggggcc
 ggacgggCGctcctccgCGGGcatAaccagtacgctacgacggcaaggattacatcgccctgaacgaggacctgCGct
 cctggaccCGGcgacacGGCGGctcagatcaccagcgcaagtgggagggcgcccggtgagggcgagcagcgGagagcc
 tactggagggcgagtgcgtggagtggctccgCagataacctggagaacgggaaggacaagctggagcCGctg (配
 列番号：8 0 8)

50

【 0 3 1 2 】

B*4016 atgCGGGTcacGGCaccccgaaccgtcctcctgctgctctCGGCGGccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttCacaccgccAtgtcccggcccggccgCGGGgagccccgcttcatcaccgtgggtac

gtggacgacacgcTgttcgtagggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccAtggatagagca
 ggagggccggagtat tgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatAaccgtagcctacgacggcaaggat taca tgccttgaacgaggacctgcgctcctggac
 cgccgaggacacggcggctcagatcaccagcgcaagtgggagggcccggtgaggcggagcagcggagagcctacctgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggacaagctggagcgcgctg (配列番号：
 809)

【0313】

B*4018 gctcccactccatgaggtat ttcCacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgcTgttcgtagggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccatgga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagagcctg
 cggaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggcc
 ggacgggcgctcctccgcgggcatgaccgtagcctacgacggcaaggat taca tgccttgaacgaggacctgcgct
 cctggaccgcccgggacacggcggctcagatcaccagcgcaagtgggagggcccggtgTggcggagcagcTgagagcc
 tactggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgcGg (配
 列番号：810)

10

【0314】

B*4019 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgcTgttcgtagggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccatgga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctCcaagaccaacAcacagacttaccgagagaacctg
 cggaTcgcgctccgctactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggcc
 ggacgggcgctcctccgcgggcatAaccgtagcctacgacggcaaggat taca tgccttgaacgaggacctgcgct
 cctggaccgcccgggacacggcggctcagatcaccagcgcaagtgggagggcccggtgTggcggagcagcTgagagcc
 tactggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgCagcgcgcgg (配
 列番号：811)

20

【0315】

B*4020 atgcgggtcacggcggcccgaacctcctcctgctgctctggggggcagtgccccgaccgagacctgggcTg
 gctcccactccatgaggtat tccacacctccgtgtcccggcccggccgcggggagccccgcttcatcaccgtgggctac
 gtggacgacacgcTgttcgtagggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccatgga tagagca
 ggagggccggagtat tgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcatgaccagtCcgctacgacggcaaggat taca tgccttgaacgaggacctgcgctcctggac
 cgccgaggacacggcggctcagatcaccagcgcaagtgggagggcccggtgTggcggagcagcTgagagcctacctgg
 agggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgcgg (配列番号：
 812)

30

【0316】

B*4021 gctcccactccatgaggtat tctacaccgcatgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagtcgtagggttcgacagcgacgcccgagtcgaggaaggagccgcgggcgccatgga tagagca
 tagagcaggaggggcccggagtat tgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaacctgcgcggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcgctcctccgcgggcatAaccgtagcctacgacggcaaggat taca tgccttgaacgaggacctgcgct
 cctggaccgcccgggacacggcggctcagatctcccagcgcaagtTggagggcccggtgTggcggagcagcTgagagcc
 tactggagggcgagtgcgtggagtggctccgcagataacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：813)

40

【0317】

B*4023 atgcgggtcacggcaccggcccgaacctcctcctgctgctctcgggggccctggccccgaccgagacctgggccc
 gctcccactccatgaggtat ttcCacaccgcatgtcccggcccggccgcggggagccccgcttcatcaccgtgggctac
 gtggacgacacgcTgttcgtagggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccatgga tagagca
 ggagggccggagtat tgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacggg
 (配列番号：814)

50

cgctcctccgcgggcatAaccgtagcctacgacggcaaggat taca tgccttgaacgaggacctgcgctcctggac
cgccgcggacacggcggctcagatcTcccagcgcaagtgggagggcgcccgtaggagcggagcagcgagacctacctgg
agggcgagtgctggagtggtccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配列番号:
8 1 4)

【0318】

B*4024 gctcccactccatgaggtatttcCacacctccgtgtcccggcccggccgcggggagccccgcttcatcacctg
gggtacgtggacgacacgctgttctgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccAtgga
tagagcaggaggggcccggagtatgggaccgggaGacacagatctCcaagaccaacAcacagactTaccgagagacctg
cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagagcagtacggctgcgacCtggggcc
Cgacgggcccctcctccgcgggcatgaccgtagcctacgacggcaaggat taca tgccttgaacgaggacctgcgct
cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggagggcgcccggtgTggcgagcagcTgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggagacgctgCagcgcgcGg (配
列番号: 8 1 5)

10

【0319】

B*4025 gctcccactccatgaggtatttcCacaccgcca tgtcccggcccggccgcggggagccccgcttcatcacctg
gggtacgtggacgacacgctgttctgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccAtgga
tagagcaggaggggcccggagtatgggaccgggaacacacagatctCcaagaccaacacacagactTaccgagagacctg
cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatAaccgtagcctacgacggcaaggat taca tgccttgaacgaggacctgcgct
cctggaccgccgaggacacggcggctcagatctcccagcgcaagtTggagggcgcccggtgTggcgagcagcTgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 8 1 6)

20

【0320】

B*4026 gctcccactccatgaggtatttcCacacctccgtgtcccggcccggccgcggggagccccgcttcatcacctg
gggtacgtggacgacacgctgttctgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgcca t gga
tagagcaggaggggcccggagtatgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagacctg
cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagagga t g t acggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatAaccgtagcctacgacggcaaAgat taca tgccttgaacgaggacctgagct
cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggagggcgcccggtgagggcgagcagcTgagagcc
tacctggagggccTgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcgg (配
列番号: 8 1 7)

30

【0321】

B*4027 gctcccactccatgaggtatttcCacacctccgtgtcccggcccggccgcggggagccccgcttcatcacctg
gggtacgtggacgacacgctgttctgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgcca t gga
tagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacctg
cggaaactgcgcggtactacaaccagagcggaggccgggtctcacacctccagagcagtacggctgcgacgtggggcc
ggacgggcccctcctccgcgggcatAaccgAacgctacgacggcaaggat taca tgccttgaacgaggacctgagct
cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggagggcgcccggtgagggcgagcagcTgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcgg (配
列番号: 8 1 8)

40

【0322】

B*4028 gctcccactccatgaggtatttcCacacctccgtgtcccggcccggccgcggggagccccgcttcatcacctg
gggtacgtggacgacacgctgttctgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgcca t gga
tagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacctg
cggaaactgcgcggtactacaaccagagcggaggccgggtctcacatcatccagagga t g t acggctgcgacCtggggcc
ggacgggcccctcctccgcgggcatAaccgtagcctacgacggcaaAgat taca tgccttgaacgaggacctgagct
cctggaccgccgaggacacggcggctcagatcacccagcgcaagtgggagggcgcccggtgagggcgagcagcTgagagcc
tacctggagggccTgtgctggagtggtccgcagaCacctggagaacgggaaggagacgctgcagcgcgcgg (配
列番号: 8 1 9)

50

【0323】

B*4029 gctcccactccatgaggtatttccacacctccgtgtcccggccccggccgcggggagccccgcttcatcacctg
 gggctacgtggacgacacgcgtgtcgtagggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagta tgggaccCggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcagtacggctgcgacgtggggcc
 ggacgggcccctctccgcgggcaAaccagtagcctacgacggcaaggat taca tgccttgaacgaggacctgctgt
 cctggaccgccgcgacacggcggtcagatcaccagcgcaagtgggagggcgcccgtgtggcgagcagctgagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号：820)

【0324】

B*4030 gctcccactccatgaggtatttccacaccgcca t g tcccggccccggccgcggggagccccgcttcatcacctg
 gggctacgtggacgacacgcgtgtcgtagggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagta tgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcatccagGtgatgtatggctgcgacgtggggcc
 ggacgggcccctctccgcgggca t aaccagtagcctacgacggcaaggat taca tgccttgaacgaggacctgctgt
 cctggaccgccgcgacacggcggtcagatctcccagcgcaagtTggagggcgcccgtgtggcgagcagctgagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：821)

【0325】

B*4031 gctcccactccatgaggtatttCacaccgcca t g tcccggccccggccgcggggagccccgcttcatcacctg
 gggctacgtggacgacacgcTgttcgtagggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagta tgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcagtacggctgcgacgtggggcc
 ggacgggcccctctccgcgggca t gaccagtagcctacgacggcaaggat taca tgccttgaacgaggacctgctgt
 cctggaccgccgcgacacggcggtcagatctcccagcgcaagtTggagggcgcccgtgtggcgagcagctgagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：822)

【0326】

B*4032 gctcccactccatgaggtatttCacaccgcca t g tcccggccccggccgcggggagccccgcttcatcacctg
 gggctacgtggacgacacgcTgttcgtagggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagta tgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcagtacggctgcgacgtggggcc
 ggacgggcccctctccgcgggca t gaccagtagcctacgacggcaaggat taca tgccttgaacgaggacctgctgt
 cctggaccgccgcgacacggcggtcagatctcccagcgcaagtTggagggcgcccgtgtggcgagcagctgagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：823)

【0327】

B*4033 gctcccactccatgaggtatttCacaccgcca t g tcccggccccggccgcggggagccccgcttcatcacctg
 gggctacgtggacgacacgcTgttcgtagggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagta tgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcccctctccgcgggca t gaccagtagcctacgacggcaaggat taca tgccttgaacgaggacctgctgt
 cctggaccgccgcgacacggcggtcagatctcccagcgcaagtTggagggcgcccgtgtggcgagcagctgagagcc
 tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：824)

【0328】

B*4034 gctcccactccatgaggtatttccacaccgcca t g tcccggccccggccgcggggagccccgcttcatcacctg
 gggctacgtggacgacacgcgtgtcgtagggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagta tgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacatcatccaggtgatgtatggctgcgacgtggggcc
 ggacgggcccctctccgcgggca t aaccagtagcctacgacggcaagAat taca tgccttgaacgaggacctgctgt
 cctggaccgccgcgacacggcggtcagatctcccagcgcaagtTggagggcgcccgtgtggcgagcagctgagagcc

10

20

30

40

50

cctggaccgccgaggacacggcggctcagatctcccagcgcaagtggaggcggcccgtgtggcggagcagctgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 8 2 5)

【 0 3 2 9 】

B*4035 gctcccactccatgaggtat ttcCacacctccgtgtcccggcccggccgaggaggacccccgttcatcaccgt
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgccccgcca t gga
tagagcaggaggggcccggagtat tggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
cggaaacctgcgcggctactacaaccagagcggaggccgggtctcacacctccagagcattacggctgcgacgtggggcc
ggacgggcgctcctccgcgggcatAaccagtacgctacgacggcaaggattacatcgccc tgaacgaggacctgAgct
cctggaccgccgaggacacggcggctcagatcaccagcgcaagtggaggcggcccgtgtggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggagGacgctgCagcgcgcGg (配
列番号: 8 2 6)

【 0 3 3 0 】

B*4036 gctcccactccatgaggtat ttcacaccgcca tgtcccggcccggccgaggaggacccccgttcatcaccgt
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgccccgcca t gga
tagagcaggaggggcccggagtat tggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
cggaaacctgcgcggctactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
ggacgggcgctcctccgcgggcatAaccagTcgctacgacggcaaggattacatcgccc tgaacgaggacctgcgct
cctggaccgccgaggacacggcggctcagatctcccagcgcaagtTggaggcggcccgtgtggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 8 2 7)

【 0 3 3 1 】

B*4037 gctcccactccatgaggtat ttcCacacctccgtgtcccggcccggccgaggaggacccccgttcatcaccgt
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgccccgcca t gga
tagagcaggaggggcccggagtat tggaccgggagacacagatctCcaagaccaacacacagacttaccgagagaAcctg
cggaaacctgcgcggctactacaaccagagcggaggccgggtctcacacctccagagcattacggctgcgacgtggggcc
ggacgggcgctcctccgcgggcatAaccagTcgctacgacggcaaggattacatcgccc tgaacgaggacctgcgct
cctggaccgccgaggacacggcggctcagatctcccagcgcaagtTggaggcggcccgtgtggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggagGacgctgCagcgcgcGg (配
列番号: 8 2 8)

【 0 3 3 2 】

B*4038 gctcccactccatgaggtat ttcacaccgcca tgtcccggcccggccgaggaggacccccgttcatcaccgt
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgccccgcca t gga
tagagcaggaggggcccggagtat tggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
cggaaacctgcgcggctactacaaccagagcggaggccgggtctcacacctccagagga tgtacggctgcgacgtggggcc
ggacgggcgctcctccgcgggcatAaccagTcgctacgacggcaaggattacatcgccc tgaacgaggacctgcgct
cctggaccgccgaggacacggcggctcagatctcccagcgcaagtTggaggcggcccgtgtggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 8 2 9)

【 0 3 3 3 】

B*4039 gggggcagtgcccc taccgagacctgggcTggctcccactccatgaggtat ttcacacctccgtgtcccgg
cccggccgaggaggacccccgttcatcaccgtgggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccac
gagtcgaggaaggagccgccccgcca t gga tagagcaggaggggcccggagtat tggaccgggagacacagatctcca
agaccaacacacagacttaccgagagagcctgcggaacctgcgcggctactacaaccagagcggaggccgggtctcacacc
ctccagagcattacggctgcgacgtggggccggacgggcgctcctccgcgggcatAaccagtacgctacgacggcaa
ggattacatcgccc tgaacgaggacctgcgctcctggaccgccgaggacacggcggctcagatcaccagcgcaagtggg
aggcggcccgtgtggcggagcagcTgagagcc tacctggagggcaCgtgcgtggagtggtccgcagatacctggagaac
gggaaggagacgctgcagcgcgcggacccccaaagacacacgtgaccaccacccccatcttgacctgaggccaccct
gaggTgctgggccc tgggCtcttacctgcggagatcacactgacctggcagcgggatggcaggaccaaactcaggaca
ctgagctgtggagaccagaccagcaggagatagaacctccagaagtgggcagctgtgggggctcttggagaagag

10

20

30

40

50

cagagatacacatgccatgtacagcatgagggctgccgaagccctcaccctgagatgggagccgtcttcccagtcac
cgtccccatcgtgggcatgtgtgctggcctggctgtcct (配列番号: 830)

【0334】

B*4040 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgsgggagccccgcttcatcacctg
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgsgggcgccatgga
tagagcaggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagaccgtg
cggaaacctgcgsggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgacgagctggggcc
ggacgggcccctcctccgsgggcatAaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
cctggaccgcccggacacggcggctcagatcacccagcgcaagtgggagggcggcccgtgTggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagGacgctgCagcgcgGg (配
列番号: 831)

10

【0335】

B*4042 gctcccactccatgaggtatttccacaccgccaagtcccggcccggccgsgggagccccgcttcatcacctg
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgsgggcgccatgga
tagagcaggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagaccgtg
cggaaacctgcgsggtactacaaccagagcgaggccgggtctcacacctccagaggaagtacggctgacgagctggggcc
ggacgggcccctcctccgsgggTatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
cctggaccgcccggacacggcggctcagatctcccagcgcaagtTggagggcggcccgtgTggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 832)

20

【0336】

B*4043 gctcccactccatgaggtatttccacaccgccaagtcccggcccggccgsgggagccccgcttcatcacctg
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgsgggcgccatgga
tagagcaggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacacacagactgaccgagagaccgtg
cggaaacctgcgsggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgacgagctggggcc
ggacgggcccctcctccgsgggcatAaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
cctggaccgcccggacacggcggctcagatctcccagcgcaagtTggagggcggcccgtgTggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
列番号: 833)

30

【0337】

B*4044 gctcccactccatgaggtatttccacacctccgtgtcccggcccggccgsgggagccccgcttcatcacctg
gggtacgtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgsgggcgccatgga
tagagcaggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacacacagactTaccgagagaccgtg
cggaaacctgcgsggtactacaaccagagcgaggccgggtctcacacttggcagaCgagttaTggctgacgagctggggcc
ggacgggcccctcctccgsgggcatgaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgct
cctggaccgcccggacacggcggctcagatcacccagcgcaagtgggagggcggcccgtgTggcggagcagcTgagagcc
tacctggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagacgctgCagcgcgcg (配
列番号: 834)

【0338】

B*4101 atgsgggtcacggcaccgcaaccgtcctcctgctgctctcgsgggccctggccctgaccgagacctgggccc
gctcccactccatgaggtatttccacaccgccaagtcccggcccggccgsgggagccccgcttcatcacctgsggtac
gtggacgacacgcTgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgsgggcgccatgga tagagca
ggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagaccgtgcgaaacc
tgcgsggtactacaaccagagcgaggccgggtctcacacttGcagaggaagttaTggctgacgagctggggcccggacggg
cgccctcctccgsgggcataaccagtagcctacgacggcaaggattacatcgcccgaacgaggacctgcgctcctggac
cgsgggcgacaccgsggtcagatcacccagcgcaagtgggagggcggcccgtgTggcggagcaggaCagagccacctgg
agggcaCgtgctggagtggctccgcagatacctggagaacgggaaggacacgctggagcgcgcgacccccaaagaca
cacgtgaccaccaccctctctgaccatgaggccacctgaggtgctgggcccgggctcttacctgsggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
tccagaagtgggacgctgtgggtggctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg

40

50

aagccccaccctgagatgggagccgtcttcccagtcaccgctccccatcgtgggcatgttgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgagtgtgtaggaggaagagCtcaggtgga (配列番号
 : 8 3 5)

【 0 3 3 9 】

B*4102 atgcggggtcacggcaccggaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatftccacaccgccaatgtcccggcccggccgcggggagccccgcttcatcaccgtgggtac
 gtggacgacacgctgttctgtgaggttgcacagcgcacccacgagtcgaggaaggagcccgggcgccAtgga tagagca
 ggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcagggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcataaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgctgtcctggac
 cgcgggacaccgcggtcagatcaccagcgaagtgggagcgggcccggtgtggcgagcaggaCagagcctacctgg
 agggcaCgtgctggagtggctccgcagatacctggagaacgggaaggacacgctggagcgcgaggacccccaaagaca
 cacgtgaccaccaccatctctgaccatgaggccacctgaggtgctggggccctgggcttctacctgcgagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgcc
 aagccccaccctgagatgggagccgtcttcccagtcaccgctccccatcgtgggcatgttgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgagtgtgtaggaggaagagCtcaggtgga (配列番号
 : 8 3 6)

【 0 3 4 0 】

B*4103 gctcccactccatgaggtatftccacaccgccaatgtcccggcccggccgaggAgagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttgcacagcgcacccacgagtcgaggaaggagcccgggcgccatgga
 tagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaacctgcgcggtactacaaccagagcagggccgggtctcacacctccagagga tgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcataaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgctgt
 cctggaccgcgggacaccgcggtcagatcaccagcgaagtgggagcgggcccggtgtggcgagcaggaCagagcc
 tactggagggcacgtgctggagtggctccgcagatacctggagaacgggaaggacacgctggagcgcgagg (配
 列番号 : 8 3 7)

【 0 3 4 1 】

B*4104 gctcccactccatgaggtatftccacaccgccaatgtcccggcccggccgaggaggccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttgcacagcgcacccacgagtcgaggaaggagcccgggcgccatgga
 tagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaacctgcgcggtactacaaccagagcagggccgggtctcacacctccagagca tgtacggctgcgacctggggcc
 Cgacgggcccctcctccgcgggcataaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgctgt
 cctggaccgcgggacaccgcggtcagatcaccagcgaagtgggagcgggcccggtgtggcgagcaggaCagagcc
 tactggagggcACgtgctggagtggctccgcagatacctggagaacgggaaggacacgctggagcgcgGg (配
 列番号 : 8 3 8)

【 0 3 4 2 】

B*4105 gctcccactccatgaggtatftccacaccgccaatgtcccggcccggccgaggaggccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttgcacagcgcacccacgagtcgaggaaggagcccgggcgccatgga
 tagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaacGctgcgcggtactacaaccagagcagggccgggtctcacacttggcagagga tgtatggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcataaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgctgt
 cctggaccgcgggacaccgcggtcagatcaccagcgaagtgggagcgggcccggtgtggcgagcaggaCagagcc
 tactggagggcacgtgctggagtggctccgcagatacctggagaacgggaaggacacgctggagcgcgagg (配
 列番号 : 8 3 9)

【 0 3 4 3 】

B*4106 gctcccactccatgaggtatftccacaccgccaatgtcccggcccggccgaggaggccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttgcacagcgcacccacgagtcgaggaaggagcccgggcgccatgga
 tagagcaggaggggcccggagtatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaacctgcgcggtactacaaccagagcagggccgggtctcacacttGcagagga tgtatggctgcgacgtggggcc

10

20

30

40

50

ggacgggcgccctcctccgcgggcataaaccagtacgcctacgacggcaaggat taca tgcgcc tgaacgaggacctgcgct
 cctggaccgcgccgacaccgcggtcagatcaccagcgcaagtgggaggcgcccg tggcgaggcaggaCagagcc
 tacctggagggcaCgtgctggagtggctccgcagataacctggagaacgggaaggacacgctgCagcgcgGg (配
 列番号: 840)

【0344】

B*4201 atgctgggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgct tcatctcagtgggtac
 gtggacgacaccagttcgtgaggt t cgacagcgacgcccgaggtccgagagaggagcccgggcgccgtgga tagagca
 ggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgccctcctccgcgggcataaaccagtacgcttacgacggcaaggat taca tgcgcc tgaacgaggacctgcgctcctggac
 cgcgccggacaccgcggtcagatcaccagcgcaagtgggaggcgcccg tggcgaggcaggaCagagcc tacc tgg
 agggcaCgtgctggagtggctccgcagataacctggagaacgggaaggacacgctggagcgcgggacccccaaagaca
 cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggccc tgggt tctacctgcgagatcac
 actgacctggcagcggtatggcgaggacaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgg tgcctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc taccctgagatgggagccgtct tcccag tccaccgtccccatcg tgggcatgtgtgctggcctggctgtcct
 a...gcagtgtgggtcatcggagctgtgggtcgctgctgtgtagtaggaggaagagCtcaggtgga (配列番号
 : 841)

【0345】

B*4202 ggctcccactccatgaggtat t tCacacctccgtgtcccggcccggccgcggggagccccgct tca tctcag
 tgggtacgtggacgacaccagttcgtgaggt t cgacagcgacgcccgaggtccgagagaggagcccgggcgccgtgg
 atagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacct
 gcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggc
 cggacggcgccctcctccgcgggcatAaccagtacgcttacgacggcaaggat taca tgcgcc tgaacgaggacctgcg
 tcttggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggaggcgcccg tTggcgaggcaggaCagagc
 ctacctggagggcACgtgctggagtggctccgcagataacctggagaacgggaaggacacgctggagcgcgGg (配
 列番号: 842)

【0346】

B*4204 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcggggagccccgct tca tctcag
 gggctacgtggacgacaccagttcgtgaggt t cgacagcgacgcccgaggtccgagagaggagcccgggcgccgtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagacctg
 cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacact tggcagaCgagtgtTggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcatAaccagtacgcttacgacggcaaggat taca tgcgcc tgaacgaggacctgcgct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggaggcgcccg tTggcgaggcaggaCagagcc
 tacctggagggcACgtgctggagtggctccgcagataacctggagaacgggaaggacacgctggagcgcgGg (配
 列番号: 843)

【0347】

B*440201 atgcggggtcacggcgccccgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 cggctcccactccatgaggtat t tctacaccgcca tgtcccggcccggccgcggggagccccgct tcatcaccgtgggt
 acgtggacgacacgctgt t cgtgaggt t cgacagcgacgccAcgaggtccgaggaaggagcccgggcgccatgga tagag
 caggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagact taccgagagaacctgcgcac
 cgctcCgctactacaaccagagcgaggccgggtctcaca tcatccagagga tgtacggctgcgacgtggggccggacg
 ggcgctcctccgcggggtatgaccaggacgcttacgacggcaaggat taca tgcgcc tgaacgaggacctgagctcctgg
 accgcgccggacaccgcggtcagatcaccagcgcaagtgggaggcgcccg tggcgaggcaggaCagagcc tacc t
 ggagggcTgtgctggagtgc tccgcagataacctggagaacgggaaggagacgctgcagcgcgcgggacccccaaaga
 cacatgtgaccaccacccatctctgaccatgaggTaccctgaggtgctgggccc tgggt tctacctgcgagatc
 acactgacctggcagcggtatggcgaggacaaactcaggacaccgagctgtgtggagaccagaccagcaggagatagaac
 ct tccagaagtgggcagctgtggtgg tgcctctggagaagagcagagatacacatgccatgtacagcatgaggggctgc
 cgaagcccc taccctgagatgggagccgtct tcccag tccaccgtccccatcg tgggcatgtgtgctggcctggctgtc

10

20

30

40

50

cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcaggtggactgctgtgatg
ttaggaggaagagCtcaggtgga (配列番号: 844)

【0348】

B*440202 gctcccactccatgaggtat t tctacaccgcca t g tcccggcccggccg ggggagccccgct tca t cacc
gtgggc tacgtggacgacacgctgt t cgtgaggt t cgacagcgacgccacgag t ccgaggaaggagccg cggg ccca t g
gatagagcaggaggggcccggagt a t tgggaccgggagacacagat c t cGaagaccaacacacagact t accgagagaacc
tgcgcaccgcgct cGctactacaaccagagcgaggccggg t c t caca t cat ccagaggat g t acggc tgcgacg tgggg
ccggacggg cgcct cctccg cggg t atgaccaggacgct acgacggcaaggat taca t c gccc t gaacgaggacc t g ag
ct cctggaccg cggcggacaccg cggct cagat caccagc gcaagt gggaggcggccc g t g tggcggagcaggaCagag
cctacc tggagggccTgtg cgtggag t cgtccgcagat acc tggagaacgggaaggagacgctgcagcgcg cggacccc
ccaaagacacatgtgaccaccacccccat c t c t gacca t gaggTcaccctgaggtgctgggccc tgggct tctaccc tgc
ggagatcacactgacctggcagcgggatggc gaggaccaaactcaggacaccgagc t g tggagaccagaccagcaggag
atagaacct tccagaagtgggcagc t g tgg tgg tgcct t c tggagaagagcagagatacacatgcca t g t acagca t g ag
gggctgccaagccccctcaccctgagatggg (配列番号: 845)

10

【0349】

B*440203 gctcccactccatgaggtat t tctacaccgcca t g tcccggcccggccg ggggagccccgct tca t cacc
gtgggc tacgtggacgacacgctgt t cgtgaggt t cgacagcgacgccacgag t ccgaggaaggagccg cggg ccca t g
gatagagcaggaggggcccggagt a t tgggaccgggagacacagat c t ccaagaccaacacacagact t accgagagaacc
tgcgcaccgcgct cccgctactacaaccagagcgaggccggg t c t caca t cat ccagaggat g t acggc tgcgacg tgggg
ccggacggg cgcct cctccg cggg t atgaccaggacgct acgacggcaaggat taca t c gccc t gaacgaggacc t g ag
ct cctggaccg cggcggacaccg cggct cagat caccagc gcaagt gggaggcggccc g t g tGcggagcaggacagag
cctacc tggagggcctgtg cgtggag t cgtccgcagat acc tggagaacgggaaggagacgctgcagcgcg cgg (配
列番号: 846)

20

【0350】

B*440301 atg cgggtcacggcgc cccgaacctcctcctgctgctc tggggggcag tggccc t gaccgagacc tgggc
cggctcccactcca t gaggta t t tctacaccgcca t g tcccggcccggccg cgggagccccgct tca t caccg tgggct
acgtggacgacacgctgt t cgtgaggt t cgacagcgacgccAcgag t ccgaggaaggagccg cggg ccca t gga tagag
caggaggggcccggagt a t tgggaccgggagacacagat c t ccaagaccaacacacagact t accgagagaacc tgcgcac
cgcgctccgctactacaaccagagcgaggccggg t c t caca t cat ccagaggat g t acggc tgcgacg tggggcccggacg
ggcgcct cctccg cggg t atgaccaggacgct acgacggcaaggat taca t c gccc t gaacgaggacc t g agct c c t g g
accg cggcggacaccg cggc t cagat caccagc gcaagt gggaggcggccc g t g tggcggagcagcTgagagcc tacc t
ggagggcTgtg cgtggag t cgtccgcagat acc tggagaacgggaaggagacgctgcagcgcg cggacccccaaaga
caca t g t gaccaccacccccat c t c t gacca t gaggTcaccctgaggtgctgggccc tgggct t c t accc tgcggagat c
acactgacctggcagcggga tggc gaggaccaaactcaggacaccgagc t g tggagaccagaccagcaggagatagaac
ct tccagaagtgggcagc t g tgg tgg tgcct t c tggagaagagcagagatacacatgcca t g t acagca t g aggggctgc
cgaagcccc t caccctgagatgggagccgct t tcccag tccaccg tccccatcg tgggcat g t t gctggcctggc t g t c
cta...gcagttgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcaggtgga (配列番
号: 847)

30

【0351】

B*440302 atg cgggtcacggcgc cccgaacctcctcctgctgctc tggggggcag tggccc t gaccgagacc tgggc
cggctcccactcca t gaggta t t tctacaccgcca t g tcccggcccggccg cgggagccccgct tca t caccg tgggct
acgtggacgacacgctgt t cgtgaggt t cgacagcgacgccAcgag t ccgaggaaggagccg cggg ccca t gga tagag
caggaggggcccggagt a t tgggaccgggagacacagat c t ccaagaccaacacacagact t accgagagaacc tgcgcac
cgcgctccgctactacaaccagagcgaggccggg t c t caca t cat ccagaggat g t aTggctg c gacg tggggcccggacg
ggcgcct cctccg cggg t atgaccaggacgct acgacggcaaggat taca t c gccc t gaacgaggacc t g agct c c t g g
accg cggcggacaccg cggc t cagat caccagc gcaagt gggaggcggccc g t g tggcggagcagcTgagagcc tacc t
ggagggcTgtg cgtggag t cgtccgcagat acc tggagaacgggaaggagacgctgcagcgcg cggacccccaaaga
caca t g t gaccaccacccccat c t c t gacca t gaggTcaccctgaggtgctgggccc tgggct t c t accc tgcggagat c
acactgacctggcagcggga tggc gaggaccaaactcaggacaccgagc t g tggagaccagaccagcaggagatagaac
ct tccagaagtgggcagc t g tgg tgg tgcct t c tggagaagagcagagatacacatgcca t g t acagca t g aggggctgc

40

50

cgaagcccctcacctgagatgggagccgtcttcccagtcaccgtcccatcgtgggcatgtgtgctggcctggctgtc
cta...gcagtgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcaggtgga (配列番
号: 848)

【0352】

B*4404 atgcggtcacggcgcggcgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggccg
gctcccactccatgaggtatcttacaccgccaatgtcccggccggccgcggggagccccgcttcatcaccgtggctac
gtggacgacacgctgttctgtgaggttcgacagcgacgccagagtcgaggaaggagcccgggcgccatgga tagagca
ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctgcgaccg
cgctccgctactacaaccagagcagggccgggtctcacatcatccagaggatgtacggctgcgacgtggggccggacggg
cgctcctccgcggtatgaccaggacgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
cgcggggacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcagcgagagacctacctgg
agggcaCgtgctggagtgcctccgagatacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
catgtgaccaccacccatctctgaccatgaggTaccctgaggtgctgggccc tgggcttctacctgcgagatcac
actgacctggcagcgggatggcgaggacaaactcaggacaccgagctgtgtggagaccagaccagcaggagatagaacct
tcagaagtgggcagctgtggtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgcc
aagccccctcacctgagatgggagccgtcttcccagtcaccgtcccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagtgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagCtcaggtgga (配列番号
: 849)

【0353】

B*4405 ggcgccatggatagagcaggaggggcccggagtattgggaccgggaGacacagatctccaagaccaacacacag
acttaccgagagaacctgcgcaCcGcgtcCgctactacaaccagagcagggccgggtctcacatcAtccagaggatgta
cggctgcgacgtggggccggacgggcccctcctccgcggtTatgaccagtacgcc tacgacggcaaggattacatcgcc
tgaacgaggacctgagctcctggaccgcgggcggacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtg
gaggagcaggaCagagacctacctggagggccTgtgctggagtCgctccgagatacctggagaacgggaaggagacgct
gcagcgcGg (配列番号: 850)

【0354】

B*4406 atgcggtcacggcgcggcgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggccg
gctcccactccatgaggtatcttacaccgccaatgtcccggccggccgcggggagccccgcttcatTgcagtggctac
gtggacgacacccagttctgtgaggttcgacagcgacgcccgagtcgaggaaggagccccggggcgccatgga tagagca
ggaggggcccggagtattgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctgcggtacg
cgctccgctactacaaccagagcagggccgggtctcacatcatccagaggatgtacggctgcgacgtggggccggacggg
cgctcctccgcggtatgaccaggacgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
cgcggggacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcaggaCagagacctacctgg
agggcctgtgctggagtCgctccgagatacctggagaacgggaaggagacgctgcagcgcgagg (配列番号:
851)

【0355】

B*4407 atgcggtcacggcgcggcgaaccctcctcctgctgctctggggggcagtgccctgaccgagacctgggccg
gctcccactccatgaggtatcttacaccgccaatgtcccggccggccgcggggagccccgcttcatcaccgtggctac
gtggacgacacgctgttctgtgaggttcgacagcgacgcccgagtcgaggaaggagcccgggcgccatgga tagagca
ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctgcgaccg
cgctccgctactacaaccagagcagggccgggtctcacatcatccagaggatgtaTggctgcgacgtggggccggacggg
cgctcctccgcggtatgaccaggacgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
cgcggggacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcagcTgagagacctacctgg
agggcTgtgctggagtCgctccgagatacctggagaacgggaaggagacgctgcagcgcgagg (配列番号:
852)

10

20

30

40

50

【 0 3 5 6 】

B*4408 atgCGGGTcACGGGCCCCGAACCCtCtCctGcTgctctGGGGGcagTggccctgaccgagacctgggCCg
 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgCGGGgagccccgcttcatcaccgtgggtac
 gtggacgacacgcTgttCGtgaggttcgacagcgacGCCcgagTccgaggaTggcgcCcgggcgccatggaTagagca
 ggagggccggagTatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctgcgcaccg
 cgctcCgctactacaaccagagcgaggccgggtctcacatcatccagaggaTgtacggctgcgacgtggggccggacggg
 cgctcctccgCGGgtatgaccaggacgctacgacggcaaggatTacaTcgccTgaacgaggacctgagctcctggac
 cgggcggaacaccgCGGctcagatcaccagcgcaagTgggagggcccgTgtggcggagcaggaCagagcctaccTgg
 agggcTgtgcgtggagTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcgCGGacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggTcaccctgaggtgctgggcccTgggtcttaccctgcggagatcac
 actgacctggcagcgggaTggcgaggaccaaactcaggacaccgagctTgtggagaccagaccagcaggagatagaacct
 tccagaagTgggacgctgtggTggTgctctctggagaagagcagagatacacatgccaTgtacagcatgagggcTgccg
 aagccccTaccctgagatgggagccgctctcccagTccaccgtccccatcgtgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcggagctgtggTcgctgctgtgataTgtTaggaggaagagCtCaggtgga (配列番号
 : 8 5 3)

10

【 0 3 5 7 】

B*4409 atgCGGGTcACGGGCCCCGAACCCtCtCctGcTgctctGGGGGcagTggccctgaccgagacctgggCCg
 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgCGGGgagccccgcttcatcaccgtgggtac
 gtggacgacacgcTgttCGtgaggttcgacagcgacGCCAcgagTccgaggaaggagccgCGGGcgccatggaTagagca
 ggagggccggagTatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
 TgcgCGGctactacaaccagagcgaggccgggtctcacatcatccagaggaTgtacggctgcgacgtggggccggacggg
 cgctcctccgCGGgtatgaccaggacgctacgacggcaaggatTacaTcgccTgaacgaggacctgagctcctggac
 cgggcggaacaccgCGGctcagatcaccagcgcaagTgggagggcccgTgtggcggagcaggaCagagcctaccTgg
 agggcTgtgcgtggagTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcgCGGacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggTcaccctgaggtgctgggcccTgggtcttaccctgcggagatcac
 actgacctggcagcgggaTggcgaggaccaaactcaggacaccgagctTgtggagaccagaccagcaggagatagaacct
 tccagaagTgggacgctgtggTggTgctctctggagaagagcagagatacacatgccaTgtacagcatgagggcTgccg
 aagccccTaccctgagatgggagccgctctcccagTccaccgtccccatcgtgggcatTgtTgctggcctggctgtcct
 a...gcagTgtggTcatcggagctgtggTcgctgctgtgataTgtTaggaggaagagCtCaggtgga (配列番号
 : 8 5 4)

20

30

【 0 3 5 8 】

B*4410 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgCGGGgagccccgcttcatcaccgt
 gggctacgtggacgacacgcTgttCGtgaggttcgacagcgacGCCAcgagTccgaggaaggagccgCGGGcgccatgga
 TagagcaggagggccggagTatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgaccCGcctccgctactacaaccagagcgaggccgggtctcacatcatccagaggaTgtTggctgcgacctggggcc
 cgacgggCGcctcctccgCGGgcaTaaaccagTtagcctacgacggcaaggatTacaTcgccTgaacgaggacctgagct
 cctggaccCGGcggaacaccgCGGctcagatcaccagcgcaagTgggagggcccgTgtggcggagcagcTgagagcc
 tacctggagggcctgtgcgtggagTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号 : 8 5 5)

40

【 0 3 5 9 】

B*4411 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgCGGGgagccccgcttcatcaccgt
 gggctacgtggacgacacgcTgttCGtgaggttcgacagcgacGCCAcgagTccgaggaaggagccgCGGGcgccatgga
 TagagcaggagggccggagTatgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgcaCcccgctcCgctactacaaccagagcgaggccgggtctcacatcatccagaggaTgtTggctgcgacctggggcc
 ggacgggCGcctcctccgCGGgTaTgaccagGacgctacgacggcaaggatTacaTcgccTgaacgaggacctgagct
 cctggaccCGGcggaacaccgCGGctcagatcaccagcgcaagTgggagggcccgTgtggcggagcaggaCagagcc
 tacctggagggcctTgtgcgtggagTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号 : 8 5 6)

50

【 0 3 6 0 】

B*4412 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgCGGGgagccccgcttcatcaccgt

gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccAtgga
 tagagcaggaggggcccggagtaattgggaccggaacacacagatactccaagaccaacacacagacttaccgagagaacctg
 cgcaCcGcgctcCgctactacaaccagagcgaggccgggtctcacatcAtccagaggaagtacggctgcgacgtggggcc
 ggacggcgccctctccgcggtTaTgaccagGacgctacgacggcaaggatfacaTcgcccTgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggccTgtgctgaggTcGctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：857)

【0361】

B*4413 atgcggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccgtgggctac
 gtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccatggaTagagca
 ggagggccggagtaattgggaGcgggagacacagatactccaagaccaacacacagacttaccgagagaacctgcgaccg
 cgctccgctactacaaccagagcgaggccgggtctcacatcAtccagaggaagtacggctgcgacgtggggccggacggg
 cgccctctccgcggtatgaccaggacgctacgacggcaaggatfacaTcgcccTgaacgaggacctgagctcctggac
 cgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtgtggcggagcagctgagagctacctgg
 agggctgtgctgaggTcGctccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggtcaccctgaggtgctgggcccTgggcttctacctgcgagatacac
 actgacctggcagcgggatggcgaggacaaactcaggacaccgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggtggTgctctggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
 aagccccTaccctgagatgggagccgtcttcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagTgtggtcatcggagctgtggtcgctgctgtgatagttaggaggaagagctcaggtgga (配列番号
 : 858)

【0362】

B*4414 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccatgga
 tagagcaggaggggcccggagtaattgggaccgggagacacagatactccaagaccaacacacagacttaccgagagaacctg
 cgaccgcgctccgctactacaaccagagcgaggccgggtctcacatcAtccagaggaagtacggctgcgacgtggggcc
 ggacggcgccctctccgcggtAaccagGacgctacgacggcaaggatfacaTcgcccTgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggccTgtgctgaggTcGctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：859)

【0363】

B*4415 gctcccactccatgaggtatttccacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccatgga
 tagagcaggaggggcccggagtaattgggaccgggagacacagatactccaagaccaacacacagacttaccgagagacctg
 cgcaCcGcgctcCgctactacaaccagagcgaggccgggtctcacactTggcagaggaagtattggctgcgacctggggcc
 cgacggcgccctctccgcggtAaaccagTAgcctacgacggcaaggatfacaTcgcccTgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggccTgtgctgaggTcGctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：860)

【0364】

B*4416 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccAtgga
 tagagcaggaggggcccggagtaattgggaccgggagacacagatactccaagaccaacacacagacttaccgagagaacctg
 cgCaccGcgctccgctactacaaccagagcgaggccgggtctcacatcAtccagaggaagtacggctgcgacgtggggcc
 ggacggcgccctctccgcggtTaTgaccagGacgctacgacggcaaggatfacaTcgcccTgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggcgagTgctgaggTggctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
 列番号：861)

【0365】

10

20

30

40

50

B*4417 gctcccactccatgaggtattttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccg
 gggctacgtggacgacacgcgtgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccaTgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacatcatccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggTatgaccagTcgcctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggccTgtgctgaggTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：862)

【0366】

B*4418 atgcggttacggcaccggaacctcctcctgctgctcctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatttccacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccgTggctac
 gtggacgacacgcgtgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccaTggaTagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctgcggaTcg
 cgctcCgctactacaaccagagcgaggccgggtctcacacttggcagaggatgtaTggctgcgacctggggcccgcggg
 cgctcctccgcgggTataaccagtTAgcctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgggcggacaccgcggtcagatcacccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagccacctgg
 agggcctgtgctgaggTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配列番号：
 863)

【0367】

B*4420 gctcccactccatgaggtattttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccg
 gggctacgtggacgacacgcgtgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccaTgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagacgattgtaTggctgcgacgtggggcc
 ggacgggcccctcctccgcgggTatgaccagGacgctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggccTgtgctgaggTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：864)

【0368】

B*4421 gctcccactccatgaggtattttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccg
 gggctacgtggacgacacgcgtgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccaTgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgcaCcGcgtcCgctactacaaccagagcgaggccgggtctcacatcAtccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggTatgaccagGacgctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggcgagTgtgctgaggTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：865)

【0369】

B*4422 gctcccactccatgaggtattttctacaccgcccTgtcccggcccggccgcggggagccccgcttcatcaccg
 gggctacgtggacgacacgcgtgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgccaTgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgcaCcGcgtcCgctactacaaccagagcgaggccgggtctcacatcAtccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgcgggTatgaccagGacgctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcacccagcgcaagtgggagggcgcccgtgtggcggagcaggaCagagcc
 tacctggagggccTgtgctgaggTcgtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：866)

【0370】

B*4424 gctcccactccatgaggtattttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcaccg
 gggctacgtggacgacacgcgtgttcgtgaggttcgacagcgacgccAcgagtcgaggaaggagccgcgggcgcccTggg
 tGgagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacatcatccagaggatgtacggctgcgacgtggggcc

10

20

30

40

50

ggacgggcgccctcccggggtatgaccaggacgcctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggaggcgcccggtggcggagcaggacagagcc
 tacctggagggcctgtgctggagtCgctccgcagatacctggagaacgggaaggagacgctgcagcgcgCGg (配
 列番号: 867)

【0371】

B*4425 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g t a c g t g g a c g a c a c g c t g t t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g g a g a c a c a g a t c t C c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g g a T c G c g c t c G c t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c A t c c a g a g g a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g T a t g a c c a g t a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c c T g t g c g t g g a g t C g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c G g (配
 列番号: 868)

【0372】

B*4426 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g t a c g t g g a c g a c a c g c t g t t G g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g c a c c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c a t c c a g a g g a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g T a t g a c c a g g a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a g c c
 t a c c t g g a g g g c c T g t g c g t g g a g t c g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号: 869)

【0373】

B*4427 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g t a c g t g g a c g a c a c g c t g t t c g t g a g g t t c g a c a g c g a c g c c A c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g c a c c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c a t c c a g a g g a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g T a t g a c c a g G a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g g a C a g a g c c
 t a c c t g g a g g g c c T g t g c g t g g a g t C g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g a c c c c c
 a a g a c a c a t g t g a c c a c c a c c c a t c t c t g a c c a t g a g g c a c c c t g a g g t g c t g g g c c t g g g c t t c t a c c c t g c g g
 a g a t c a c a c t g a c c t g g c a g c g g g a t g g c g a g g a c c a a a c t c a g g a c a c C g a g c t g t g g a g a c c a g a c c a g c a g g a g a t
 a g a a c c t t c c a g a a g t g g g c a g c t g t g g t g g t g c c t t c t g g a g a a g a g c a g a g a t a c a c a t g c c a t g t a c a g c a t g a g g g
 g c t g c c a a g c c c c t c a c c c t g a g a t g g g (配列番号: 870)

【0374】

B*4428 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g t a c g t g g a c g a c a c g c t g t t c g t g a g g t t c g a c a g c g a c g c c A c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g c a c c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c a t c c a g a g g a t g t a T g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g T a t g a c c a g G a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c C g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g T g g c g g a g c a g c g g a g a g c c
 t a c c t g g a g g g c c T g t g c g t g g a g t C g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c G g (配
 列番号: 871)

【0375】

B*4429 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c a c c g t
 g g g t a c g t g g a c g a c a c g c t g t t c g t g a g g t t c g a c a g c g a c g c c A c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g g a g a c a c a g a t c t c c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g c a c c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a t c a t c c a g a g g a t g t a c g g c t g c g a c g t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g T a t g a c c a g G a c g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c C g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g T g g c g g a g c a g c g g a g a g c c
 t a c c t g g a g g g c c T g t g c g t g g a g t C g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c G g (配
 列番号: 871)

10

20

30

40

50

tacctggagggcctgtgctggagtCgctccgcagataacctggagaacgggaaggagacgctgcagcgcgGg (配
列番号：872)

【0376】

B*4430 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccggggagccccgcttcatcaccgt
gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgccccgcca
tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacatcatccagaggatgtacggctgcgacgtggggcc
ggacggcgccctctccgccccggtatgaccaggacgacctacgacggcaaggattacatcgccccgaacgaggacctgagct
cctggaccgccccggacaccgccccggtcagatcaccagcgcaagtgggagggccccggtgtggcggagcagctgagagcc
tacctggagggcctgtgctggagtgcctccgcagataacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号：873)

10

【0377】

B*4431 atgccccggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccccgaccgagacctgggccc
gctcccactccatgaggtatttctacaccgccaagtcccggcccggccggggagccccgcttcatcaccgtgggctac
gtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgccccgcca
tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacgtggggccggacggg
cgccctctccgccccgataaccagtacgacctacgacggcaaggattacatcgccccgaacgaggacctgcgctctggac
cgccgccccgacacggcggtcagatctcccagcgcaagtTggagggccccggtgtggcggagcagctgagagccacctgg
agggcgagtgctggagtCgctccgcagataacctggagaacgggaaggacaagctggagcgcgctgacccccaaagaca
cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggttcttacctgccccgagatcac
actgacctggcagccccggtggcagggacaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
tcagaagtgggagcgtgtggtgggtgcttctggagaagagcagagatacacatgccaagtacagcatgaggggctgccg
aagccccctaccctgagatggg (配列番号：874)

20

【0378】

B*4432 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccggggagccccgcttcatcaccgt
gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgccccgcca
tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacatcatccagaggatgtacggctgcgacgtggggcc
ggacggcgccctctccgccccggtatgaccaggacgacctacgacggcaaggattacatcgccccgaacgaggacctgagct
cctggaccgccccggacaccgccccggtcagatcaccagcgcaagtgggagggccccggtgtggcggagcagctgagagcc
tacctggagggcctgtgctggagtCgctccgcagataacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号：875)

30

【0379】

B*4433 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccggggagccccgcttcatcaccgt
gggctacgtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgccccgcca
tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacatcatccagaggatgtacggctgcgacgtggggcc
ggacggcgccctctccgccccggtatgaccaggacgacctacgacggcaaggattacatcAccctgaacgaggacctgagct
cctggaccgccccggacaccgccccggtcagatcaccagcgcaagtgggagggccccggtgtggcggagcaggacagagcc
tacctggagggcctgtgctggagtgcctccgcagataacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号：876)

40

【0380】

B*4501 atgccccggtcacggcaccgccgaacctcctcctgctgctctcgccccggccccggccccgacctggcccc
gctcccactccatgaggtatttccacaccgccaagtcccggcccggccggggagccccgcttcatcaccgtgggctac
gtggacgacacgctgttcgtgaggttcgacagcgacgccacgagtcgaggaaggagccgccccgcca
tagagcaggagggccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagacctg
cgcaccgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagaggatgtatggctgcgacctggggccccgacggg
cgccctctccgccccggtataaccagtAgcctacgacggcaaggattacatcgccccgaacgaggacctgagctcctggac
cgccccggacaccgccccggtcagatcaccagcgcaagtgggagggccccggtgtggcggagcaggacagagccacctgg

50

agggcctgtgcggtggagtCgctccgcagataacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggccaccctgaggtgctgggcccgggcttctacctgicggagatcac
 actgaccctggcagcgggatggcgaggaccaaactcaggacacCgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgcc
 aagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctActgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 877)

【0381】

B*4502 gctcccactccatgaggtat t tccacaccgcca t g t cccggcccggccgaggaggacccccgct t cat caccgt
 gggctacgtggacgacacgc t g t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagactTaccgagagagcctg
 cggaaactgicgicggctactacaaccagagcagggccgggtctcacacttggcagaggatgtatggctgicgacctggggcc
 cgacgggicgctcctccgicgggTataaccagtTgcctacgacggcaaggat taca t c g c c c t g a a c g a g g a c c t g a g c t
 cctggaccgicggcggacaccgicggctcagatcaccagcgaagtgggagggcggcccgtgtggcggagcaggacagagcc
 tacctggagggcctgtgicgtggagtCgctccgcagataacctggagaacgggaaggagacgctgcagcgcgCg (配
 列番号 : 878)

10

【0382】

B*4503 gctcccactccatgaggtat t tccacaccgcca t g t cccggcccggccgaggaggacccccgct t cat caccgt
 gggctacgtggacgacacgc t g t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagact t accgagagagcctg
 cggaaactgicgicggctactacaaccagagcagggccgggtctcacacttggcagaggatgtatggctgicgacctggggcc
 cgacgggicgctcctccgicgggTataaccGgttagcctacgacggcaaggat taca t c g c c c t g a a c g a g g a c c t g a g c t
 cctggaccgicggcggacaccgicggctcagatcaccagcgaagtgggagggcggcccgtgtggcggagcaggacagagcc
 tacctggagggcctgtgicgtggagtCgctccgcagataacctggagaacgggaaggagacgctgcagcgcgCg (配
 列番号 : 879)

20

【0383】

B*4504 atgicgggtcacggcaccgcaaccgtcctcctgctgctctcggicggccc tggccc t g a c c g a g a c c t g g g c c g
 gctcccactccatgaggtat t tccacaccgcca t g t cccggcccggccgaggaggacccccgct t cat caccgtgggctac
 gtggacgacacgc t g t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a t a g a g c a
 ggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagact t accgagagagcctgicgaaacc
 tgcgicggctactacaaccagagcagggccgggtctcacacttggcagaggatgtatggctgicgacctggggcccagcggg
 cgcctcctccgicgggTataaccagt tAgcctacgacggcaaggat taca t c g c c c t g a a c g a g g a c c t g a g c t c c t g g a c
 cgicggcggacaccgicggctcagatcaccagcgaagtgggagggcggcccgtgtggcggagcaggacagagcc tacctgg
 agggcctgtgicgtggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccaccccatctctgaccatgaggccaccctgaggtgctgggcccgggcttctacctgicggagatcac
 actgaccctggcagcgggatggcgaggaccaaactcaggacacCgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgcc
 aagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctActgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 880)

30

40

【0384】

B*4505 gctcccactccatgaggtat t tccacaccgcca t g t cccggcccggccgaggaggacccccgct t cat caccgt
 gggctacgtggacgacacgc t g t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagact t accgagagagcctg
 cggaaactgicgicggctactacaaccagagcagggccgggtctcacacttggcagaggatgtatggctgicgacctggggcc
 cgacgggicgctcctccgicgggTataaccagt tagcctacgacggcaaggat taca t c g c c c t g a a c g a g g a c c t g a g c t
 cctggaccgicggcggacaccgicggctcagatcaccagcgaagtgggagggcggcccgtgtggcggagcaggacagagTc
 tacctggagggcctgtgicgtggagtCgctccgcagataacctggagaacgggaaggagacgctgcagcgcg (配列番
 号 : 881)

【0385】

50

B*4506 gctcccactccatgaggatatttccacaccgccaagtcccggcccggccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccatgga
 tagagcaggaggggcccggagatattgggaccgggagacacagatctacaaggcccaggcacagactgaccgagagaccgtg
 cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacttggcagaggaagtatggctgcgacctggggcc
 cgacgggcccctctccgcggtTataaccagttAgcctacgacggcaaggatatactgcccgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcacccagcgcaagtgggagggcgcccgttggcgagcaggaCagagcc
 tacctggagggcctgtgctggagtCgctccgcagataacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号：882)

【0386】

B*4601 atgcggtcacggcgccccgaacctcctcctgctgctctcgaggccctggccctgaccgagacctgggccc
 gctcccactccatgaggatatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagtgggtac
 gtggacgacaccagttctgtgaggttcgacagcgacgcccgagtcgaggaaggcgccccggcgccatgga tagagca
 ggaggggcccggagatattgggaccgggagacacagaagtaaacGgccaggcacagactgaccgagtgagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaagtacggctgcgacgtggggccggacggg
 cgctcctccgcggtcagaccagtcgacctacgacggcaaggatatactgcccgaacgaggacctgagctcctggac
 cgcgcgacacggcggtcagatcacccagcgcaagtgggagggcgcccgtgaggcgagcagtgagagacctacctgg
 agggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 catgtgaccaccaccatctctgacctgaggccacctgaggtgctgggcccgggctctacctgcgagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacaccgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggagcgtgtggggctctgggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggctcatcggagctgtggctcgctactgtgtagtgtaggaggaagagCtcaggtgga (配列番号
 : 883)

【0387】

B*4602 gctcccactccatgaggatatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttctgtgaggttcgacagcgacgcccgagtcgaggaaggcgccccggcgccatgga
 tagagcaggaggggcccggagatattgggaccgggagacacagaagtaaacGgccaggcacagactgGccgagtgacctg
 cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggaagtacggctgcgacgtggggcc
 ggacgggcccctctccgcggtcagaccagtcgacctacgacggcaaggatatactgcccgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcacccagcgcaagtgggagggcgcccgtgaggcgagcagtgagagacc
 tacctggagggcctgtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcg (配
 列番号：884)

【0388】

B*470101 atgcggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 tggctcccactccatgaggatatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcaccgtgggt
 acgtggacgacacgctgttctgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccatgga tagag
 caggaggggcccggagatattgggaccgggagacacagatctcaagaccaacacacagacttaccgagaggacctgcggac
 cctgctccgctactacaaccagagcgaggccgggtctcacacctccagaggaagtattggctgcgacgtggggccggacg
 ggcgctcctccgcggtaccaccaggacgctacgacggcaaggatatactgcccgaacgaggacctgagctcctgg
 accgcccggacacggcggtcagatcacccagcgcaagtgggagggcgcccgttggcgagcagctgagagacctacct
 ggagggcgagtgctggagtggctccgcagataacctggagaacgggaaggagacgctgcagcgcgggacccccaaaga
 cacagtgaccaccaccatctctgacctgaggccacctgaggtgctgggcccgggctctacctgcgagatc
 acactgacctggcagcgggatggcgaggacaaactcaggacactgagctgtggagaccagaccagcaggagatagaac
 ctccagaagtgggagcgtgtggggctctgggagaagagcagagatacacatgccatgtacagcatgaggggctgc
 cgaagccccaccctgagatgggagcgtcttcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtc
 cta...gcagttgtggctcatcggagctgtggctcgctgctgtGtggtgtaggaggaagagctcaggtgga (配列番
 号：885)

【0389】

B*4702 gcggtcacggcgccccgaacctcctcctgctgctctggggggcagtgccctgaccgagacctgggctggc
 tcccactccatgaggatatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcaccgtgggctacgt

10

20

30

40

50

ggacgacacgctgttctgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgccatggatagagcagg
 aggggccggagtat tgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacctg
 cgcggtactacaaccagagcgaggccgggtctcacacctccagagga tgtTggctgcgacgtggggccggacggg
 cctcctccgcggtaccaccaggacgcttacgacggcaaggat taca tgcctgaacgaggacctgagctcctggaccg
 ccgcgacacggcggtcagatcaccagcgcaagtgggagggcccggtTggcgagcagcTgagagcctacc tggag
 ggcgagtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgacccccaaagacaca
 cgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggccc tgggCtctacctgcggagatcacac
 tgacctggcagcgggatggcgaggacaaactcaggacactgagctgtggagaccagaccagcaggagatagaaccttc
 cagaagtgggcagctgtggtggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccga
 gcccctcaccctgagatgggagccgtctcc (配列番号：886)

10

【0390】

B*4703 gctcccactccatgaggtat tctacaccgcca tgcggcccgccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaacctgctCgctactacaaccagagcgaggccgggtctcacacctccagagga tgtTggctgcgacgtggggcc
 ggacggcgccctcctccgcggtaccaccagGacgcttacgacggcaaggat taca tgcctgaacgaggacctgagct
 cctggaccgcccggacacggcggtcagatcaccagcgcaagtgggagggcccggtTggcgagcagcTgagagcc
 tactggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号：887)

20

【0391】

B*4704 gctcccactccatgaggtat tctacaccgcca tgcggcccgccgcggggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttcgacagcgacgccacgagtcgaggaaggagccgcgggcgcca t gga
 tagagcaggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacAcacagacttaccgagagaacctg
 cgcaCcgCgctCgctactacaaccagagcgaggccgggtctcacacctccagaaTatgtaggtgcgacgtggggcc
 ggacggcgccctcctccgcggtaccaccagGacgcttacgacggcaaggat taca tgcctgaacgaggacctgagct
 cctggaccgcccggacacggcggtcagatcaccagcgcaagtgggagggcccggtTggcgagcagcTgagagcc
 tactggagggcgagtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcGg (配
 列番号：888)

【0392】

B*4801 atgctggatcatggcgccccgaacctcctcctgctgctctcgcgggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat tctacacctcgtgtcccggcccgccgcggggagccccgcttcatctcagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtgga tagagca
 ggaggggcccggagtat tgggaccgggagacacagatctccaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctcctccgcgggcataaccagtacgcttacgacggcaaggat taca tgcctgaacgaggacctgagctcctggac
 cgccgcgacacggcggtcagatctcccagcgcaagtgggagggcccggtTggcgagcagcTgagagcctacc tgg
 agggcgagtgctggagtggtccgcagatacctggagaacgggaaggacaagctggagcgcgctgacccccaaagaca
 cacgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggccc tgggttctacctgcggagatcac
 actgacctggcagcgggatggcgaggacaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtggAcagctgtggtggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctcaccctgagatgggagccgtctcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcgagctgtggtcgctgctgtgtagtaggaagagt t caggtgga (配列番号
 : 889)

30

40

【0393】

B*4802 gtccctcctgctgctctcgcgggccctggccctgaccgagacctgggcccgtcccactccatgaggtat tct
 acacctcgtgtcccggcccgccgcggggagccccgcttcatctcagtgggctacgtggacgacaccagttcgtgagg
 ttcgacagcgaccccgagtcgagagaggagccgcgggcgccgtgga tagagcaggaggggcccggagtat tgggaccg
 ggagacacagatctCcaagaccaacAcacagacttaccgagagagcctgcggaacctgcgcggtactacaaccagagcg
 agggccgggtctcacatcAtccagagga tgtTggctgcgacctggggcccgacggcgccctcctccgcgggcatagaccag
 tCgcttacgacggcaaggat taca tgcctgaacgaggacctgAgctcctggaccgcccggacaccgcccgtcagat

50

caccagcgcaagtgggaggcggcccgtgTggcggagcagcTgagagcctacctggagggccTgtgctggagtggctcc
 gcagatacctggagaacgggaaggagacgctgcagcgcgcggacccccaaagacacacgtgaccaccaccccGtctct
 gaccatgagggccacctgaggtgctgggcccctgggcttctacctgaggagatcacactgacctggcagcgggatggcga
 ggaccaaactcaggacactgagcttgggagaccagaccagcaggagatagaacctccagaagtgggcagctgtggtgg
 tgcctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccgaagccccaccctgagatgggag
 ccatcttcccagtcaccatccccatcggggcatgtgtgctggcctggctgtccta...gcagttgtggtcatcggagc
 tgtggtcgctactgtgatgttaggaggaagagCtcaggtgga (配列番号：890)

【0394】

B*4803 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgcgacgcccgcgagttccgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctg
 cggaaactgcgcggctactacaaccagagcggaggccgggtctcacacctccagagGatgtacggctgcgacgtggggcc
 ggacgggcccctctccgccccatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgcccgcggacacggcggctcagatctcccagcgaagtTggaggcggcccgtgTggcggagcagctgagagcc
 tactggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：891)

10

【0395】

B*4804 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgcgacgcccgcgagttccgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaactgcgcggctactacaaccagagcggaggccgggtctcacacctccagagcatgtacggctgcgacgtggggcc
 ggacgggcccctctccgccccatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgcccgcggacacggcggctcagatctcccagcgaagtTggaggcggcccgtgTggcggagcagctgagagcc
 tactggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgGaccccc
 aaagacacacgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggttctacctgagg
 agatcacactgacctggcagcgggatggcaggaccaaacacaggacactgagctgtggagaccagaccagcaggagat
 agaacctccagaagtggAcagctgtgggggtgctctggagaagagcagagatacacatgccatgtacagcatgaggg
 gctgccgaagccccaccctgagatggg (配列番号：892)

20

【0396】

B*4805 atgctgggtcatggcggcccgaacctcctcctgctgctctcgccggcccggcccgggagccccgcttcatctcCgtgggtac
 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgccccgagccccgcttcatctcCgtgggtac
 gtggacgacacccagttcgtgaggttcgacagcgcgacgcccgcgagttccgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacc
 tgcgcggctactacaaccagagcggaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
 cgctctccgccccatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgctctggac
 cggcgggacacggcggctcagatcacccagcgaagtgggagggcccgtgaggcggagcagcggagagcctacctgg
 agggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配列番号：
 893)

30

【0397】

B*4806 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgcgacgcccgcgagttccgagagaggagccgccccgctgga
 tagagcaggaggggcccggagtattgggaccgggaacacacagatctTcaagaccaacacacagactTaccgagagagcctg
 cggaaactgcgcggctactacaaccagagcggaggccgggtctcacacctccagagcatgtacggctgcgacgtggggcc
 ggacgggcccctctccgccccatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgcgct
 cctggaccgcccgcggacacggcggctcagatctcccagcgaagtTggaggcggcccgtgTggcggagcagctgagagcc
 tactggagggcgagtgctggagtggctccgcagatacctggagaacgggaaggacaagctggagcgcgctg (配
 列番号：894)

40

【0398】

B*4807 gctcccactccatgaggtatttctacacctccgtgtcccggcccggccgcggggagccccgcttcatctcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgcgacgcccgcgagttccgagagaggagccgccccgctgga

50

t agagcaggaggggcccggag t at tgggaccgggagacacagat c tccaagaccaacacacagact t accgagagagcct g
 c ggaacc tgcgcggct actacaaccagagcggaggccgggt c t cacacct ccagagca t g tacggct ggcacgt gggggc
 ggacggggcct cctccgcgggca taaccagt Tcgct tacgacggcaaggat taca tgcctt gaacgaggacct ggcgt
 cctggaccgcccggacacggcggct cagat c tcccagcgcaagt Tggaggcggcccgt gTggcggagcagc t g agagcc
 tacctggagggcgagt g cgtggagt ggc tccgcagat acc tggagaacgggaaggacaagc tggagcgcgt g (配
 列番号 : 8 9 5)

【 0 3 9 9 】

B*4901 atgcggtcaccggcaccggaaccgtcctcctgctgctcctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tccacaccgcca t g tcccggcccggccgcggggagccccgct tcatcaccgtgggtac
 gtggacgacacgc t g t t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a t a g a g c a
 ggaggggcccggagt at tgggaccgggagacacagat c tccaagaccaacacacagact t accgagagaacctgcggtacg
 cgtcCgctactacaaccagagcggaggccgggt c t cacact tggcagaggat g t a t g g c t g c g a c c t g g g g c c c g a c g g g
 cgctcctccgcggtataaccagt tAgcctacgacggcaaggat taca tgcctt gaacgaggacctgagctcctggac
 cgggcggacaccgcggtcagatcaccagcgcaagtgggaggcggcccgtgaggcggagcagcTgagagcc tacc tgg
 agggcctgtgctggagtggctccgcagat acc tggagaacgggaaggagacgc tgcagcgcgggacccccaaagaca
 catgtgaccaccaccatc t c t g a c c a t g a g g c c a c c c t g a g g t g c t g g g c c t g g g c t t c t a c c c t g c g g a g a t c a c
 actgacctggcagcgggatggcgaggaccaaactcaggacacCgagct t g t g g a g a c c a g a c c a g c a g g a g a t a g a a c c t
 tccagaagtgggcagctgtgggggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc taccctgagatgggagccatc t tcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtgggtcatcggagctgtgggtcgctActgtgagtgtgtaggaggaagagCt cagggtgga (配列番号
 : 8 9 6)

10

20

【 0 4 0 0 】

B*4902 tcccactccatgaggtat t tccacaccgcca t g tcccggcccggccgcggggagccccgct tcatcaccgtgg
 gctacgtggacgacacgc t g t t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a t a
 gagcaggaggggcccggagt at tgggaccgggagacacagat c tccaagaccaacacacagact t accgagagaacctgcg
 caCgcgctcCgctactacaaccagagcggaggccgggt c t cacact tggcagaggat g t a t g g c t g c g a c c t g g g g c c c g
 acgggcccctcctccgcggtataaccagt tAgcctacgacggcaaggat taca tgcctt gaacgaggacctgagctcc
 tggaccgcccggacaccgcggtcagatcaccagcgcaagtgggaggcggcccgtgaggcggagcagcTgagagccta
 cctggagggcctgtgctggagtggctccgcagat acc tggagaacgggaaggagacgc tgcagcgcgggacccccaa
 agacacatgtgaccaccaccatc t c t g a c c a t g a g g c c a c c c t g a g g t g c t g g g c c t g g g c t t c t a c c c t g c g g a g
 atcacactgacctggcagcgggatggcgaggaccaaactcaggacacCgagct t g t g g a g a c c a g a c c a g c a g g a g a t a g
 aaccttccagaagtgggcagctgtgggggtgcttctggagaagagcagagatacacatgccatgtacagcatgagggggc
 tggcgaagcccc taccctgagatggg (配列番号 : 8 9 7)

30

【 0 4 0 1 】

B*4903 gctcccactccatgaggtat t tccacaccgcca t g tcccggcccggccgcggggagccccgct tcat tgcagt
 gggctacgtggacgacaccag t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c C g g g g c g c c a t g g a
 tagagcaggaggggcccggagt at tgggaccgggagacacagat c tccaagaccaacacacagact t accgagagaacctg
 cggaTcgctcCgctactacaaccagagcggaggccgggt c t cacact tggcagaggat g t a t g g c t g c g a c c t g g g g c c
 cgacggggcctcctccgcggtataaccagt tAgcctacgacggcaaggat taca tgcctt gaacgaggacctgagct
 cctggaccgcccggacaccgcggtcagatcaccagcgcaagtgggaggcggcccgtgaggcggagcagcTgagagcc
 tacctggagggcctgtgctggagtggctccgcagat acc tggagaacgggaaggagacgc tgcagcgcgcGg (配
 列番号 : 8 9 8)

40

【 0 4 0 2 】

B*5001 atgcggtcaccggcaccggaaccgtcctcctgctgctcctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tccacaccgcca t g tcccggcccggccgcggggagccccgct tcatcaccgtgggtac
 gtggacgacacgc t g t t c g t g a g g t t c g a c a g c g a c g c c a c g a g t c c g a g g a a g g a g c c g c g g g c g c c a t g g a t a g a g c a
 ggaggggcccggagt at tgggaccgggagacacagat c tccaagaccaacacacagact t accgagagagacctgcggaacc
 tgcgcggctactacaaccagagcggaggccgggt c t cacact tggcagaggat g t a t g g c t g c g a c c t g g g g c c c g a c g g g
 cgctcctccgcggtataaccagt tAgcctacgacggcaaggat taca tgcctt gaacgaggacctgagctcctggac
 cgggcggacaccgcggtcagatcaccagcgcaagtgggaggcggcccgtgaggcggagcagcTgagagcc tacc tgg

50

agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccaccccatctctgacatgaggccaccctgaggtgctgggcccgggcttctacctgctggagatcac
 actgaccctggcagcgggatggcgaggaccaaactcaggacacCgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctActtgtatgtgtaggaggaagagCtcaggtgga (配列番号
 : 899)

【0403】

B*5002 atgctgggtcacggcaccggaaccgtcctcctgctgctcctcgggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtatctccacaccgccaatgtcccggcccggccgaggagccccgcttcatcaccgtgggctac
 gtggacgacacgctgttctgtgaggttcgacagcgcgaccagagtcggaggaaggagccgaggcgccatgga tagagca
 ggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctgcggaacc
 tgcgaggctactacaaccagagcagggccgggtctcacacttggcagaggatgtaggtgctgagacctggggcccggcggg
 cgctcctccgagggtataaccagttAgcctacgacggcaaggattacatcgccc tgaacgaggacctgagctcctggac
 cgggcgacaccgaggctcagatcaccagcgcgaagtgggagggggcccgtgaggcggagcagcTgagagcctacctgg
 agggcctgtgctggagtgctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 catgtgaccaccaccccatctctgacatgaggccaccctgaggtgctgggcccgggcttctacctgctggagatcac
 actgaccctggcagcgggatggcgaggaccaaactcaggacacCgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctActtgtatgtgtaggaggaagagCtcaggtgga (配列番号
 : 900)

【0404】

B*5004 gctcccactccatgaggtatctccacaccgccaatgtcccggcccggccgaggagccccgcttcatcaccgt
 gggctacgtggacgacacgctgttctgtgaggttcgacagcgcgaccAgagtcggaggaaggagccgaggcgccatgga
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagagcctg
 cggaaacctgcgaggctactacaaccagagcagggccgggtctcacacttggcagaggatgtacggctgctgagctggggcc
 cgacgggcccctcctccgagggtataaccagttAgcctacgacggcaaggattacatcgccc tgaacgaggacctgagct
 cctggaccgcccggacaccgaggctcagatcaccagcgcgaagtgggagggggcccgtgaggcggagcagcTgagagcc
 tactggagggcTgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号 : 901)

【0405】

B*510101 atgctgggtcacggcggccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 cggctcccactccatgaggtatctctacaccgccaatgtcccggcccggccgaggagccccgcttcatTgcagtgggct
 acgtggacgacaccagctcgtgaggttcgacagcgcgaccgagtcggagaccggagccccgggcccagatgga tagag
 caggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctgcggat
 cgctcCgctactacaaccagagcagggccgggtctcacacttggcagaCgatgtatggctgctgagctggggcccggacg
 ggcgctcctccgagggcaataaccagtacgctacgacggcaagattacatcgccc tgaacgaggacctgagctcctgg
 accgaggcggacaccgaggctcagatcaccagcgcgaagtgggagggggcccgtgaggcggagcagcTgagagcctacct
 ggagggcctgtgctggagtggtccgcagaCacc tggagaacgggaaggagacgctgcagcgcgaggacccccaaaga
 cacagctgaccaccaccccGtctctgacatgaggccaccctgaggtgctgggcccgggcttctacctgctggagatc
 aactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgc
 cgaagccccctaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtc
 cta...gcagttgtggtcatcggagctgtggtcgctacttgtatgtgtaggaggaagagCtcaggtgga (配列番
 号 : 902)

【0406】

B*510102 atgctgggtcacggcggccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 cggctcccactccatgaggtatctctacaccgccaatgtcccggcccggccgaggagccccgcttcatcgcagtgggct
 acgtggacgacaccagctcgtgaggttcgacagcgcgaccgagtcggagaccggagccccgggcccagatgga tagag

10

20

30

40

50

caggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctgcggtacgctcCgctactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatggctgcgacgtggggccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaagattacatcgccctgaacgaggacctgagctcctggaccgcgggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagctacctggagggcctgtgctgtggagtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgggacccccaaagacacacgtgaccaccaccccGtctctgacctgaggccacctgagggtgctgggcccctgggcttctacctgcgagatcacactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaaccttccagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgccatgtacagcatgagggcctgcgaagccccctaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtccta...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番号: 903)

10

【0407】

B*510103 gctcccactccatgaggatttctacaccgccaatgtcccggcccggccgcccgggagccccgcttcatTgcatgtgggtacgtggacgacaccagttcgtagggttcgacagcgcgcccggagctccgaggacggagccccgggcccgtggatagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctgcggtacgctcCgctactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatTggctgcgacgtggggccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaAgattacatcgccctgaacgaggacctgAgctcctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagcctacctggagggcTgtgctgtggagtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgagg (配列番号: 904)

20

【0408】

B*510104 gctcccactccatgaggatttctacaccgccaatgtcccggcccggccgcccgggagccccgcttcatTgcatgtgggtacgtggacgacaccagttcgtagggttcgacagcgcgcccggagctccgaggacggagccccgggcccAtgtagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctgcggtacgctcCgctactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatTggctgcgacgtggggccggacggcgccctcctccgcgggcataAaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgAgctcctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagcctacctggagggcTgtgctgtggagtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgagg (配列番号: 905)

30

【0409】

B*510105 atgcccgtcacggcggcccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggcccggctcccactccatgaggatttctacaccgccaatgtcccggcccggccgcccgggagccccgcttcatTgcatgtgggtacgtggacgacaccagttcgtagggttcgacagcgcgcccggagctccgaggacggagccccgggcccatagtagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctgcggtacgctcCgctactacaaccagagcgggcccgggtctcacacttggcagacgatgtatggctgcgacgtggggccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaagattacatcgccctgaacgaggacctgagctcctggaccgcgggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagctgagagctacctggagggcctgtgctgtggagtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgggacccccaaagacacaTgtgaccaccaccccGtctctgacctgaggccacctgagggtgctgggcccctgggcttctacctgcgagatcacactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaaccttccagaagtgggcagctgtggtggcgcttctggagaagagcagagatacacatgccatgtacagcatgagggcctgcgaagccccctaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtccta...gcagttgtggtcatcggagctgtggtcgctactgtgatgtgtaggaggaagagCtcag (配列番号: 906)

40

【0410】

B*510201 atgcccgtcacggcggcccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggcccggctcccactccatgaggatttctacaccgccaatgtcccggcccggccgcccgggagccccgcttcatTgcatgtgggtacgtggacgacaccagttcgtagggttcgacagcgcgcccggagctccgaggacggagccccgggcccatagtagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctgcggtacgctcCgctactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatggctgcgacgtggggccggacg

50

ggcgccctcctccgcgggcataaaccagtacgacctacgacggcaaAgat tacatcgccctgaacgaggacctgAgctcctgg
 accgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagcTgagagcc tacct
 ggagggccTgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaaga
 cacacgtgaccaccaccGtctctgacctgaggccacctgaggtgctgggccc tggcttctacctgcgagatc
 aactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtggtgggcttctggagaagagcagagatacacatgccatgtacagcatgagggcctgc
 cgaagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtagggcatgttgcctggctggctgtc
 cta...gcagtgtggtcatcggagctgtggtcgctactgtgatgttaggaggaagagCtcaggtgga (配列番
 号: 907)

【0411】

10

B*510202 atgcggggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 cggctcccactccatgaggtatcttacaccgccaatgtcccggcccgccgaggagccccgcttcatcgagtgggct
 acgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcaggagcggagccccggcgccatgga tagag
 caggagggccggagtatgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctgcggt
 cgctcCgctactacaaccagagcaggccgggtctcacacttggcagaCgatgtatggctgagcgtggggccggacg
 ggcctcctccgcgggcataaaccagtacgacctacgacggcaaAgat tacatcgccctgaacgaggacctgAgctcctgg
 accgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagcTgagagcc tacct
 ggagggccTgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaaga
 cacacgtgaccaccaccGtctctgacctgaggccacctgaggtgctgggccc tggcttctacctgcgagatc
 aactgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtggtgggcttctggagaagagcagagatacacatgccatgtacagcatgagggcctgc
 cgaagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtagggcatgttgcctggctggctgtc
 cta...gcagtgtggtcatcggagctgtggtcgctactgtgatgttaggaggaagagCtcaggtgga (配列番
 号: 908)

20

【0412】

B*5103 atgcggggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtatcttacaccgccaatgtcccggcccgccgaggagccccgcttcatcgagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcaggagcggagccccggcgccatgga tagagca
 ggagggcccgagtatgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctgcggtcg
 cgctccgctactacaaccagagcaggccgggtctcacacttggcagacgatgtatggctgagcgtggggccggacggg
 cgctcctccgcgggcataaaccagtacgacctacgacggcaaagat tacatcgccc tgaacgaggacctgagctcctggac
 cgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagcTgagagcc tacctgg
 agggctgtgctggagGggctccgcagacacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccaccGtctctgacctgaggccacctgaggtgctgggccc tggcttctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggcttctggagaagagcagagatacacatgccatgtacagcatgagggcctgcc
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtagggcatgttgcctggctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgatgttaggaggaagagctcaggtgga (配列番号
 : 909)

30

【0413】

40

B*5104 atgcggggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtatcttacaccgccaatgtcccggcccgccgaggagccccgcttcatcgagtgggctac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcaggagcggagccccggcgccatgga tagagca
 ggagggcccgagtatgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctgcggtcg
 cgctccgctactacaaccagagcaggccgggtctcacatcA tccagaggatgtatggctgagcgtggggccggacggg
 cgctcctccgcgggcataaaccagtacgacctacgacggcaaagat tacatcgccc tgaacgaggacctgagctcctggac
 cgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcccgtagggcggagcagcTgagagcc tacctgg
 agggctgtgctggagtggtccgcagaCacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccaccGtctctgacctgaggccacctgaggtgctgggccc tggcttctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct

50

tccagaagtgggcagctgtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtgggtcatcggagctgtgggtcgctactgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 9 1 0)

【 0 4 1 4 】

B*5105 gctcccactccatgaggtatttctacaccgccaagtcccggccccggccgccccgggagccccgcttcatcgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga
 tagagcaggaggggcccggagtttgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctcCgctactacaaccagagcagggccgggtctcacacttggcagacgagtgtatggctgcgacgtggggcc
 ggacgggcccctcctccgccccgataaccagtagcctacgacggcaaAgattacatcgccccgaacgaggacctgAgct
 cctggaccgccccggacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgTggcggagcagcggagagcc
 tactggagggccTgtgctgaggaggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcccccc
 aaagacacacgtgaccaccaccctGtctctgaccatgaggccaccctgaggtgctgggccccgggcttctaccctgccc
 agatcacactgacctggcagcgggatggcgaggaccaaacTcaggacactgagctgtggagaccagaccagcaggagat
 agaaccttccagaagtgggcagctgtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggg
 gctgccgaagccccaccctgagatggg (配列番号 : 9 1 1)

10

【 0 4 1 5 】

B*5106 gctcccactccatgaggtatttctacaccgccaagtcccggccccggccgccccgggagccccgcttcatTgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga
 tagagcaggaggggcccggagtttgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctcCgctactacaaccagagcagggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgccccgataaccagtagcctacgacggcaaAgattacatcgccccgaacgaggacctgAgct
 cctggaccgccccggacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgaggcggagcagcTgagagcc
 tactggagggccTgtgctgaggaggctccgcagaCaccTggagaacgggaaggagacgctgcagcgcgcccc (配
 列番号 : 9 1 2)

20

【 0 4 1 6 】

B*5107 gctcccactccatgaggtatttctacaccgccaagtcccggccccggccgccccgggagccccgcttcatTgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga
 tagagcaggaggggcccggagtttgggaccggaacacacagatctCcaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctcCgctactacaaccagagcagggccgggtctcacacctccagaggatgtacggctgcgacgtggggcc
 ggacgggcccctcctccgccccgataaccagtagcctacgacggcaaAgattacatcgccccgaacgaggacctgAgct
 cctggaccgccccggacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgaggcggagcagcTgagagcc
 tactggagggccTgtgctgaggaggctccgcagaCaccTggagaacgggaaggagacgctgcagcgcgcccc (配
 列番号 : 9 1 3)

30

【 0 4 1 7 】

B*5108 atgccccgtcacggcgcggcgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaagtcccggccccggccgccccgggagccccgcttcatTgcagtgggctac
 gtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga tagagca
 ggaggggcccggagtttgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctgaggatcg
 cgctccgctactacaaccagagcagggccgggtctcacacttggcagacgagtgtatggctgcgacgtggggccggacggg
 cgctcctccgccccgataaccagtagcctacgacggcaaagattacatcgccccgaacgaggacctgagctcctggac
 cgccggcggacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgTggcggagcaggaCagagccTaccTgg
 agggctgtgctgaggaggctccgcagaCaccTggagaacgggaaggagacgctgcagcgcgccccccaaagaca
 cacgtgaccaccaccctGtctctgaccatgaggccaccctgaggtgctgggccccgggcttctaccctgcccgagatcac
 actgacctggcagcgggatggcgaggaccaaacTcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtgggtcatcggagctgtgggtcgctactgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 9 1 4)

40

【 0 4 1 8 】

50

B*5109 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgccccgggagccccgcttcatTgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga
 tagagcaggaggggcccggagttatgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagacgattgattggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcataaaccagtagcctacgacggcaaatatatacgccctgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcacccagcgcaagtgggagggcgccccgtTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgagg (配
 列番号：915)

【0419】

B*5110 tacaccgccaagtcccggcccggccgccccgggagccccgcttcatTgcagtgggctacgtggacgacacccagtt
 cgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga tagagcaggaggggcccggagttat
 tgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctgcggatcgcgctcGctactaaa
 ccagagcaggccgggtctcacacttggcagaCgattgattggctgcgacgtggggccggacgggcccctcctccgcgggc
 atAaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgctcctggaccgcccggacacggcg
 gctcagatcacccagcgcaagtgggagggcgccccgtTggcggagcagcTgagagccacctggagggcgagtgctgga
 gtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgaggcccccaagacacacgtgaccaccacc
 ccGtctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgcgagatcacactgacctggcagcgg
 gatggcgaggaccaaaactcaggacactgagcttgtggagaccag (配列番号：916)

【0420】

B*5112 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgccccgggagccccgcttcatTgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga
 tagagcaggaggggcccggagttatgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagacgattgattggctgcgacgtggggcc
 ggacgggcccctcctccgcgggcataaaccagtagcctacgacggcaaatatatacgccctgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgagg (配
 列番号：917)

【0421】

B*511301 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgccccgggagccccgcttcatTgca
 gtgggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattg
 gatagagcaggaggggcccggagttatgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacc
 tgccgatcgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagacgattgattggctgcgacgtgggg
 ccggacgggcccctcctccgcgggcataaaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgAg
 ctctggaccgcccggacaccgcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagcTgagag
 cctacctggagggccTgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgagg (配
 列番号：918)

【0422】

B*511302 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgccccgggagccccgcttcatTgca
 gtgggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattg
 gatagagcaggaggggcccggagttatgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacc
 tgccgatcgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagacgattgattggctgcgacgtgggg
 ccggacgggcccctcctccgcgggcataaaccagtagcctacgacggcaaaAgattacatcgccctgaacgaggacctgAg
 ctctggaccgcccggacaccgcggtcagatcacccagcgcaagtgggagggcgccccgtgaggcggagcagcTgagag
 cctacctggagggccTgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgagg (配
 列番号：919)

【0423】

B*5114 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgccccgggagccccgcttcatTgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgccgagtcgagggacggagccccgggcccattgga
 tagagcaggaggggcccggagttatgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctccgctactacaaccagagcgaggccgggtctcacacttggcagacgattgattggctgcgacgtggggcc

10

20

30

40

50

ggacgggcgccctcctccgcgggcataaaAcagtacgcctacgacggcaaagattacatcgccctgaacgaggacctgagct
 cctggaccgcgccgacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
 tacctggagggcctgtgctggagtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号: 9 2 0)

【 0 4 2 4 】

B*5115 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 g g g t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g a a c a c a c a g a t c t t c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g g a t c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c t t g g c a g a c g a t g t a T g g c t g c g a c C t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t t A g c c t a c g a c g g c a a g g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g T g g c g g a g c a g c T g a g a g c c
 t a c c t g g a g g g c c T g t g c t g g a g t g g c t c c g c a g a t a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c G g (配
 列番号: 9 2 1)

【 0 4 2 5 】

B*5116 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t T g c a g t
 g g g t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g a a c a c a c a g a t c t T c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g g a t c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c t t g g c a g a c g a t g t a T g g c t g c g a c t g g g g c c
 g g a c g g g c g c c t c c t c c g c g g g c a t a a c c a g t a c g c c t a c g a c g g c a a A g a t t a c a t c g c c c t g a a c g a g g a c c t g A g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g a g g c g g a g c a g c T g a g a g c c
 t a c c t g g a g g g c g a g t g c g t g g a g t g g c t c c g c a g a C a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号: 9 2 2)

【 0 4 2 6 】

B*5117 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t t g c a g t
 g g g t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g a a c a c a c a g a t c t t c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g g a t c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c t t g g c a g a c g a t g t a t g g c t g c g a c t g g g g c c
 g g a c g g g c g t c t c c t c c g c g g T t a a a c c a g t a c g c c t a c g a c g g c a a a g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g a g g c g g a g c a g c t g a g a g c c
 t a c c t g g a g g g c c t g t g c t g g a g t g g c t c c g c a g a C a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号: 9 2 3)

【 0 4 2 7 】

B*5118 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t t g c a g t
 g g g t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g a a c a c a c a g a t c t t c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g g a t c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c t t g g c a g a c g a t g t a t g g c t g c g a c t g g g g c c
 g g a c g g g c g c c t c c t c c C g g g c a t a a c c a g t a c g c c t a c g a c g g c a a a g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g a g g c g g a g c a g c t g a g a g c c
 t a c c t g g a g g g c c t g t g c t g g a g t g g c t c c g c a g a c a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号: 9 2 4)

【 0 4 2 8 】

B*5119 gctcccactccatgaggtatttctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t T g c a g t
 g g g t a c g t g g a c g a c a c c c a g t t c g t g a g g t t c g a c a g c g a c g c c g c g a g t c c g a g g a c g g a g c c c c g g g c g c c a t g g a
 t a g a g c a g g a g g g g c c g g a g t a t g g g a c c g g a a c a c a c a g a t c t t c a a g a c c a a c a c a c a g a c t t a c c g a g a g a a c c t g
 c g g a t c g c g c t c c g t a c t a c a a c c a g a g c g a g g c c g g g t c t c a c a c t t g g c a g a c g a t g t a t g g c t g c g a c t g g g g c c
 g g a c g g g c g c c t c c t c c C g g g c a t a a c c a g t a c g c c t a c g a c g g c a a a g a t t a c a t c g c c c t g a a c g a g g a c c t g a g c t
 c c t g g a c c g c g g c g g a c a c c g c g g t c a g a t c a c c a g c g c a a g t g g g a g g c g g c c c g t g t g g c g g a g c a g c t g a g a A c c
 t a c c t g g a g g g c c T g t g c t g g a g t g g c t c c g c a g a C a c c t g g a g a a c g g g a a g g a g a c g c t g c a g c g c g c g g (配
 列番号: 9 2 5)

【 0 4 2 9 】

10

20

30

40

50

cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
tacctggagggcctgtgctgaggaggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 931)

【0435】

B*5128 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgccgagtcgaggacggagccccggcgccaTgga
tagagcaggaggggGggagtatTggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
cggatcgcgctccgctactacaaccagagcgaggccgggtctcacactTggcagacgataTggctgcgacgtggggcc
ggacggcgccctctccgcgggcataaaccagtagcctacgacggcaaatTacaTcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
tacctggagggcctgtgctgaggaggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 932)

10

【0436】

B*5129 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgccgagtcgaggacggagccccggcgccaTgga
tagagcaggaggggCggagtatTggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
cggatcgcgctCgctactacaaccagagcgaggccgggtctcacactTggcagaCgataTggctgcgacgtggggcc
ggacggcgccctctccgcgggcataaaccagtagcctacgacggcaaatTacaTcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagcgagagcc
tacctggagggcctgtgctgaggaggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcgaccccc
aaagacacagctgaccaccaccccGtctctgaccatgaggccacctgagggtctgggcccTgggctctTaccTgcgg
agatcacactgacctggcagcgggatggcgaggaccaaacTcaggacactgagctgtTggagaccagaccagcaggagat
agaacctTccagaagtgggcagctgtggTggTgcctctTggagaagagcagagatacacatgccatgtacagcatgaggg
gctgccgaagcccctcacctgagatggg (配列番号: 933)

20

【0437】

B*5130 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgccgagtcgaggacggagccccggcgccaTgga
tagagcaggaggggCggagtatTggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
cggatcgcgctccgctactacaaccagagcgaggccgggtctcacactTggcagacgataTggctgcgacgtggggcc
ggacggcgccctctccgcgggcataaaccagtagcctacgacggcaaatTacaTcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
tacctggagggcctgtgctgaggaggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcgaccccc
aaagacacagctgaccaccaccccGtctctgaccatgaggccacctgagggtctgggcccTgggctctTaccTgcgg
agatcacactgacctggcagcgggatggcgaggaccaaacTcaggacactgagctgtTggagaccagaccagcaggagat
GgaacctTccagaagtgggcagctgtggTggTgcctctTggagaagagcagagatacacatgccatgtacagcatgaggg
gctgccgaagcccctcacctgagatggg (配列番号: 934)

30

【0438】

B*5131 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgccgagtcgaggacggagccccggcgccaTgga
tagagcaggaggggCggagtatTggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
cggatcgcgctccgctactacaaccagagcgaggccgggtctcacactTggcagacgataTggctgcgacgtggggcc
ggacggcgccctctccgcgggcataaaccagtagcctacgacggcaAagatTacaTcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTggcggagcagctgagagcc
tacctggagggcagtgctgaggaggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 935)

40

【0439】

B*5132 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagt
gggctacgtggacgacacccagttcgtgagggtcgacagcgacgccgagtcgaggacggagccccggcgccaTgga
tagagcaggaggggCggagtatTggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
cggatcgcgctccgctactacaaccagagcgaggccgggtctcacactTggcagacgataTggctgcgacgtggggcc
ggacggcgccctctccgcgggcataaaccagtagcctacgacggcaAagatTacaTcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTggcggagcagctgagagcc
tacctggagggcagtgctgaggaggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 935)

50

ggacgggcgccctcctccgcgggcataaaccagtagcctacgacggcaagattacatcgccctgaacgaggacctgagct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
 tactggagggcctgtgctgtaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcgaccccc
 aaagacacacgtgaccaccaccccgctcttgaccatgaggccaccctgaggtgctgggcccgggcttctacctgchg
 agatcacactgacctggcagcgggatggcgaggaccaaacctaggacactgagctgtggagaccagaccagcaggagat
 agaacctccagaagtgggcagctgtgggggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggg
 gctgcTgaagcccctcaccctgagatggg (配列番号：936)

【0440】

B*5133 gctcccacttcatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagctccgaggacggagccccgggcgccAtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
 cggaatcgctcCgctactacaaccagagcggagccgggtctcacacttggcagaCgagttaTggctgcgacgtggggcc
 ggacgggcgccctcctccgcgggcataaaccagtagcctacgacggcaAagattacatcgccctgaacgaggacctgAgct
 cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
 tactggagggcctgtgctgtaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcg (配
 列番号：937)

10

【0441】

B*5134 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgccgagctccgaggacggagccccgggcgccAtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagacttaccgagagaacctg
 cggaatcgctcCgctactacaaccagagcggagccgggtctcacacttggcagaCgagttaTggctgcgacgtggggcc
 ggacgggcgccctcctccgcgggcataaaccagtagcctacgacggcaAagattacatcgccctgaacgaggacctgAgct
 cctggaccgcgccggacacCgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
 tactggagggcgagtgctgtaggtggctccgcagataccggagaacgggaaggagacgctgcagcgcgcg (配
 列番号：938)

20

【0442】

B*520101 atgcggggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 cggctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgagctgggt
 acgtggacgacaccagttcgtgaggttcgacagcgacgccgagctccgaggacggagccccgggcgccatggaatagag
 caggaggggcccggagtattgggaccgggagacacagatctCcaagaccaacacacagacttaccgagagaacctgaggat
 cgctcCgctactacaaccagagcggagccgggtctcacacttggcagaCgagttaTggctgcgacgtggggccggacg
 ggcgccctcctccgcgggcataaaccagtagcctacgacggcaagattacatcgccctgaacgaggacctgagctcctgg
 accgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagccacct
 ggagggcctgtgctgtaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcgacccccaaaga
 cacacgtgaccaccaccccGtcttgaccatgaggccaccctgaggtgctgggcccgggcttctacctgchgagatc
 acactgacctggcagcgggatggcgaggaccaaacctaggacactgagctgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtgggggtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgc
 cgaagcccctcaccctgagatgggagccatcttcccagtcaccatccccatcgtagggcatgtgtgctggcctggctgtc
 cta...gcagttgtgggtcatcggagctgtgggtcgctactgtgatgtgtaggaggaagagCtcaggtgga (配列番
 号：939)

30

40

【0443】

B*520102 gtccctcctgctgctctggggggcagtgccctgaccgagacctgggcccgtcccactccatgaggtattt
 ctacaccgccaagtcccggcccggccgcggggagccccgcttcatTgcagtgggtacgtggacgacaccagttcgtga
 ggttcgacagcgacgccgagctccgaggacggagccccgggcgccatggaatagagcaggaggggcccggagtattgggac
 cgggagacacagatctCcaagaccaacacacagacttaccgagagaacctgaggatcgctcCgctactacaaccagag
 caggccgggtctcacacttggcagaCgagttaTggctgcgacgtggggccggacgggcccctcctccgcgggcataaacc
 agtagcctacgacggcaagattacatcgccctgaacgaggacctgagctcctggaccgcgccggacaccgcggtcag
 atcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagccacctggagggcctgtgctgtaggtggct
 ccgcagacacctggagaacgggaaggagacgctgcagcgcgcgacccccaaagacacacgtgaccaccaccccGtct
 ctgaccatgaggccaccctgaggtgctgggcccgggcttctacctgchgagatcacactgacctggcagcgggatggc

50

gaggacaaactcaggacactgagcttgggagaccagaccagcaggagatagaacctccagaagtgggcagctgtgg
ggtgcccttctggagaagagcagagatacacatgccatgtacagcatgagggctgccgaagccccaccctgagatggg
agccatcttcccagtcacacatccccatcgtgggcatgttgcctggcctggctgtccta...gcagttgtggtcatcgga
gctgtggtcgctactgtgatgttaggaggaagagCtcaggtgga (配列番号: 940)

【0444】

B*520103 gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgccccgagccccgcttcatcgca
gtgggtacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggaCggagccgccccgccaatg
gatagagcaggaggggccccgagttatgggaccgggGacacagatctCcaagaccaacacacagacttaccgagagaacc
tgcggtcgcgctcCgctactacaaccagagcaggccgggtctcacacttggcagaCgattgtaTggctgcgacgtggg
ccggacggcgccctcctccgccccgataaccagtagcctacgacggcaaAgattacatcgccccgaacgaggacctgag
ctcctggaccgccccgacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgagggcggagcagcTgagag
cctacctggagggccTgtgctgaggtggctccgcagaCacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 941)

10

【0445】

B*520104 gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgccccgagccccgcttcatgca
gtgggtacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggaCggagccgccccgccaatg
gatagagcaggaggggccccgagttatgggaccgggGacacagatctccaagaccaacacacagacttaccgagagaacT
tgcggtcgcgctccgctactacaaccagagcaggccgggtctcacacttggcagacgattggtgcgacgtggg
ccggacggcgccctcctccgccccgataaccagtagcctacgacggcaaagattacatcgccccgaacgaggacctgag
ctcctggaccgccccgacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgagggcggagcagcTgagag
cctacctggagggccTgtgctgaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 942)

20

【0446】

B*5202 gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgccccgagccccgcttcatTgcagt
gggtacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggaTggCgccccgggccaatgga
tagagcaggaggggccccgagttatgggaccgggGacacagatctCcaagaccaacacacagacttaccgagagaacctg
cggtcgcgctcCgctactacaaccagagcaggccgggtctcacacttggcagacgattggtgcgacgtggggcc
ggacggcgccctcctccgccccgataaccagtagcctacgacggcaaagattacatcgccccgaacgaggacctgAgct
cctggaccgccccgacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgagggcggagcagcTgagagcc
tacctggagggccTgtgctgaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 943)

30

【0447】

B*5203 gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgccccgagccccgcttcatTgcagt
gggtacgtggacgacaccagttcgtgaggttcgacagcgacgccgagtcgaggaTggCgccccgggccaatgga
tagagcaggaggggccccgagttatgggaccgggGacacagatctCcaagaccaacacacagacttaccgagagaacctg
cggtcgcgctccgctactacaaccagagcaggccgggtctcacacttggcagacgattggtgcgacgtggggcc
ggacggcgccctcctccgccccgataaccagtagcctacgacggcaaagattacatcgccccgaacgaggacctgagct
cctggaccgccccgacaccgccccgctcagatcacccagcgcaagtgggagggccccgtTggcggagcagcTgagagcc
tacctggagggccTgtgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 944)

40

【0448】

B*5204 atgccccgtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccccgaccgagacctgggccc
gctcccactccatgaggtatttctacaccgccatgtcccggccccggccgccccgagccccgcttcatcgagtgggctac
gtggacgacaccagttcgtgaggttcgacagcgacgccgagtcAgaggacggagccccgggccaatggaatagagca
ggaggggccccgagttatgggaccgggGacacagatctccaagaccaacacacagacttaccgagagaacctgcggatcg
cgctccgctactacaaccagagcaggccgggtctcacacttggcagacgattggtgcgacgtggggccccgacggg
cgccctcctccgccccgataaccagtagcctacgacggcaaagattacatcgccccgaacgaggacctgagctcctggac
cgccccgacaccgccccgctcagatcacccagcgcaagtgggagggccccgtgagggcggagcagcTgagagccacctgg
agggcctgtgctgaggtggctccgcagacacctggagaacgggaaggagacgctgcagcgcgcgcccccaagaca
cacgtgaccaccaccctccttgacctgagggccacctgaggtgctgggcccgggctctacctgccccgagatcac

50

actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagcttgtgtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagctcag (配列番号：94
 5)

【0449】

B*5205 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccCcttcatcgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggacggagccccgggcgcca
 tagagcaggaggggcccggagtattgggaccgggagacacagatctccaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctccgctactacaaccagagcggaggccgggtctcacacttggcagacgtagtattggctgcgacctggggcc
 ggacgggcccctctccgcgggcataaacagttacgctacgacggcaagattacatcgcccgaacgaggacctgagct
 cctggaccgcgccggacaccgcccgtcagatcacccagcgaagtgggaggcggcccgtgaggcggagcagctgagagcc
 tacctggagggcctgtgctggtgagtggtccgcagacacctggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号：946)

10

【0450】

B*5301 atgcgggctcacggcggcccgaaccgtcctcctgctgctctggggggcagtgggcctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagtgggctac
 gtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggacggagccccgggcgcca
 ggaggggcccggagtattgggaccggaacacacagatcttcaagaccaacAcacagacttaccgagagaacctg
 cgctcCgctactacaaccagagcggaggccgggtctcacatcAtccagaggatgtaTggctgcgacctggggccc
 cgacctctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgcccgaacgaggacctgAgctcctggac
 cgcgccggacaccgcccgtcagatcacccagcgaagtgggaggcggcccgtgTggcggagcagcTgagagcc
 agggcTgtgctggtgagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcggacccccaaagaca
 cacgtgaccaccaccccGtctctgaccatgaggccacctgaggtgctgggcccgggctctacctg
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagcttgtgtggtgccctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcaggtgga (配列番号
 : 947)

20

【0451】

B*5302 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggacggagccccgggcgcca
 tagagcaggaggggcccggagtattgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagaacctg
 cggatcgcgctcCgctactacaaccagagcggaggccgggtctcacatcattccagaggatgtagtattggctg
 cgacctggggcccgacctctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgccggacaccgcccgtcagatcacccagcgaagtgggaggcggcccgtgTggcggagcagcTgagagcc
 tacctggagggcctTgtgctggtgagtggtccgcagaCacctggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号：948)

30

【0452】

B*5303 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggacggagccccgggcgcca
 tagagcaggaggggcccggagtattgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagGacctg
 cggacctgctccgctactacaaccagagcggaggccgggtctcacatcattccagaggatgtagtattggctg
 cgacctggggcccgacctctccgcgggcatgaccagtccgctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgccggacaccgcccgtcagatcacccagcgaagtgggaggcggcccgtgTggcggagcagcTgagagcc
 tacctggagggcctTgtgctggtgagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：949)

40

【0453】

B*5304 gctcccactccatgaggtatttctacaccgccaagtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggacggagccccgggcgcca
 tagagcaggaggggcccggagtattgggaccggaacacacagatcttcaagaccaacacacagacttaccgagagGacctg
 cggacctgctccgctactacaaccagagcggaggccgggtctcacatcattccagaggatgtagtattggctg
 cgacctggggcccgacctctccgcgggcatgaccagtccgctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgccggacaccgcccgtcagatcacccagcgaagtgggaggcggcccgtgTggcggagcagcTgagagcc
 tacctggagggcctTgtgctggtgagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：949)

50

tagagcaggaggggcccggagtat tggaccggaacacacagatct tcaagaccaacacacagact taccgagagaacct g
 cggatcgcgctcCgctactacaaccagagcggaggccgggtct cacatcatccagaggatgtatggctgcgacctggggcc
 CgacgggcccctcctccgcgggcatgaccagtTcgcc tacgacggcaaggat taca tgccttgaacgaggacctgAgct
 cctggaccgcgggcggacacCgcggtcagatcaccagcgaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagat acc tggagaacgggaaggagacgctgCagcgcgcGg (配
 列番号 : 9 5 0)

【 0 4 5 4 】

B*5305 gctcccactccatgaggat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtagggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccata gga
 tagagcaggaggggcccggagtat tggaccggaacacacagatct tcaagaccaacAcacagact taccgagagacctg
 cggatcgcgctcCgctactacaaccagagcggaggccgggtct cacatcAtccagaggatgtatggctgcgacCtggggcc
 CgacgggcccctcctccgcgggcatgaccagtCcgcc tacgacggcaaggat taca tgccttgaacgaggacctgAgct
 cctggaccgcgggcggacacCgcggtcagatcaccagcgaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagat acc tggagaacgggaaggagacgctgCagcgcgcGg (配
 列番号 : 9 5 1)

10

【 0 4 5 5 】

B*5306 gctcccactccatgaggat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t T g c a g t
 gggctacgtggacgacacccagttcgtagggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccata gga
 tagagcaggaggggcccggagtat tggaccggaacacacagatct tcaagaccaacacacagact taccgagagaacctg
 cggatcgcgctccgctactacaaccagagcggaggccgggtct cacatcatccagaggatgtatggctgcgacctggggcc
 cgacgggcccctcctccgcgggcatgaccagtCcgcc tacgacggcaaggat taca tgccttgaacgaggacctgAgct
 cctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcgcccgtgaggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagaCacc tggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号 : 9 5 2)

20

【 0 4 5 6 】

B*5307 gctcccactccatgaggat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtagggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccata gga
 tagagcaggaggggcccggagtat tggaccggaacacacagatct tcaagaccaacacacagact taccgagagaacctg
 cggatcgcgctccgctactacaaccagagcggaggccgggtct cacacca tccagaggatgtatggctgcgacctggggcc
 ggacgggcccctcctccgcggggtataaccagttcgcc tacgacggcaaggat taca tgccttgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagaCacc tggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号 : 9 5 3)

30

【 0 4 5 7 】

B*5308 gctcccactccatgaggat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtagggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccata gga
 tagagcaggaggggcccggagtat tggaccggaacacacagatct tcaagaccaacAcacagact taccgagagaacctg
 cggatcgcgctcCgctactacaaccagagcggaggccgggtct cacatcAtccagaggatgtatggctgcgacCtggggcc
 CgacgggcccctcctccgcgggcatgaccagtCcgcc tacgacggcaaggat taca tgccttgaacgaggacctgAgct
 cctggaccgcgggcggacacCgcggtcagatcaccagcgaagtgggagggcgcccgtgaggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagat acc tggagaacgggaaggagacgctgCagcgcgcGg (配
 列番号 : 9 5 4)

40

【 0 4 5 8 】

B*5309 gctcccactccatgaggat t tctacaccgcca t g t c c c g g c c c g g c c g c g g g g a g c c c c g c t t c a t c g c a g t
 gggctacgtggacgacacccagttcgtagggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccata gga
 tagagcaggaggggcccggagtat tggaccggaacacacagatct ccaagaccaacacacagact taccgagagaacctg
 cgCaccgctcCgctactacaaccagagcggaggccgggtct cacatcatccagaggatgtatggctgcgacctggggcc
 cgacgggcccctcctccgcgggcatgaccagtCcgcc tacgacggcaaggat taca tgccttgaacgaggacctgagct
 cctggaccgcgggcggacacCgcggtcagatcaccagcgaagtgggagggcgcccgtgTggcggagcagcTgagagcc
 tacctggagggccTgtgctgaggaggctccgcagat acc tggagaacgggaaggagacgctgCagcgcgcGg (配
 列番号 : 9 5 4)

50

列番号：955)

【0459】

B*5401 atgCGGGTcAcGGcAcCCcGaaCCcTcCtCctGcTgCtCtGggggggccctggccctgaccgagacctgggCCg
gctcccactccatgaggtatTctacaccgccaTgtcccggcccgccgCGgggagccccgctTcatcgcagTgggtac
gtggacgacacgcagTtCGtGcGgtTCgacagcGacGccGcgagTccgagaggggagccgCGggcgccgtgggtggagca
ggaggggCCggagTatTgggaccGgaacacacagatCtacaaggccagGcacagacTgaccgagagagccTgcggaacc
TgcgCGgtactacaaccagagcGaggccgggtCtCACacTggcagacgatGtatggctgcgaccTggggccggacggg
cgctcctccgCGggcataaccagTtagcctacgacggcaaggatTacaTcgcccTgaacgaggacctgagctcctggac
cgCGgggacaccgCGgtcagatcaccagcGcaagTgggagggCGcccgTgtggCGgagcagctgagagccTaccTgg
agggcacgtgcgTggagTggctccgCagataccTggagaacgggaaggagacgcTgcagcgcgCGgacccccaaagaca
cacgtgaccaccaccccaTctctgaccatgaggccaccctgaggtgcTgggcccTgggtTctaccctgcggagatcac
actgaccTggcagcgggatggcGaggaccaaactcaggacacTgagctTgtggagaccagaccagcaggagatagaacct
TccagaagTgggCagctgtggTggTgctTctggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
aagccccTaccctgagatgggagccaTctTcccagTccaccatccccatcgtgggcatTgtTgctggctggctgtcct
a...gcagTtGtggTcatcggagcTgtggTcgctactgtgTgtgtaggaggaagagCtCaggtgga (配列番号
: 956)

10

【0460】

B*5402 gctcccactccatgaggtatTcCacacctccgTgtcccggcccgccgCGgggagccccgctTcatcgcagT
gggtacgtggacgacacgcagTtCGtGcGgtTCgacagcGacGccGcgagTccgagaggggagccgCGggcgccgtggg
TggagcaggaggggCCggagTatTgggaccGgaacacacagatCtacaaggccagGcacagacTgaccgagagagccTg
cGgaaccTgcgCGgtactacaaccagagcGaggccgggtCtCACacTggcagacgatGtatggctgcgaccTggggcc
ggacgggCGctcctccgCGggcataaccagTtagcctacgacggcaaggatTacaTcgcccTgaacgaggacctgagct
cctggaccgCGgCGgacaccgCGgtcagatcaccagcGcaagTgggagggCGcccgTgtggCGgagcagctgagagcc
TaccTggagggcaCgtgcgTggagTggctccgCagataccTggagaacgggaaggagacgcTgcagcgcgCGg (配
列番号：957)

20

【0461】

B*5501 atgCGGGTcAcGGcAcCCcGaaCCcTcCtCctGcTgCtCtGggggggccctggccctgaccgagacctgggCCg
gctcccactccatgaggtatTctacaccgccaTgtcccggcccgccgCGgggagccccgctTcatcgcagTgggtac
gtggacgacacgcagTtCGtGaggtTCgacagcGacGccGcgagTccgagagaggagccgCGggcgccgtggaTtagagca
ggaggggCCggagTatTgggaccGgaacacacagatCtacaaggccagGcacagacTgaccgagagagccTgcggaacc
TgcgCGgtactacaaccagagcGaggccgggtCtCACacTggcagacgatGtatggctgcgaccTggggccggacggg
cgctcctccgCGggcataaccagTtagcctacgacggcaaggatTacaTcgcccTgaacgaggacctgagctcctggac
cgCGgggacaccgCGgtcagatcaccagcGcaagTgggagggCGcccgTgaggCGgagcagctgagagccTaccTgg
agggcaCgtgcgTggagTggctccgCagataccTggagaacgggaaggagacgcTgcagcgcgCGgacccccaaagaca
cacgtgaccaccaccccaTctctgaccatgaggccaccctgaggtgcTgggcccTgggtTctaccctgcggagatcac
actgaccTggcagcgggatggcGaggaccaaactcaggacacTgagctTgtggagaccagaccagcaggagatagaacct
TccagaagTgggCagctgtggTggTgctTctggagaagagcagagatacacatgccaTgtacagcatgaggggctgccg
aagccccTaccctgagatgggagccaTctTcccagTccaccatccccatcgtgggcatTgtTgctggctggctgtcct
a...gcagTtGtggTcatcggagcTgtggTcgctActgtgTgtgtaggaggaagagCtCaggtgga (配列番号
: 958)

30

40

【0462】

B*5502 atgCGGGTcAcGGcAcCCcGaaCCcTcCtCctGcTgCtCtGggggggccctggccctgaccgagacctgggCCg
gctcccactccatgaggtatTctacaccgccaTgtcccggcccgccgCGgggagccccgctTcatcgcagTgggtac
gtggacgacacgcagTtCGtGaggtTCgacagcGacGccGcgagTccgagagaggagccgCGggcgccgtggaTtagagca
ggaggggCCggagTatTgggaccGgaacacacagatCtacaaggccagGcacagacTgaccgagagagccTgcggaacc
TgcgCGgtactacaaccagagcGaggccgggtCtCACacTggcagacgatGtatggctgcgaccTggggccggacggg
cgctcctccgCGggcataaccagTtagcctacgacggcaaggatTacaTcgcccTgaacgaggacctgagctcctggac
cgCGgggacaccgCGgtcagatcaccagcGcaagTgggagggCGcccgTgTggCGgagcagctgagagccTaccTgg
agggcaCgtgcgTggagTggctccgCagataccTggagaacgggaaggagacgcTgcagcgcgCGgacccccaaagaca
cacgtgaccaccaccccaTctctgaccatgaggccaccctgaggtgcTgggcccTgggtTctaccctgcggagatcac

50

actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagcttgtgtgtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgttgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctActgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 9 5 9)

【 0 4 6 3 】

B*5503 gctcccactccatgaggtatttctacaccgccatgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagTgagcctg
 cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacttggcagacgatgtatggctgcgacctggggcc
 ggacggcgccctctccgcgggcataaaccagttAgcctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcgccccgtgaggcggagcagctgagagcc
 tacctggagggcaCgtgctggtgagtggtccgcagataacctggagaacgggaaggagacgctgCagcgcgcgGg (配
 列番号 : 9 6 0)

10

【 0 4 6 4 】

B*5504 gctcccactccatgaggtatttctacaccgccAtgtcccggcccggccgcggggagccccgcttcatcGcagt
 gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagaccctg
 cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcagtacggctgcgacgtggggcc
 ggacggcgccctctccgcgggcataAaccagttAgcctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgcgcgacacCgcggtcagatcaccagcgcaagtgggagggcgccccgtgTggcggagcagctGagagcc
 tacctggagggcaCgtgctggtgagtggtccgcagataacctggagaacgggaaggagacgctgCagcgcgcgGg (配
 列番号 : 9 6 1)

20

【 0 4 6 5 】

B*5505 atgcggttcacggcaccgccaaacctcctcctgctgctctggggggccctggccccgaccgagacctggcgcc
 gctcccactccatgaggtatttctacaccgccatgtcccggcccggccgcggggagccccgcttcatcgcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtgga tagagca
 ggaggggcccGgtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagccctcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacttggcagacgatgtatggctgcgacctggggccggacggg
 cgccctctccgcgggcataaaccagttagcctacgacggcaaggattacatcgccccgaacgaggacctgagctcctggac
 cgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcgccccgtgaggcggagcagctgagagccacctgg
 agggcacgtgctggtgagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgcgacccccaaagaca
 cacgtgaccaccacccatctctgaccatgaggccacctgaggtgctggggccctgggttctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tcagaagtgggcagcttgtgtgtgcttctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgttgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagctcagggtgga (配列番号
 : 9 6 2)

30

【 0 4 6 6 】

B*5507 gctcccactccatgaggtatttctacaccgccAtgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacacgcagttcgtgaggttcgacagcgacgcccgagtcgagagGggagccgcgggcgccgtgga
 tagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagaccctg
 cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacttggcagacgatgtatggctgcgacctggggcc
 ggacggcgccctctccgcgggcataaaccagttAgcctacgacggcaaggattacatcgccccgaacgaggacctgagct
 cctggaccgcgcgacaccgcggtcagatcaccagcgcaagtgggagggcgccccgtgaggcggagcagctgagagcc
 tacctggagggcacgtgctggtgagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgcgGg (配
 列番号 : 9 6 3)

40

【 0 4 6 7 】

B*5508 gctcccactccatgaggtatttctacaccgccatgtcccggcccggccgcggggagccccgcttcatcGcagt
 gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtgga

50

tagagcaggaggggcccggagtat tgggaccggaacacacagat c tacaaggcccaggcacagact gaccgagagagcct g
 cggaaacct ggcgcggt actacaaccagagcggaggccgggt c t cacacct ccagagGat g tacggct ggcacgt gggggc
 ggacggggcct cct ccgcgggcAtAaccagt acgct acgacggcaaggat taca t cggcc tgaacgaggacct ggcgt
 cctggaccgcccggacacCgcggct cagat caccagcgcaagt gggaggcggcccgt gTggcggagcagcTgagagcc
 tacctggagggcTgtgctggagtggct ccgcagat acc tggagaacgggaaggagacgct gcagcgcgcGg (配
 列番号 : 9 6 4)

【 0 4 6 8 】

B*5509 gctcccactccatgaggtat t tctacaccgccAtgtcccggcccggccgcccgggagccccgct tcatcGcagt
 gggctacgtggacgacacGcagttcgtagggt tgcacagcgacgcccgagtcgagagaggagccgcccggcgccgtgga
 tagagcaggaggggcccggagtat tgggaccggaacacacagat c tacaaggcccaggcacagact gaccgagagagcct g
 cggaaacct ggcgcggt actacaaccagagcggaggccgggt c t cacact tggcagaCgat g taTggctgacacCtggggcc
 ggacggggcct cct ccgcgggcAtaaccagttAgcctacgacggcaaggat taca t cggcc tgaacgaggacct ggcgt
 cctggaccgcccggacacCgcggct cagat caccagcgcaagt gggaggcggcccgt gaggcggagcagcggagagcc
 tacctggagggcagtgctggagtggct ccgcagat acc tggagaacgggaaggagacgct gcagcgcgcGg (配
 列番号 : 9 6 5)

10

【 0 4 6 9 】

B*5510 gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccgcccgggagccccgct tcatc t cagt
 gggctacgtggacgacacgcagttcgtagggt tgcacagcgacgcccgagtcgagagaggagccgcccggcgccgtgga
 tagagcaggaggggcccggagtat tgggaccggaacacacagat c tacaaggcccaggcacagact gaccgagagagcct g
 cggaaacct ggcgcggt actacaaccagagcggaggccgggt c t cacact tggcagaCgat g taTggctgacacCtggggcc
 ggacggggcct cct ccgcgggcAtaaccagttAgcctacgacggcaaggat taca t cggcc tgaacgaggacct ggcgt
 cctggaccgcccggacaccgcccgt cagat caccagcgcaagt gggaggcggcccgt gTggcggagcagcTgagagcc
 tacctggagggcagtgctggagtggct ccgcagat acc tggagaacgggaaggagacgct gcagcgcgcGg (配
 列番号 : 9 6 6)

20

【 0 4 7 0 】

B*5511 gctcccactccatgaggtat t tctacaccgcca tgtcccggcccggccgcccgggagccccgct tcatcgcagt
 gggctacgtggacgacacgcagttcgtagggt tgcacagcgacgcccgagtcgagagaggagccgcccggcgccgtgga
 tagagcaggaggggcccggagtat tgggaccggaacacacagat c tacaaggcccaggcacagact gaccgagagagcct g
 cggaaacct ggcgcggt actacaaccagagcggaggccgggt c t cacact tggcagaTgat g taTggctgacacCtggggcc
 ggacggggcct cct ccgcgggcAtaaccagttAgcctacgacggcaaggat taca t cggcc tgaacgaggacct ggcgt
 cctggaccgcccggacaccgcccgt cagat caccagcgcaagt gggaggcggcccgt gaggcggagcagcTgagagcc
 tacctggagggcagtgctggagtggct ccgcagat acc tggagaacgggaaggagacgct gcagcgcgcGg (配
 列番号 : 9 6 7)

30

【 0 4 7 1 】

B*5512 atgcccgtcacggcaccgcaaccctcctcctgctgctctggggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggtat t tctacaccgcca tgtcccggcccggccgcccgggagccccgct tcatcgcagtgggctac
 gtggacgacacgcagttcgtagggt tgcacagcgacgcccgagtcgagagaggagccgcccggcgccgtgga tagagca
 ggaggggcccggagtat tgggaccggaacacacagat c tacaaggcccaggcacagact gaccgagagaAcc tgcggaacc
 tgcgcggt actacaaccagagcggaggccgggt c t cacact tggcagacgat g taTggctgacacCtggggccggacggg
 cgccctcctccgcgggcAtaaccagttAgcctacgacggcaaggat taca t cggcc tgaacgaggacct ggcgtcc tggac
 cgggcggacaccgcccgt cagat caccagcgcaagt gggaggcggcccgt gTggcggagcagcTgagagcc tacctgg
 agggcagtgctggagtggct ccgcagat acc tggagaacgggaaggagacgct gcagcgcgcggacccccaaagaca
 cacgtgaccaccaccctc tctgacctgaggccacctgaggctgctggggcc tgggct tctacctgcccagatcac
 actgacctggcagcgggatggcagggaccaaactcaggacac t ggcgtgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtgggtggctctc tggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc taccctgagatgggagccatctcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctActgtgagtgtgtaggaggaagagCtcaggtgga (配列番号
 : 9 6 8)

40

【 0 4 7 2 】

B*5601 atgcccgtcacggcaccgcaaccctcctcctgctgctctggggggccctggccctgaccgagacctgggccc

50

gctcccactccatgaggatattctacaccgccatgtcccggcccggccgccccgcttcatcgcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagcccgccccgctgga tagagca
 ggagggcccgagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctggcagacgatgtaTggctgcgacctggggccggacggg
 cgctcctccgccccataaccagttAgcctacgacggcaaggat tacaatcgccc tgaacgaggacctgagctcctggac
 cgcgccggacaccgccccagatcaccagcgcaagtgggagggcccgctgTggcgggagcagcTgagagcctacctgg
 agggccTgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgccgacccccaaagaca
 cacgtgaccaccaccccatctctgacctgaggccacctgaggtgctgggccc tgggctctacctgcgggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc tcccc t gagatgggagccatct tcccagtcacccatccccatcg tgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctActgtgtagtgtaggaggaagagCtcaggtgga (配列番号
 : 9 6 9)

10

【 0 4 7 3 】

B*5602 atgccccacggcaccgcaaccctcctcctgctgctctggggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgccatgtcccggcccggccgccccgcttcatcgcagtgggctac
 gtggacgacacgcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagcccgccccgctgga tagagca
 ggagggcccgagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacctggggccggacggg
 cgctcctccgccccataaccagttAgcctacgacggcaaggat tacaatcgccc tgaacgaggacctgagctcctggac
 cgcgccggacaccgccccagatcaccagcgcaagtgggagggcccgctgTggcgggagcagcTgagagcctacctgg
 agggccTgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgccgacccccaaagaca
 cacgtgaccaccaccccatctctgacctgaggccacctgaggtgctgggccc tgggctctacctgcgggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc tcccc t gagatgggagccatct tcccagtcacccatccccatcg tgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctActgtgtagtgtaggaggaagagCtcaggtgga (配列番号
 : 9 7 0)

20

【 0 4 7 4 】

B*5603 atgccccacggcaccgcaaccCtctcctgctgctctGggggggccctggccctgaccgagacctgggccc
 gctcccactccatgaggatattctacaccgccatgtcccggcccggccgccccgcttcatcGcagtgggctac
 gtggacgacacccagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagcccgccccgctgga tagagca
 ggagggcccgagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacctggggccggacggg
 cgctcctccgccccatgaccagtccgctacgacggcaaggat tacaatcgccc tgaacgaggacctgagctcctggac
 cgcgccggacaccgccccagatcaccagcgcaagtgggagggcccgctgaggcgggagcagTggagagcctacctgg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgccgacccccaaagaca
 catgtgaccaccaccccatctctgacctgaggccacctgaggtgctgggccc tgggctctacctgcgggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtgggtgctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagcccc tcccc t gagatgggagccatct tcccagtcacccatccccatcg tgggcatgtgtgctggcctggctgtcct
 a...gcagttgtggtcatcggagctgtggtcgctactgtgtagtgtaggaggaagagCtcaggtgga (配列番号
 : 9 7 1)

30

40

【 0 4 7 5 】

B*5604 gctcccactccatgaggatattctacaccgccatgtcccggcccggccgccccgcttcatcGcagt
 gggctacgtggacgacacGcagttcgtgaggttcgacagcgacgccgcgagtcgagagaggagcccgccccgctgga
 tagagcaggagggccggagtat tgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgcgacctggggcc
 ggacggcgccctcctccgccccataaccagttAgcctacgacggcaaggat tacaatcgccc tgaacgaggacctgagct
 cctggaccgccccgacaccgccccagatcaccagcgcaagtgggagggcccgctgTggcgggagcagcTgagagcc

50

tacctggagggccTgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配
列番号：972)

【0476】

B*5605 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgctgggagccccgcttcatTgcagt
gggtacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgctgggagccccgctgga
tagagcaggaggggcccggagtttggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
cgaacctgcgcggctactacaaccagagcgaggccgggtctcacacttggcagaCgagttaTggctgacgctggggcc
ggacgggcccctcctccgctgggataaaccagttacgctacgacggcaaAgattacatcgcccgaacgaggacctgAgct
cctggaccgctggcggacaccgctcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagagcc
tacctggagggccTgtgctggagtggtccgcagacaccggagaacgggaaggagacgctgcagcgcgcgg (配

10

列番号：973)

【0477】

B*5606 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgctgggagccccgcttcatTgcagt
gggtacgtggacgacacccagttcgtgaggttcgacagcgacgcccgagttccgaggaCggagccccgggcccAtgga
tagagcaggaggggcccggagtttggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
cgaacctgcgcggctactacaaccagagcgaggccgggtctcacacttggcagaCgagttaTggctgacgctggggcc
ggacgggcccctcctccgctgggataaaccagttacgctacgacggcaaAgattacatcgcccgaacgaggacctgAgct
cctggaccgctggcggacaccgctcagatcaccagcgcaagtgggagggcccgctgaggcggagcagcTgagagcc
tacctggagggccTgtgctggagtggtccgcagacaccggagaacgggaaggagacgctgcagcgcgcgg (配

20

列番号：974)

【0478】

B*5607 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgctgggagccccgcttcatcgagc
gggtacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgctgggagccccgctgga
tagagcaggaggggcccggagtttggaccggaacacacagatctacaaggcccaggcacagactgaccgagagaacctg
cgcaCgcgctcCgctactacaaccagagcgaggccgggtctcacacttggcagaCgagttaTggctgacgctggggcc
ggacgggcccctcctccgctgggataaaccagttAgctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgctggcggacaccgctcagatcaccagcgcaagtgggagggcccgctgTggcggagcagcTgagagcc
tacctggagggccTgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配

30

列番号：975)

【0479】

B*5608 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgctgggagccccgcttcatcgagc
gggtacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgctgggagccccgctgga
tagagcaggaggggcccggagtttggaccggaacacacagatctacaaggGccaggcacagactgaccgagagagcctg
cgaacctgcgcggctactacaaccagagcgaggccgggtctcacacttggcagacgagttaTggctgacgctggggcc
ggacgggcccctcctccgctgggataaaccagttAgctacgacggcaaggattacatcgcccgaacgaggacctgagct
cctggaccgctggcggacaccgctcagatcaccagcgcaagtgggagggcccgctgTggcggagcagcTgagagcc
tacctggagggccTgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配

40

列番号：976)

【0480】

B*5609 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgctgggagccccgcttcatcGcagt
gggtacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgctgggagccccgctgga
tagagcaggaggggcccggagtttggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
cgaacctgcgcggctactacaaccagagcgaggccgggtctcacatcAtccagaggaagttaTggctgacgctggggcc
CgacgggcccctcctccgctgggataaaccagttAgctacgacggcaaggattacatcgcccgaacgaggacctgAgct
cctggaccgctggcggacacCgctcagatcaccagcgcaagtgggagggcccgctgTggcggagcagcTgagagcc
tacctggagggccTgtgctggagtggtccgcagataacctggagaacgggaaggagacgctgcagcgcgcGg (配

50

列番号：977)

【0481】

B*5610 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgctgggagccccgcttcatcGcagt
gggtacgtggacgacacGcagttcgtgaggttcgacagcgacgcccgagttccgagagaggagccgctgggagccccgctgga

t agagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
 cggaaacctgcgcggtactacaaccagagcagggccgggtctcacacctccagaggatgtacggctgcgacCtggggcc
 ggacgggcccctcctccgcgggcataaaccagttAgcctacgacggcaaggattacatcgcccgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcaccagcgcaagtgggaggcggcccgtgTggcggagcagctgagagcc
 tacctggagggcaCgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号：978)

【0482】

B*5611 atgcggtcacggcaccggaaccCtctctctgctgctctggggggcccTggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtaggttcgacagcgacgcccgagtcgagagaggagccgcgggcgccgtggaTagagca
 ggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
 tgcgcggtactacaaccagagcagggccgggtctcacaTcatccagaggatgtagtggctgcgacctggggccCgacggg
 cgctcctccgcgggcatgaccagtTcgctacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac
 cgcggggacacCgcggtcagatcaccagcgcaagtgggaggcggcccgtgTggcggagcagctgagagccTacctgg
 agggcTgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgggacccccaaagaca
 cacgtgaccaccaccctctctgacctgaggccacctgaggtgctggggcccTggCtctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tcagaagtgggacgctgtggtggTgctctggagaagagcagagatacacatgccaTgtacagcatgagggcTgccc
 aagccccTaccctgagatggg (配列番号：979)

【0483】

B*570101 atgcggtcacggcaccggaaccgtcctctctgctgctctggggggcagTggccctgaccgagacctgggc
 cggctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgcagtgggct
 acgtggacgacaccagttcgtaggttcgacagcgacgcccgagtcgagaggatggcgccccggggcgccatggaTagag
 caggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgacactTaccgagagaacctgcggaT
 cgctccgctactacaaccagagcagggccgggtctcacaTcatccaggTgtagttagctgcgacgtggggccggacg
 ggcgctcctccgcgggcatgaccagtCcgctacgacggcaaggattacatcgcccgaacgaggacctgagctcctgg
 accgcgggcggacacggcggctcagatcaccagcgcaagtgggaggcggcccgtTggcggagcagctgagagccTacct
 ggagggcctgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgggacccccaaaga
 cacatgtgaccaccaccctctctgacctgaggccacctgaggtgctggggcccTggctctacctgcgagatc
 acactgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagatagaac
 ctccagaagtgggacgctgtggtggTgctctggagaagagcagagatacacatgccaTgtacagcatgagggcTgc
 caaagccccTaccctgagatgggagccatctcccaTccaccgtccccatcgTgggcatgtgtgctggcctggctgtc
 cta...gcagttgtggtcatcgagctgtggtcgctgctgtgtagttaggaggaagagctcaggtgga (配列番
 号：980)

【0484】

B*570102 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgca
 gtgggtacgtggacgacaccagttcgtaggttcgacagcgacgcccgagtcgagaggatggcgccccggggcgccatg
 gatagagcaggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgacactTaccgagagaacc
 TgcggaTcgctccgctactacaaccagagcagggccgggtctcacaTcatccaggTgtagttagctgcgacgtgggg
 ccggacggcgctcctccgcgggcatgaccagtTgctacgacggcaaggattacatcgcccgaacgaggacctgag
 ctctggaccgcgggcggacacggcggctcagatcaccagcgcaagtgggaggcggcccgtTggcggagcagctgagag
 cctacctggagggcctgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcgg (配
 列番号：981)

【0485】

B*5702 atgcggtcacggcaccggaaccgtcctctctgctgctctggggggcagTggccctgaccgagacctgggccc
 gctcccactccatgaggtatttctacaccgccaTgtcccggcccggccgcggggagccccgcttcatcgcagtgggctac
 gtggacgacaccagttcgtaggttcgacagcgacgcccgagtcgagaggatggcgccccggggcgccatggaTagagca
 ggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgacactTaccgagagaacctgcggaTcg
 cgctccgctactacaaccagagcagggccgggtctcacaTcatccaggTgtagttagctgcgacgtggggccggacggg
 cgctcctccgcgggcatAaccagtacgctacgacggcaaggattacatcgcccgaacgaggacctgagctcctggac

10
20
30
40
50

cgcgggcgacacggcggtcagatcaccagcgcaagtgggagggcgccgtgtggcggagcagcggagagcctacctgg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcggacccccaaagaca
 catgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgcgagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgcttctggagaagagcagagatacacatgccatgtacagcatgagggcctgcca
 aagccccctaccctgagatgggagccatcttcccaAtccaccgtccccatcgtgggcatgtgtgctggcctggctgtct
 a...gcagtgtggtcatcggagctgtggtcgctgctgtgtagtgtaggaggaagagctcaggtgga (配列番号
 : 9 8 2)

【 0 4 8 6 】

B*570301 atgcggggtcacggcaccgcaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggc
 cggctcccactccatgaggtatcttacaccgccaatgtcccggcccggccggggagccccgcttcatcgcagtgggct
 acgtggacgacaccagctcgtgaggttcgacagcgcgcccgcagctccgaggaaggcggccggcgccatgga tagag
 caggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctgcgga
 cgcgctccgctactacaaccagagcagggccgggtctcacatcatccaggtgatgtatggctgcgacgtggggccggacg
 ggcgctcctccgcgggcatAaccagtacgctacgacggcaaggat tacatcgccccgaacgaggacctgagctcctgg
 accgcgccggacacggcggtcagatcaccagcgcaagtgggagggcgccgtgtggcggagcagcTgagagcctacct
 ggagggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcggacccccaaaga
 cacatgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgcgagatc
 acactgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaac
 ctccagaagtgggcagctgtggtggtgcttctggagaagagcagagatacacatgccatgtacagcatgagggcctgc
 caaagccccctaccctgagatgggagccatcttcccaAtccaccgtccccatcgtgggcatgtgtgctggcctggctgtc
 cta...gcagtgtggtcatcggagctgtggtcgctgctgtgtagtgtaggaggaagagctcaggtgga (配列番
 号 : 9 8 3)

【 0 4 8 7 】

B*570302 gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccggggagccccgcttcatcgcag
 gtgggtacgtggacgacaccagctcgtgaggttcgacagcgcgcccgcagctccgaggaaggcggccggcgccatg
 gatagagcaggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacc
 tgcgga tgcgctccgctactacaaccagagcagggccgggtctcacatcatccaggtgatgtatggctgcgacgtgggg
 ccggacggcgccctcctccgcgggcataaaccagtacgctacgacggcaaggat tacatcgccccgaacgaggacctgag
 ctctggaccgcgccggacacAgcggctcagatcaccagcgcaagtgggagggcgcccggtgtggcggagcagctgagag
 cctacctggagggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcggaccccc
 ccaaagacacatgtgaccaccacccatctctgaccatgaggccacctgaggtgctgggcccgggcttctacctgc
 ggagatcacactgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggag
 atagaaccttccagaagtgggcagctgtggtggtgcttctggagaagagcagagatacacatgccatgtgcagcatgag
 gggctgccaagccccctaccctgagatggg (配列番号 : 9 8 4)

【 0 4 8 8 】

B*5704 gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccggggagccccgcttcatcgcag
 gggctacgtggacgacaccagctcgtgaggttcgacagcgcgcccgcagctccgaggaaggcggccggcgccatgga
 tagagcaggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctg
 cgga tgcgctccgctactacaaccagagcagggccgggtctcacatcatccaggtgatgtatggctgcgacgtggggcc
 ggacggcgccctcctccgcggtatgaccagGacgctacgacggcaaggat tacatcgccccgaacgaggacctgagct
 cctggaccgcgccggacacggcggtcagatcaccagcgcaagtgggagggcgcccggtgtggcggagcagcggagagcc
 tactggagggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcGg (配
 列番号 : 9 8 5)

【 0 4 8 9 】

B*5705 gctcccactccatgaggtatcttacaccgccaatgtcccggcccggccggggagccccgcttcatcgcag
 gggctacgtggacgacaccagctcgtgaggttcgacagcgcgcccgcagctccgaggaaggcggccggcgccatgga
 tagagcaggaggggcccggagtattgggacGgggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctg
 cgga tgcgctccgctactacaaccagagcagggccgggtctcacatcatccagagga tgtatggctgcgacctggggcc
 cgacggcgccctcctccgcggtatAaccagtacgctacgacggcaaggat tacatcgccccgaacgaggacctgagct

10

20

30

40

50

cctggaccgcgggacacggcggctcagatcaccagcgcaagtgggagggcccgTggcggagcagcggagagcc
tacctggagggccTgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcg (配
列番号: 9 8 6)

【 0 4 9 0 】

B*5706 atgcggtcacggcaccggaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
gctcccactccatgaggtatctacaccgccaTgtcccggcccggcggggagccccgcttcatcgcagtgggctac
gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcggcccggcgccatggaTagagca
ggagggcccgagtatgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctgcggaTcg
cgctccgctactacaaccagagcagggccgggtctcacatcatccaggTgagtgtatggctgcgacgtggggccggacggg
cgctcctccgcgggcatgaccagtcgctacgacggcaaggatTacatcgccctgaacgaggacctgagctcctggac
cgcgggcggacacggcggctcagatcaTccagcgcaagtgggagggcccgTgtggcggagcagctgagagcctaccTgg
agggcTgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgaggccccaaagaca
catgtgaccaccaccatctctgaccatgaggccacctgaggtgctgggcccTgggcttctaccctgcgggagTcac
actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctTgtggagaccagaccagcaggagatagaacct
tcagaagtgggcagctgtggTggTgctctgggagaagagcagagatacacatgccaTgtacagcatgaggggctgcca
aagccccTaccctgagatgggagccatcttcccaatccaccgtccccatcgTgggcatTgtTgctggcctggctgctct
a...gcagTgtggTcatcgagcTgtggTcgctgctgtgaTgttaggaggaagagctcaggtgga (配列番号
: 9 8 7)

【 0 4 9 1 】

B*5707 gctcccactccatgaggtatctacaccgccaTgtcccggcccggcggggagccccgcttcatcgcagT
gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcggcccggcgccatgga
Tagagcaggagggccggagtatgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctg
cggaTcgcgctccgctactacaaccagagcagggccgggtctcacatcatccagTgagtgtatggctgcgacgtggggcc
ggacgggcgctcctccgcgggcataaccagTcgcctacgacggcaaggatTacatcgccctgaacgaggacctgagct
cctggaccgcgggcggacacggcggctcagatcaccagcgcaagtgggagggcccgTgtggcggagcagctgagagcc
tacctggagggcctgtgctggagtCgctccgcagataccTggagaacgggaaggagacgctgcagcgcgGg (配
列番号: 9 8 8)

【 0 4 9 2 】

B*5708 gctcccactccatgaggtatctacaccgccaTgtcccggcccggcggggagccccgcttcatcgcagT
gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcggcccggcgccatgga
Tagagcaggagggccggagtatgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctg
cggaTcgcgctccCctactacaaccagagcagggccgggtctcacatcatccagTgagtgtatggctgcgacgtggggcc
ggacgggcgctcctccgcgggcataaccagTcgcctacgacggcaaggatTacatcgccctgaacgaggacctgagct
cctggaccgcgggcggacacggcggctcagatcaccagcgcaagtgggagggcccgTgtggcggagcagctgagagcc
tacctggagggcctgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgGg (配
列番号: 9 8 9)

【 0 4 9 3 】

B*5709 gctcccactccatgaggtatctacaccgccaTgtcccggcccggcggggagccccgcttcatcgcagT
gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcggcccggcgccatgga
Tagagcaggagggccggagtatgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctg
cggaTcgcgctccCctactacaaccagagcagggccgggtctcacatcatccagTgagtgtatggctgcgacgtggggcc
ggacgggcgctcctccgcgggcataaccagTcgcctacgacggcaaggatTacatcgccctgaacgaggacctgagct
cctggaccgcgggcggacacggcggctcagatcaccagcgcaagtgggagggcccgTgagggcggagcaggaCagagcc
tacctggagggcctgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgGg (配
列番号: 9 9 0)

【 0 4 9 4 】

B*5801 atgcggtcacggcggcccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
gctcccactccatgaggtatctacaccgccaTgtcccggcccggcggggagccccgcttcatcgcagtgggctac
gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggaTggcggcccggcgccatggaTagagca
ggagggcccgagtatgggacGgggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctgcggaTcg

10

20

30

40

50

cgctccgctactacaaccagagcgaggccgggtctcacatcAtccagaggatgtaggtgcgacctggggcccgcaggg
 cgctccctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgggcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcagctgagagcctaccagg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccaccctctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctActgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 991)

10

【0495】

B*5802 atgcggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtattctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgcagtgggtac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccagtggaatagagca
 ggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctgcggaatcg
 cgctccgctactacaaccagagcgaggccgggtctcacacctccagTggatgtaggtgcgacctggggcccgcaggg
 cgctccctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgggcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcagctgagagcctaccagg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgaggacccccaaagaca
 cacgtgaccaccaccctctctgaccatgaggccacctgaggctgtgggcccgggctctacctgaggagatcac
 actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
 tccagaagtgggcagctgtggtggtgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
 aagccccaccctgagatgggagccatcttcccagtcacccatccccatcgtgggcatgtgtgctggcctggctgtcct
 a...gcagtgtggtcatcggagctgtggtcgctactgtgtagttaggaggaagagCtcagggtgga (配列番号
 : 992)

20

【0496】

B*5804 atgcggtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
 gctcccactccatgaggtattctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgcagtgggtac
 gtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccagtggaatagagca
 ggaggggcccggagtattgggacgAggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctgcggaatcg
 cgctccgctactacaaccagagcgaggccgggtctcacatcAtccagaggatgtaggtgcgacctggggcccgcaggg
 cgctccctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
 cgcgggcgacaccgcggtcagatcaccagcgcaagtgggagggcccggtgtggcggagcagctgagagcctaccagg
 agggcctgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgagg (配列番号 :
 993)

30

【0497】

B*5805 gctcccactccatgaggtattctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccagtgga
 tagagcaggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctg
 cggaatcgctccgctactacaaccagagcgaggccgggtctcacatcAtccagaggatgtaggtgcgacctggggcc
 cgacgggcccctcctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagct
 cctggaccgcgggcggacaccgcggtcagatcaccagcgcaagtgggagggcccggtgCggcggagcagctgagagcc
 taccaggagggcagctgctgaggtggctccgcagatacctggagaacgggaaggagacgctgcagcgcgagg (配
 列番号 : 994)

40

【0498】

B*5806 gctcccactccatgaggtattctacaccgccaatgtcccggcccggccgcggggagccccgcttcatcgcagt
 gggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgcgagtcgaggacggagccccgggcccagtgga
 tagagcaggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcgcagacttaccgagagaacctg
 cggaatcgctccgctactacaaccagagcgaggccgggtctcacacctccagTggatgtaggtgcgacctggggcc
 cgacgggcccctcctccgcgggcatgaccagtccgctacgacggcaaggattacatcgccctgaacgaggacctgagct

50

cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgtagggcggagcagctgagagcc
tacctggagggccTgtgctggagtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcgg (配
列番号: 995)

【0499】

B*5807 gctcccactccatgaggtatttctacaccgccaTgtcccgccccggccgcggggagccccgcttcatcgcagt
gggtacgtggacgacaccagttcgtagggtcgacagcgacgccgagtcgagagagggagccccggcgccaTgga
tagagcaggaggggcccggagtattgggacggggagacacggaacatgaaggcctccgcccagacttaccgagagaacctg
cggatcgcgctccgctactacaaccagagcgaggccgggtctcacacctccagTggaTgtaggctgcgacctggggcc
cgacgggcccctcctccgcgggcatgaccagtcggcctacgacggcaaggattacatcgcccTgaacgaggacctgagct
cctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTgtggcggagcagctgagagcc
tacctggagggcctgtgctggagtCgctccgcagataccTggagaacgggaaggagacgctgcagcgcgcgg (配
列番号: 996)

【0500】

B*5901 atgcgggTcacggcaccgcaacctcctcctgctgctctggggggccctggccctgaccgagacctgggccc
gctcccactccatgaggtatttctacaccgccaTgtcccgccccggccgcggggagccccgcttcatcgcagtgggctac
gtggacgacacgcagttcgtagggtcgacagcgacgccgagtcgagagaggagccgccccgcccTggaTagagca
ggaggggcccggagtattgggaccggaacacacagatctcaagaccaacacacagacttaccgagagaacctgcggatcg
cgctcCgctactacaaccagagcgaggccgggtctcacactTggcagacgatgtaggctgcgacctggggccggacggg
cgccctcctccgcgggcataaccagttAgcctacgacggcaaggattacatcgcccTgaacgaggacctgagctcctggac
cgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTgTggcggagcagctgagagcctacctgg
agggaCgtgctgtaggtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcggacccccaaagaca
cacgtgaccaccaccacctctctgacctgaggccacctgaggTgctgggcccTgggcttctacctgcgggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacactgagctTgtggagaccagaccagcaggagatagaacct
tccagaagtgggcagctgtggTggTgctctctggagaagagcagagatacacatgccaTgtacagcatgaggggctgccc
aagccccTcacctgagatgggagccatcttcccagTccacctccccatcgTgggcatTgtTgctggcctggctgtcct
a...gcagTgtggtcatcggagctgtggtcgctActgtgatgtgtaggaggaagagCtcaggtgga (配列番号
: 997)

【0501】

B*670101 atgctggTcatggcgccccgaacctcctcctgctgctctcgggggccctggccctgaccgagacctgggc
cggctcccactccatgaggtatttctacacctccgTgtcccgccccggccgcggggagccccgcttcatctcagTgggct
acgtggacgacacgcagttcgtagggtcgacagcgacgccgagtcgagagaggagccgccccgcccTggaTagag
caggaggggcccggaAtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaa
cctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtggggccggacg
ggcgccctcctccgcgggcataaccagttcgctacgacggcaaggattacatcgcccTgaacgaggacctgagctcctgg
accgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTgtggcggagcagcTgagaAccTacct
ggagggcacgtgctgtaggtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcggacccccaaaga
cacatgtgaccaccaccacctctctgacctgaggccacctgaggTgctgggcccTgggcttctacctgcgggagatc
acactgacctggcagcgggatggcgaggaccaaactcaggacaccgagctTgtggagaccagaccagcaggagaCagaac
cttccagaagtgggcagctgtggTggTgctctctggagaagagcagagatacacatgccaTgtacagcatgaggggctgc
cgaagccccTcacctgagatgggagccAtcttcccagTccacctccccatcgTgggcatTgtTgctggcctggctgtc
cta...gcagTgtggtcatcggagctgtggtcgctgctgtgatgtgtaggaggaagagTtcaggtgga (配列番
号: 998)

【0502】

B*670102 gctcccactccatgaggtatttctacacctccgTgtcccgccccggccgcggggagccccgcttcatctca
gtgggctacgtggacgacacgcagttcgtagggtcgacagcgacgccgagtcgagagaggagccgccccgcccTg
gatagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcc
TgcggaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagagGatgtacggctgcgacgtgggg
ccggacgggcccctcctccgcgggcatAaccagTcgctacgacggcaaggattacatcgcccTgaacgaggacctgag
ctcctggaccgcgccggacaccgcggtcagatcaccagcgcaagtgggagggcgcccgTgTggcggagcagcTgagaA
cctaccTggagggcaCgtgctgtaggtggctccgcagataccTggagaacgggaaggagacgctgcagcgcgcgg (配列番

10

20

30

40

50

号 : 9 9 9)

【 0 5 0 3 】

B*6702 atgctgggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
gctcccactccatgaggatattctacacctccgtgtcccggcccgccgcccggggagccccgcttcatctcagtgggctac
gtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcAagaggggagccgcccggcgccgtgggtggagca
ggaggggcccggagtattgggaccgggagacacagaagtacaagcgccaggcacaggctgaccgagtgagcctgcggaacc
tgcgcccgtactacaaccagagcgaggccgggtctcacacctccagaggatgtacggctgagcagtggggcccggacggg
cgctcctccgcccgcataaccagttcgctacgacggcaaggattacatcgcccTgaacgaggacctgagctcctggac
cgccgggacaccgcccgtcagatcaccagcgcaagtgggagggcccgctgtggcggagcagctgagaacctacctgg
agggcacgtgctggagtggtccgcagatacctggagaacgggaaggagacgctgcagcgcgcccggacccccaaagaca
catgtgaccaccaccatctctgacctgaggccacctgaggtgctgggcccTgggtctctacctgcccgagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagaccagcaggagacagaacct
tcagaagtgggcagctgtggtggTgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgcc
aagccccTcaccctgagatgggagccatctctccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagttgtgggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagctcaggtgga (配列番号
: 1 0 0 0)

10

【 0 5 0 4 】

B*7301 atgctgggtcatggcgccccgaaccgtcctcctgctgctctcgggggccctggccctgaccgagacctgggccc
gctcccactccatgaggatattccacacctccgtgtcccggccTggccgcccggggagccccgcttcatcaccgtgggctac
gtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcagagagaggagccgcccggcgccgtggaTagagca
ggaggggcccggagtattgggaccggaacacacagatctgcaaggccaaggcacagactgaccgagtgggcctgcggaacc
tgcgcccgtactacaaccagagcgaggccgggtctcacactTggcagacgatgtaTggctgagcagatggggcccggacggg
cgctcctccgcccgtataaccagttcgctacgacggcaaggattacatcgcccTgaacgaggacctgagctcctggac
cgccgcccggacaccgcccgtcagatcaccagcgcaagtgggagggcccgctgtggcggagcagctgagagacctacctgg
agggcgagtgctggagtggtccgcagacacctggagaacgggaaggagacgctgcagcgcgcccggacccccaaagaca
cacgtgaccaccaccatctctgacctgaggccacctgaggtgctgggcccTgggtctctacctgcccgagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacaccgagctgtggagaccagccagcaggagatggaacct
tcagaagtgggcagctgtggtggTgctctctggacaagaacagagatacacgtgccatgtgcagcagcaggggctgcag
gagcccTgacccctgagatggaagccatctctccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
tgtggtcaccgtagctgtggtCgctgtggtcgctgctgtgtagttaggaggaagagctcaggtgga (配列番号
: 1 0 0 1)

20

30

【 0 5 0 5 】

B*7801 atgcccgtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
gctcccactccatgaggatattctacaccgccaTgtcccggcccgccgcccggggagccccgcttcatTgcagtgggctac
gtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcagaggacggagccccggcgccatggaTagagca
ggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagactgaccgagagagcctgcggaacc
tgcgcccgtactacaaccagagcgaggccgggtctcacactTggcagaCgatgtaTggctgagcagtggggcccggacggg
cgctcctccgcccgcataaccagtacgctacgacggcaaggattacatcgcccTgaacgaggacctgagctcctggac
cgccgggacaccgcccgtcagatcaccagcgcaagtgggagggcccgctgaggcggagcagctgagagacctacctgg
agggcctgtgctggagtggtccgcagaCacctggagaacgggaaggagacgctgcagcgcgcccggacccccaaagaca
cacgtgaccaccaccatctctgacctgaggccacctgaggtgctgggcccTgggtctctacctgcccgagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacactgagctgtggagaccagaccagcaggagatagaacct
tcagaagtgggcagctgtggtggTgctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgcc
aagccccTcaccctgagatgggagccatctctccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagttgtgggtcatcggagctgtggtcgctactgtgtagttaggaggaagagctcaggtgga (配列番号
: 1 0 0 2)

40

【 0 5 0 6 】

B*780201 atgcccgtcacggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
cggtcccactccatgaggatattctacaccgccaTgtcccggcccgccgcccggggagccccgcttcatcgagtgggct
acgtggacgacaccagttcgtgaggttcgacagcgacgccgcgagtcagaggacggagccccggcgccatggaTagag

50

caggagggccggagtattgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagagcctgcggaacctgcgcggtactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatggctgcgacgtgggcccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaatatcatcgccctgaacgaggacctgagctcctggaccgcgggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagcctacctggagggcctgtgctggagtggtcccgagaCacctggagaacgggaaggagacgtgcagcgcgggacccccaaagacacacgtgaccaccaccGtctctgaccatgaggccacctgagggtgctgggcccgggctctacctgcgagatcacactgacctggcagcgggatggcgaggaccacactcaggacactgagcttgtggagaccagaccagcaggagatagaaccttccagaagtgggcagctgtggtgggtgctctggagaagagcagagatcacatgccatgtacagcatgagggcctgcgaagccccaccctgagatgggagccatcttcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtccta...gcagtgtggtcatcggagctgtggtcgctactgtgatgttaggaggaagagCtcagggtgga (配列番号: 1003)

10

【0507】

B*780202 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgcccgggagccccgcttcatTgcatgtggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgagtcgaggacggagccccgggcccAtgtagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagagcctgcggaacctgcgcggtactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatTggctgcgacgtgggcccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaAgattacatcgccctgaacgaggacctgAgctcctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagccctacctggagggcTgtgctggagtggtcccgagaCacctggagaacgggaaggagacgtgcagcgcg (配列番号: 1004)

20

【0508】

B*7803 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgcccgggagccccgcttcatTgcagtgggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgagtcgaggacggagccccgggcccagtagagcaggaggggcccggagtattgggaccggaacacacagatctGcaagaccaacAcacagactgaccgagagagcctgcggaacctgcgcggtactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatTggctgcgacgtgggcccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaAgattacatcgccctgaacgaggacctgAgctcctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagccctacctggagggcTgtgctggagtggtcccgagaCacctggagaacgggaaggagacgtgcagcgcg (配列番号: 1005)

30

【0509】

B*7804 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgcccgggagccccgcttcatcgagttgggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgagtcgaggacggagccccgggcccagtagagcaggaggggcccggagtattgggaccggaacacacagatctTcaagaccaacacacagactTaccgagagagcctgcggaacctgcgcggtactacaaccagagcgggcccgggtctcacacttggcagacgatgtatTggctgcgacgtgggcccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaAgattacatcgccctgaacgaggacctgAgctcctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagccctacctggagggcTgtgctggagtggtcccgagatacctggagaacgggaaggagacgtgcagcgcgacccccaaagacacagctgaccaccaccGtctctgaccatgaggccacctgagggtgctgggcccgggctctacctgcgagatcacactgacctggcagcgggatggcgaggaccacactcaggacactgagcttgtggagaccagaccagcaggagatagaaccttccagaagtgggcagctgtggtgggtgctctggagaagagcagagatcacatgccatgtacagcatgaggggctgcccgaagccccaccctgagatggg (配列番号: 1006)

40

【0510】

B*7805 gctcccactccatgaggtatttctacaccgccaigtcccggcccggccgcccgggagccccgcttcatcgagttgggctacgtggacgacaccagttcgtgaggttcgacagcgacgcccgagtcgaggacggagcccgggcccagtagagcaggaggggcccggagtattgggaccgggaGacacagatctCcaagaccaacacacagactTaccgagagagcctgcggaacctgcgcggtactacaaccagagcgggcccgggtctcacacttggcagaCgatgtatTggctgcgacgtgggcccggacggcgccctcctccgcgggcataaaccagtagcctacgacggcaaAgattacatcgccctgaacgaggacctgagctcctggaccgcgggcggacaccgcggtcagatcaccagcgaagtgggagggcccgtaggaggagcagcTgagagccctacctggagggcTgtgctggagtggtcccgagaCacctggagaacgggaaggagacgtgcagcgcg (配列番号: 1007)

50

【 0 5 1 1 】

B*8101 atgctgggtcatggcgccccgaaccgtcctcctgctgctctggggggcagtgccctgaccgagacctgggccc
gctcccactccatgaggtat t tctacacctccgtgtcccggcccggccggggagccccgcttcatctcagtgggctac
gtggacgacaccagttcgtgaggt t cgacagcgacgcccgagtgccgagagaggagccgccccgcccgtgga tagagca
ggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
tgcgcggtactacaaccagagcgaggccgggtctcacacctccagagcatgtacggctgcgacgtggggccggacggg
cgctcctccgccccgataaccagtagcctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
cgccgcccagacggcggtcagatctcccagcgcaagtggagggcccggtgtggcggagcagctgagagcctacctgg
agggcgagtgctggagtggtcctcgagatacctggagaacgggaaggacaagctggagcgcgctgacccccaaagaca
cacgtgaccaccaccatctctgacatgaggccacctgaggtgctgggccc tgggt t tctacctgaggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacactgagcttgtggagaccagaccagcaggagatagaacct
tccagaagtggacagctgtgggggctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
aagcccc tccccagatgggagccgtctcccagtcaccgtccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagttgtggtcatcggagctgtggtcgctgctgtgtagttaggaggaagagttcTggtgga (配列番号
: 1 0 0 8)

10

【 0 5 1 2 】

B*8201 gctcccactccatgaggtat t tctacaccgctatgtcccggcccggccggggagccccgcttcatctcagt
gggctacgtggacgacacgcagttcgtgaggt t cgacagcgacgcccgagtgccgagagaggagccgccccgcccgtgga
tagagcaggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctg
cggaaacctgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggatgtttggctgcgacctggggcc
cgacgggcccctcctccgccccgataaccagttagcctacgacggcaaggattacatcgccctgaacgaggacctgagct
cctggaccgcccggacaccgcccgtcagatcaccagcgcaagtgggagggcccggtgtggcggagcaggacagagacc
tacctggaggAcctgtgctggtgagctcgctccgagatacctggagaacgggaaggagacgctgcagcgcgccc (配
列番号 : 1 0 0 9)

20

【 0 5 1 3 】

B*8202 atgccccgtcacggcaccggaaccctcctcctgctgctctggggggccc tggccctgaccgagacctgggctg
gctcccactccatgaggtat t tctacaccgctatgtcccggcccggccggggagccccgcttcatctcagtgggctac
gtggacgacacgcagttcgtgaggt t cgacagcgacgcccgagtgccgagagaggagccgccccgcccgtgga tagagca
ggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
tgcgcggtactacaaccagagcgaggccgggtctcacacctccagaggatgtttggctgcgacctggggcccggacggg
cgctcctccgccccgataaccagttagcctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
cgccgcccagacaccgcccgtcagatcaccagcgcaagtgggagggcccggtgtggcggagcaggacagagcctacctgg
agggcctgtgctggagtgctcctcgagatacctggagaacgggaaggagacgctgcagcgcgcccacccccaaagaca
catgtgaccaccaccatctctgacatgaggccacctgaggtgctgggccc tgggt t tctacctgaggagatcac
actgacctggcagcgggatggcgaggaccaaactcaggacaccgagcttgtggagaccagaccagcaggagatagaacct
tccagaagtgggacgctgtgggggctctctggagaagagcagagatacacatgccatgtacagcatgaggggctgccg
aagcccc tccccagatgggagccatctcccagtcaccatccccatcgtgggcatgtgtgctggcctggctgtcct
a...gcagttgtggtcatcggagctgtggtTgctactgtgtagttaggaggaagagctcaggtgga (配列番号
: 1 0 1 0)

30

【 0 5 1 4 】

B*8301 atgccccgtcacggcaccggaaccctcctcctgctgctctggggggcaGtggccctgaccgagacctgggccc
gctcccactccatgaggtat t tctacaccgcccAtgtcccggcccggccggggagccccgcttcatctcagtgggctac
gtggacgacaccagttcgtgaggt t cgacagcgacgcccgagtgccgagagaggagccgccccgcccgtgga tagagca
ggaggggcccggagtattgggaccggaacacacagatctacaaggcccaggcacagactgaccgagagagcctgcggaacc
tgcgcggtactacaaccagagcgaggccgggtctcacatcAtccagaggatgtacggctgcgacgtggggccggacggg
cgctcctccgccccgataaccagttagcctacgacggcaaggattacatcgccctgaacgaggacctgagctcctggac
cgccgcccagacaccgcccgtcagatcaccagcgcaagtgggagggcccggtgtggcggagcaggacagagcctacctgg
agggcctTgtgctggagtgctcctcgagatacctggagaacgggaaggagacgctgcagcgcgcccGg (配列番号 :
1 0 1 1)。

40

以下、表 1 - 1 ~ 1 - 9 にプローブリスト 1 を、表 2 - 1 ~ 2 - 8 にプローブリスト 2 を

50

示す。

【 0 5 1 5 】

【 表 1 】

表 1 - 1

プローブ番号	塩基配列	
0	agg tat ttc tac acc tcc G	(配列番号:1)
1	ct cac acc ctc cag agC	(配列番号:2)
2	gc ctc ctc cgc ggg C	(配列番号:3)
3	c cgc ggg cat gac cag T	(配列番号:4)
4	gt gag gcg gag cag cG	(配列番号:5)
5	t gag gcg gag cag cgG	(配列番号:6)
6	gcc tac ctg gag ggc gA	(配列番号:7)
7	ggc gag tgc gtg gag tG	(配列番号:8)
8	c ggg aag gac aag ctg G	(配列番号:9)
9	g gag tgg ctc cgc agG	(配列番号:10)
10	gc tac gtg gac gac acG	(配列番号:11)
11	a cag atc tac aag acc aac A	(配列番号:12)
12	gt gag gcg gag cag gaC	(配列番号:13)
13	c ctc ctc cgc ggg cat A	(配列番号:14)
14	cg tct tcc cag tcc acc A	(配列番号:15)
15	ct cac acc ctc cag agG	(配列番号:16)
16	ac cgg aac aca cag atc tT	(配列番号:17)
17	a cag atc ttc aag acc aac A	(配列番号:18)
18	cgc ggg cat gac cag tC	(配列番号:19)
19	c cgg aac aca cag atc tG	(配列番号:20)
20	ca cag act gac cga gag aA	(配列番号:21)
21	g gcc ggg tct cac atc A	(配列番号:22)
22	ac atc atc cag agg atg taT	(配列番号:23)
23	gg atg tat ggc tgc gac C	(配列番号:24)
24	c tgc gac ctg ggg ccC	(配列番号:25)
25	ag aca cag aag tac aag cG	(配列番号:26)
26	c aag cgc cag gca cag G	(配列番号:27)
27	gca cag gct gac cga gT	(配列番号:28)
28	gag gcc ggg tct cac aT	(配列番号:29)
29	g tct cac atc atc cag agG	(配列番号:30)
30	cgc ctc ctc cgc ggg T	(配列番号:31)

【 0 5 1 6 】

【表 2】

表 1 - 2

プローブ番号	塩基配列	
31	c aag gcc cag gca cag G	(配列番号:32)
32	c aag acc aac aca cag act T	(配列番号:33)
33	cgc ggg tat gac cag tC	(配列番号:34)
34	gcc tac ctg gag ggc aC	(配列番号:35)
35	ctg gag aac ggg aag gaG	(配列番号:36)
36	g acg ctg gag cgc gcG	(配列番号:37)
37	gcc tac ctg gag ggc cT	(配列番号:38)
38	ggc ctg tgc gtg gag tC	(配列番号:39)
39	c ggc cgc ggg gag cT	(配列番号:40)
40	tcc tgg acc gcc gcg A	(配列番号:41)
41	cgg aac ctg cgc ggc C	(配列番号:42)
42	gcc tac ctg gag ggc C	(配列番号:43)
43	gg gag gcg gcc cgt gT	(配列番号:44)
44	gt gtg gcg gag cag gaC	(配列番号:45)
45	cgt gag gcg gag cag cT	(配列番号:46)
46	c cgg aac aca cag atc tC	(配列番号:47)
47	ca cag act tac cga gag G	(配列番号:48)
48	ctg cgg acc ctg ctc C	(配列番号:49)
49	c cgc ggg tat gac cag G	(配列番号:50)
50	cac tcc atg agg tat ttc G	(配列番号:51)
51	gg tat ttc gac acc gcc A	(配列番号:52)
52	cg aga gag gag ccg cC	(配列番号:53)
53	a gcc tac ctg gag ggc A	(配列番号:54)
54	g atg tgt agg agg aag agC	(配列番号:55)
55	ctg cgc acc gcg ctc C	(配列番号:56)
56	c cga gag aac ctg cgg aT	(配列番号:57)
57	gag aac ctg cgg atc gC	(配列番号:58)
58	ctg cgg atc gcg ctc C	(配列番号:59)
59	c acg ctg gag cgc gcG	(配列番号:60)
60	g gac cgg aac aca cag aC	(配列番号:61)

【 0 5 1 7 】

【表3】

表1-3

プローブ番号

塩基配列

61	c act tgg cag acg atg taT (配列番号:62)
62	g gag tat tgg gac cgg G (配列番号:63)
63	c cgg gac aca cag atc tT (配列番号:64)
64	cgt gtg gcg gag cag cT (配列番号:65)
65	cgc ggg tac cac cag G (配列番号:66)
66	c aca cag act gac cga gT (配列番号:67)
67	ttc aag acc aac aca cag G (配列番号:68)
68	c cgg gag aca cag atc tC (配列番号:69)
69	g tgc tgg gcc ctg ggC (配列番号:70)
70	g gct cag atc acc cag cT (配列番号:71)
71	g tct cac act tgg cag aC (配列番号:72)
72	cgc ggg cat aac cag ttA (配列番号:73)
73	cg atg tat ggc tgc gac C (配列番号:74)
74	tgg gag cca tct tcc caA (配列番号:75)
75	gag cag ctg aga gcc tG (配列番号:76)
76	gg tct cac acc ctc cag T (配列番号:77)
77	cc aga cca gca gga gaC (配列番号:78)
78	cc ctg aga tgg gag ccA (配列番号:79)
79	c atg agg tat ttc tac acc G (配列番号:80)
80	c tcc cac tcc atg agg C (配列番号:81)
81	g cag gag ggg ccg gaA (配列番号:82)
82	g gag tgg ctc cgc aga C (配列番号:83)
83	g acg ctg cag cgc gcG (配列番号:84)
84	c acc ctc cag agg atg taT (配列番号:85)
85	tc ctg ctg ctc tcg ggA (配列番号:86)
86	gcg ccc cgg gcg ccA (配列番号:87)
87	gag tat tgg gac cgg gaG (配列番号:88)
88	c cgt gag gcg gag cag T (配列番号:89)
89	gac caa act cag gac acC (配列番号:90)
90	cc gcc tac gac ggc aaA (配列番号:91)

10

20

30

【0518】

【表4】

表1-4

プローブ番号	塩基配列	
91	g agc tcc tgg acc gcG	(配列番号:92)
92	g gat tac atc gcc ctg aaT	(配列番号:93)
93	c gac acg cag ttc gtg C	(配列番号:94)
94	cag atc tcc aag acc aac A	(配列番号:95)
95	c gga gct gtg gtc gct A	(配列番号:96)
96	c acc ctc cag agg atg tT	(配列番号:97)
97	tac gcc tac gac ggc aaA	(配列番号:98)
98	cag atc tgc aag acc aac A	(配列番号:99)
99	cg agt ccg agg atg gcT	(配列番号:100)
100	g ggc ctg tgc gtg gaC	(配列番号:101)
101	gg gcc ggc tcc cac tT	(配列番号:102)
102	ac atg aag gcc tcc gcG	(配列番号:103)
103	gca gct gtg gtg gtg cT	(配列番号:104)
104	gtg acc cac cac ccc G	(配列番号:105)
105	g tat tgg gac cgg gag aT	(配列番号:106)
106	gcg agt ccg agg atg gC	(配列番号:107)
107	c acc ctc cag agg atg tC	(配列番号:108)
108	gg acc gcc gcg gac aA	(配列番号:109)
109	g atg tac ggc tgc gac C	(配列番号:110)
110	g tct cac acc ctc cag aC	(配列番号:111)
111	ct cac acc ctc cag acG	(配列番号:112)
112	ac cga gag aac ctg cgC	(配列番号:113)
113	c ggg aag gag acg ctg C	(配列番号:114)
114	cc ctg aac gag gac ctg A	(配列番号:115)
115	g gag ccc cgc ttc atc G	(配列番号:116)
116	agg tat ttc tac acc gcc A	(配列番号:117)
117	t ccg agg atg gcg ccC	(配列番号:118)
118	g ttc gac agc gac gcc A	(配列番号:119)
119	gag ccg cgg gcg ccA	(配列番号:120)
120	g gcg gag cag ctg aga A	(配列番号:121)

【0519】

【表5】

表1-5

プローブ番号	塩基配列	
121	a acc tac ctg gag ggc C	(配列番号:122)
122	acc tac ctg gag ggc cT	(配列番号:123)
123	c tcc aag acc aac aca cG	(配列番号:124)
124	c tac gtg gac gac acg cT	(配列番号:125)
125	c cgg gag aca cag atc tT	(配列番号:126)
126	ac aca cag act tac cga gT	(配列番号:127)
127	ca cag act tac cga gtg aA	(配列番号:128)
128	c cgc ggg cat aac cag tT	(配列番号:129)
129	cc cag ttc gtg agg ttc A	(配列番号:130)
130	c cgg gag aca cag atc tG	(配列番号:131)
131	g gct cag atc acc cag cA	(配列番号:132)
132	acc tac ctg gag ggc aC	(配列番号:133)
133	cac tcc atg agg tat ttc C	(配列番号:134)
134	gac ccc cca aag aca caT	(配列番号:135)
135	gag aca cag atc tcc aag aT	(配列番号:136)
136	gg gag gcg gcc cgt C	(配列番号:137)
137	gcg ccg tgg ata gag caA	(配列番号:138)
138	g acc aac aca cag act tac A	(配列番号:139)
139	ac acc ctc cag aat atg taT	(配列番号:140)
140	g gag ccc cgc ttc att G	(配列番号:141)
141	g gat tac atc gcc ctg aaG	(配列番号:142)
142	c acc ctc cag agg atg tG	(配列番号:143)
143	gcg ccg tgg ata gag caA	(配列番号:144)
144	cga gag aac ctg cgc aC	(配列番号:145)
145	gag aac ctg cgc acc gC	(配列番号:146)
146	g tct cac acc ctc cag aaT	(配列番号:147)
147	cag gag ggg ccg gag C	(配列番号:148)
148	ctg ggc ttc tac cct gG	(配列番号:149)
149	ca cag act gac cga gag G	(配列番号:150)
150	c gcc gcg gac acg gcA	(配列番号:151)

【0520】

【表 6】

表 1 - 6

プローブ番号	塩基配列	
151	ctg ctc tgg ggg gca G	(配列番号:152)
152	c cag agc gag gcc ggT	(配列番号:153)
153	c tcc gtg tcc cgg ccT	(配列番号:154)
154	cgc ggg tac cac cag C	(配列番号:155)
155	tg acc gag acc tgg gcT	(配列番号:156)
156	cag gag ggg ccg gag tT	(配列番号:157)
157	cga gag agc ctg cgg aC	(配列番号:158)
158	c acg gcg gct cag atc T	(配列番号:159)
159	cg gag cag ctg aga gcT	(配列番号:160)
160	gg ccc gac ggg cgc T	(配列番号:161)
161	cgc ggg cat gac cag tT	(配列番号:162)
162	cc atg tcc cgg ccc gT	(配列番号:163)
163	g acc gcg gcg gac acC	(配列番号:164)
164	c tgc gac gtg ggg ccC	(配列番号:165)
165	t ccg agg acg gag ccC	(配列番号:166)
166	gag ccc cgg gcg ccA	(配列番号:167)
167	cc gcg agt ccg agg aC	(配列番号:168)
168	cac atc atc cag agg atg tT	(配列番号:169)
169	ca cag act tac cga gag aA	(配列番号:170)
170	c atg tac ggc tgc gac C	(配列番号:171)
171	ctg cgg aac ctg cgc gA	(配列番号:172)
172	cat gac cag tcc gcc tG	(配列番号:173)
173	c acc atc cag agg atg tC	(配列番号:174)
174	gac ctg agc tcc tgg acA	(配列番号:175)
175	cga gag agc ctg cgc aC	(配列番号:176)
176	g cag gag ggg ccg gG	(配列番号:177)
177	ga acc tac ctg gag ggc A	(配列番号:178)
178	a acc tac ctg gag ggc aT	(配列番号:179)
179	c tgg acc gcg gcg gaG	(配列番号:180)
180	ta gag cag gag ggg ccA	(配列番号:181)

【 0 5 2 1 】

【表7】

表1-7

プローブ番号	塩基配列	
181	tct cac act tgg cag acG	(配列番号:182)
182	g gcg gag cag cgg aga A	(配列番号:183)
183	cgG ccc ggc cgc ggA	(配列番号:184)
184	gg tct cac acc ctc caC	(配列番号:185)
185	c cgc ggg tat aac cag ttA	(配列番号:186)
186	g gcg gag cag tgg aga A	(配列番号:187)
187	gaa tat tgg gac cgg gaG	(配列番号:188)
188	gcg gct cag atc acc cG	(配列番号:189)
189	cac acc ctc cag agc aC	(配列番号:190)
190	ag tgg gag gcg gcc cT	(配列番号:191)
191	g acc gag acc tgg gcG	(配列番号:192)
192	c gcc acg agt ccg agg A	(配列番号:193)
193	g atc tcc cag cgc aag tT	(配列番号:194)
194	tg gag gcg gcc cgt gT	(配列番号:195)
195	tg acc gag acc tgg gcT	(配列番号:196)
196	g cgc tcc tgg acc gcG	(配列番号:197)
197	ag ggc gag tgc gtg gaT	(配列番号:198)
198	gg tat ttc cac acc gcc A	(配列番号:199)
199	c cgc ggg cat aac cag A	(配列番号:200)
200	ccg gag tat tgg gac cC	(配列番号:201)
201	gg tct cac atc atc cag G	(配列番号:202)
202	c gcc tac gac ggc aag A	(配列番号:203)
203	cgc ggg cat aac cag tC	(配列番号:204)
204	cc ggg tct cac act tgG	(配列番号:205)
205	c act tgg cag agg atg taT	(配列番号:206)
206	ga gag agc ctg cgg aaG	(配列番号:207)
207	c ggg aag gac acg ctg C	(配列番号:208)
208	c acg ctg cag cgc gcG	(配列番号:209)
209	cc atc tct gac cat gag gT	(配列番号:210)
210	cgg gag aca cag atc tcG	(配列番号:211)

【0522】

【表 8】

表 1 - 8

プローブ番号	塩基配列	
211	g gag gcg gcc cgt gtC	(配列番号:212)
212	a gag aac ctg cgc acc G	(配列番号:213)
213	gg gag ccc cgc ttc atT	(配列番号:214)
214	ctg cgc acc ccg ctc C	(配列番号:215)
215	gg ccg gag tat tgg gaG	(配列番号:216)
216	c cgc ggg cat aac cag G	(配列番号:217)
217	ggc gag tgc gtg gag tC	(配列番号:218)
218	cgg gcg ccg tgg gtG	(配列番号:219)
219	ga gag aac ctg cgg atc G	(配列番号:220)
220	gtg gac gac acg ctg ttG	(配列番号:221)
221	tg gag ggc ctg tgc gC	(配列番号:222)
222	gac ggc aag gat tac atc A	(配列番号:223)
223	c cgc ggg tat aac cag tT	(配列番号:224)
224	ctc cgc ggg tat aac cG	(配列番号:225)
225	gcg gag cag gac aga gT	(配列番号:226)
226	gag aca cag aag tac aag C	(配列番号:227)
227	cgc cag gca cag act gG	(配列番号:228)
228	t gtg gtc gct gct gtg G	(配列番号:229)
229	c ctg cgg aac ctg ctc C	(配列番号:230)
230	aga acc ttc cag aag tgg A	(配列番号:231)
231	ag ccc cgc ttc atc tcC	(配列番号:232)
232	c cgc ggg tat aac cag ttA	(配列番号:233)
233	ggc ctg tgc gtg gag G	(配列番号:234)
234	cgg atc gcg ctc cgc G	(配列番号:235)
235	ttc gcc tac gac ggc aaA	(配列番号:236)
236	ctc ctc cgc ggg cat aaA	(配列番号:237)
237	g cgt ctc ctc cgc ggT	(配列番号:238)
238	c ggg cgc ctc ctc cC	(配列番号:239)
239	g agt ccg agg acg gag A	(配列番号:240)
240	ata gag cag gag ggg cG	(配列番号:241)

【 0 5 2 3 】

【表 9】

表 1 - 9

プローブ番号	塩基配列	
241	cc aga cca gca gga gat G	(配列番号:242)
242	cag cat gag ggg ctg cT	(配列番号:243)
243	cag act tac cga gag aac T	(配列番号:244)
244	gc gac gcc gcg agt cA	(配列番号:245)
245	c cgc ggg gag ccc cC	(配列番号:246)
246	cga gag agc ctg cgg aT	(配列番号:247)
247	gag agc ctg cgg atc gC	(配列番号:248)
248	g gca cag act gac cga gT	(配列番号:249)
249	g acc gcc gcg gac acC	(配列番号:250)
250	g cag gag ggg ccg gC	(配列番号:251)
251	cc gcg agt ccg aga gG	(配列番号:252)
252	gg tct cac act tgg cag aT	(配列番号:253)
253	acg gca ccc cga acc C	(配列番号:254)
254	ctc ctc ctg ctg ctc tG	(配列番号:255)
255	ag aca cag aag tac aag gG	(配列番号:256)
256	gg tct cac atc atc cag gT	(配列番号:257)
257	gc ggg cat gac cag tcT	(配列番号:258)
258	g acc gcg gcg gac acA	(配列番号:259)
259	g ccg gag tat tgg gac G	(配列番号:260)
260	c ctc ctc cgc ggg tat A	(配列番号:261)
261	c acg gcg gct cag atc aT	(配列番号:262)
262	tg cgg atc gcg ctc cC	(配列番号:263)
263	g ccg gag tat tgg gac gA	(配列番号:264)
264	g gag gcg gcc cgt gC	(配列番号:265)
265	c gac gcc gcg agt ccA	(配列番号:266)
266	gtc acc gta gct gtg gtC	(配列番号:267)
267	g tgt agg agg aag agt tcT	(配列番号:268)
268	c aga gcc tac ctg gag gA	(配列番号:269)
269	gtc atc gga gct gtg gtT	(配列番号:270)

【 0 5 2 4 】

【表 1 0】

表 2-1

プローブ番号	塩基配列	
0	c acc tcc Gtg tcc cgg	(配列番号:271)
1	c ctc cag agC atg tac gg	(配列番号:272)
2	c cgc ggg Cat gac cag	(配列番号:273)
3	cat gac cag Tac gcc tac	(配列番号:274)
4	g gag cag cGg aga gcc	(配列番号:275)
5	gag cag cgG aga gcc ta	(配列番号:276)
6	g gag ggc gAg tgc gtg	(配列番号:277)
7	c gtg gag tGg ctc cgc	(配列番号:278)
8	ac aag ctg Gag cgc gct	(配列番号:279)
9	ctc cgc agG tac ctg ga	(配列番号:280)
10	g gac gac acG cag ttc gt	(配列番号:281)
11	aag acc aac Aca cag act g	(配列番号:282)
12	g gag cag gaC aga gcc ta	(配列番号:283)
13	cgc ggg cat Aac cag tac	(配列番号:284)
14	cag tcc acc Atc ccc atc	(配列番号:285)
15	c ctc cag agG atg tac gg	(配列番号:286)
16	aca cag atc tTc aag acc aa	(配列番号:287)
17	t gac cag tCc gcc tac g	(配列番号:288)
18	ca cag atc tGc aag gcc c	(配列番号:289)
19	c cga gag aAc ctg cgg a	(配列番号:290)
20	tct cac atc Atc cag agg a	(配列番号:291)
21	g agg atg taI ggc tgc ga	(配列番号:292)
22	c tgc gac Ctg ggg ccc	(配列番号:293)
23	ctg ggg ccC gac ggg	(配列番号:294)
24	g tac aag cGc cag gca c	(配列番号:295)
25	ag gca cag Gct gac cga	(配列番号:296)
26	t gac cga gTg agc ctg c	(配列番号:297)
27	gg tct cac aTc atc cag ag	(配列番号:298)
28	c atc cag agG atg tac gg	(配列番号:299)
29	tc cgc ggg Tat gac cag	(配列番号:300)
30	aag acc aac Aca cag act ta	(配列番号:301)

【 0 5 2 5】

【表 1 1】

表 2-2

プローブ番号	塩基配列	
31	aca cag act Tac cga gag a	(配列番号:302)
32	g gag ggc aCg tgc gtg	(配列番号:303)
33	ggg aag gaG acg ctg ga	(配列番号:304)
34	g aag gag aCg ctg gag c	(配列番号:305)
35	g gag ggc cTg tgc gtg	(配列番号:306)
36	c gtg gag tCg ctc cgc	(配列番号:307)
37	c ggg gag cTc cgc ttc	(配列番号:308)
38	c gcc gcg Aac acg gcg	(配列番号:309)
39	tg cgc ggc Cac tac aac	(配列番号:310)
40	g gag ggc Ctg tgc gtg	(配列番号:311)
41	g gcc cgt gTg gcg gag	(配列番号:312)
42	g gag cag cTg aga gcc t	(配列番号:313)
43	ca cag atc tCc aag acc aa	(配列番号:314)
44	aca cag act Tac cga gag g	(配列番号:315)
45	c cga gag Gac ctg cgg	(配列番号:316)
46	cc ctg ctc Cgc tac tac	(配列番号:317)
47	tat gac cag Gac gcc tac	(配列番号:318)
48	agg tat ttc Gac acc gcc	(配列番号:319)
49	c acc gcc Atg tcc cgg	(配列番号:320)
50	gag ccg cCg gcg ccg	(配列番号:321)
51	g gag ggc Acg tgc gtg	(配列番号:322)
52	g agg aag agC tca ggt gg	(配列番号:323)
53	cc gcg ctc Cgc tac tac	(配列番号:324)
54	c ctg cgg aTc gcg ctc	(配列番号:325)
55	g cgg atc gCg ctc cgc	(配列番号:326)
56	tc gcg ctc Cgc tac tac	(配列番号:327)
57	g aag gac aCg ctg gag c	(配列番号:328)
58	ac aca cag aCc ttc aag ac	(配列番号:329)
59	g acg atg taT ggc tgc ga	(配列番号:330)
60	gg gac cgg Gac aca cag	(配列番号:331)
61	ac cac cag Gac gcc tac	(配列番号:332)

【 0 5 2 6 】

【表 1 2】

表 2 - 3

プローブ番号	塩基配列	
62	aac aca cag Gct gac cga	(配列番号:333)
63	gcc ctg ggC ttc tac cc	(配列番号:334)
64	c acc cag cTc aag tgg g	(配列番号:335)
65	ct tgg cag aCg atg tat gg	(配列番号:336)
66	t aac cag ttA gcc tac gac	(配列番号:337)
67	c tgc gac Ctg ggg ccg	(配列番号:338)
68	a tct tcc caA tcc acc gtc	(配列番号:339)
69	g aga gcc tGc ctg gag g	(配列番号:340)
70	acc ctc cag Tgg atg tat g	(配列番号:341)
71	a gca gga gaC aga acc ttc	(配列番号:342)
72	a tgg gag ccA tct tcc ca	(配列番号:343)
73	tc tac acc Gcc gtg tcc	(配列番号:344)
74	tcc atg agg Cat ttc tac ac	(配列番号:345)
75	g ggg ccg gaA tat tgg ga	(配列番号:346)
76	tc cgc aga Cac ctg gag	(配列番号:347)
77	g acg ctg Cag cgc gcg	(配列番号:348)
78	ctc tcg ggA gcc ctg g	(配列番号:349)
79	cgg gcg ccA tgg ata ga	(配列番号:350)
80	g gac cgg gaG aca cag at	(配列番号:351)
81	cg gag cag Tgg aga gcc	(配列番号:352)
82	t cag gac acC gag ctt gt	(配列番号:353)
83	c gac ggc aaA gat tac atc	(配列番号:354)
84	tgg acc gcG gcg gac a	(配列番号:355)
85	c gcc ctg aaT gag gac ct	(配列番号:356)
86	cag ttc gtg Cgg ttc gac	(配列番号:357)
87	gtg gtc gct Act gtg atg	(配列番号:358)
88	ag agg atg tTt ggc tgc g	(配列番号:359)
89	ca cag atc tGc aag acc aa	(配列番号:360)
90	agg atg gcT ccc cgg g	(配列番号:361)
91	tgc gtg gaC ggg ctc c	(配列番号:362)
92	gc tcc cac tTc atg agg t	(配列番号:363)

【 0 5 2 7 】

【表 1 3】

表 2-4

プローブ番号

塩基配列

93	gcc tcc gcG cag act ta	(配列番号:364)	
94	tg gtg gtg cTt tct gga g	(配列番号:365)	
95	ac cac ccc Gtc tct gac	(配列番号:366)	
96	ac cgg gag aTā cag atc tc	(配列番号:367)	
97	g agg atg gCg ccc cgg	(配列番号:368)	
98	g agg atg tCt ggc tgc g	(配列番号:369)	10
99	c gcg gac aAg gcg gct	(配列番号:370)	
100	cc ctc cag aCg atg tac g	(配列番号:371)	
101	c ctc cag acG atg tac gg	(配列番号:372)	
102	aac ctg cgC acc gcg c	(配列番号:373)	
103	ag gac ctg Agc tcc tgg	(配列番号:374)	
104	gc ttc atc Gca gtg ggc	(配列番号:375)	
105	atg gcg ccC cgg gcg	(配列番号:376)	
106	c gac gcc Acg agt ccg	(配列番号:377)	
107	cag ctg aga Acc tac ctg	(配列番号:378)	
108	cc aac aca cGg act tac c	(配列番号:379)	
109	ggg aag gaG acg ctg ca	(配列番号:380)	20
110	ac gac acg cTg ttc gtg a	(配列番号:381)	
111	ct tac cga gTg aac ctg c	(配列番号:382)	
112	c cga gtg aAc ctg cgg a	(配列番号:383)	
113	at aac cag tTc gcc tac ga	(配列番号:384)	
114	gtg agg ttc Aac agc gac	(配列番号:385)	
115	c acc cag cAc aag tgg g	(配列番号:386)	
116	cg gag cag cTg aga acc t	(配列番号:387)	
117	agg tat ttc Cac acc tcc g	(配列番号:388)	
118	a aag aca caT gtg acc cac	(配列番号:389)	
119	atc tcc aag aTc aac aca ca	(配列番号:390)	
120	g gcc cgt Cag gcg gag	(配列番号:391)	30
121	g ata gag caA gag ggg cc	(配列番号:392)	
122	cag act tac Aga gag agc c	(配列番号:393)	
123	g aat atg taT ggc tgc gac	(配列番号:394)	

【 0 5 2 8 】

【表 1 4】

表 2 - 5

プローブ番号	塩基配列	
124	cgc ttc att Gca gtg ggc	(配列番号:395)
125	gcc ctg aaG gag gac ct	(配列番号:396)
126	ct tac cga gTg agc ctg c	(配列番号:397)
127	g agg atg tGc ggc tgc g	(配列番号:398)
128	g ata gag caA gag ggg cc	(配列番号:399)
129	ca cag atc tGc aag gcc a	(配列番号:400)
130	c ctg cgc aCc gcg ctc	(配列番号:401)
131	cgc acc gCg ctc cgc	(配列番号:402)
132	c ctc cag aaT atg tat ggc	(配列番号:403)
133	gg ccg gag Cat tgg gac	(配列番号:404)
134	tc tac cct gGg gag atc a	(配列番号:405)
135	g gac acg gcA gct cag at	(配列番号:406)
136	g ggg gca Gtg gcc ctg	(配列番号:407)
137	gag gcc ggT tct cac ac	(配列番号:408)
138	tcc cgg ccT ggc cgc	(配列番号:409)
139	ac cac cag Cac gcc tac	(配列番号:410)
140	acc tgg gcT ggc tcc c	(配列番号:411)
141	g gtc acg gAg ccc cga	(配列番号:412)
142	g ccg gag tTt tgg gac c	(配列番号:413)
143	c ctc cag aaT atg tac ggc	(配列番号:414)
144	c ctg cgg aCc ctg ctc	(配列番号:415)
145	ct cag atc Tcc cag cgc	(配列番号:416)
146	g ctg aga gcT tac ctg ga	(配列番号:417)
147	c ggg cgc Ttc ctc cgc	(配列番号:418)
148	at gac cag tTc gcc tac g	(配列番号:419)
149	cgc ggg cat Aac cag ttc	(配列番号:420)
150	cgg ccc gTc cgc ggg	(配列番号:421)
151	gcg gac acC gcg gct c	(配列番号:422)
152	tct cac atc Atc cag agc a	(配列番号:423)
153	gtg ggg ccC gac ggg	(配列番号:424)
154	acg gag ccC cgg gcg	(配列番号:425)

【 0 5 2 9 】

【表 1 5】

表 2 - 6

プローブ番号

塩基配列

155	t ccg agg aCg gag ccc	(配列番号:426)
156	ac ctg cgc gAc tac tac a	(配列番号:427)
157	g tcc gcc tGc gac ggc	(配列番号:428)
158	tcc tgg acA gcg gcg g	(配列番号:429)
159	c cga gag aAc ctg cgc a	(配列番号:430)
160	g ggg ccg gGa tat tgg g	(配列番号:431)
161	tg gag ggc Atg tgc gtg	(配列番号:432)
162	g gag ggc aTg tgc gtg g	(配列番号:433)
163	gcg gcg gaG acc gcg	(配列番号:434)
164	g gag ggg ccA gaa tat tg	(配列番号:435)
165	ct tgg cag aCg atg tac g	(配列番号:436)
166	t tgg cag acG atg tac gg	(配列番号:437)
167	cag cgg aga Acc tac ctg	(配列番号:438)
168	ggc cgc ggA gag ccc	(配列番号:439)
169	c acc ctc caC agg atg ta	(配列番号:440)
170	cg gag cag Tgg aga acc	(配列番号:441)
171	cag tgg aga Acc tac ctg	(配列番号:442)
172	g atc acc cGg cgc aag t	(配列番号:443)
173	c cag agc aCg tac ggc t	(配列番号:444)
174	g gcg gcc cTt gtg gcg	(配列番号:445)
175	acc tgg gcG ggc tcc c	(配列番号:446)
176	gtc acg gcA ccc cga ac	(配列番号:447)
177	agg tat ttc Cac acc gcc	(配列番号:448)
178	gt ccg agg Aag gag ccg	(配列番号:449)
179	g cgc aag tTg gag gcg g	(配列番号:450)
180	acc tgg gcT ggc tcc c	(配列番号:451)
181	tgc gtg gaT tgg ctc cg	(配列番号:452)
182	cat aac cag Aac gcc tac g	(配列番号:453)
183	t tgg gac cCg gag aca c	(配列番号:454)
184	atc atc cag Gtg atg tat gg	(配列番号:455)
185	gac ggc aag Aat tac atc g	(配列番号:456)

10

20

30

【 0 5 3 0 】

【表 16】

表 2-7

プローブ番号	塩基配列	
186	at aac cag tCc gcc tac g	(配列番号:457)
187	ctg cgg aaG ctg cgc g	(配列番号:458)
188	t cac act tgG cag agg atg	(配列番号:459)
189	c acg ctg Cag cgc gcg	(配列番号:460)
190	ac cat gag gTc acc ctg a	(配列番号:461)
191	a cag atc tcG aag acc aac	(配列番号:462)
192	gcc cgt gtC gcg gag c	(配列番号:463)
193	g cgc acc Gcg ctc cg	(配列番号:464)
194	c cgc ttc atT gca gtg gg	(配列番号:465)
195	c ctg cgc aCc ccg ctc	(配列番号:466)
196	cc ccg ctc Cgc tac tac	(配列番号:467)
197	g tat tgg gaG cgg gag ac	(配列番号:468)
198	gc ggg cat Aac cag gac	(配列番号:469)
199	cat aac cag Gac gcc tac	(配列番号:470)
200	ctc cgc ggg Tat aac cag	(配列番号:471)
201	ccg tgg gtG gag cag g	(配列番号:472)
202	g cgg atc Gcg ctc cgc	(配列番号:473)
203	c acg ctg ttG gtg agg tt	(配列番号:474)
204	c ctg tgc gCg gag tcg	(配列番号:475)
205	gat tac atc Acc ctg aac g	(配列番号:476)
206	gg tat aac cGg tta gcc ta	(配列番号:477)
207	ag gac aga gTc tac ctg g	(配列番号:478)
208	aag tac aag Cgc cag gca	(配列番号:479)
209	ca cag act gGc cga gtg a	(配列番号:480)
210	gct gct gtg Gtg tgt agg	(配列番号:481)
211	aac ctg ctc Cgc tac tac	(配列番号:482)
212	cag aag tgg Aca gct gtg	(配列番号:483)
213	cag cgc gcG gac ccc	(配列番号:484)
214	c ttc atc tcC gtg ggc ta	(配列番号:485)
215	c gtg gag Ggg ctc cgc	(配列番号:486)
216	cg ctc cgc Gac tac aac	(配列番号:487)

【 0 5 3 1 】

【表 17】

表 2-8

プローブ番号	塩基配列	
217	c ggg cat aaA cag tac gc	(配列番号:488)
218	c ctc cgc ggT tat aac ca	(配列番号:489)
219	c ctc ctc cCc ggg cat	(配列番号:490)
220	g acg gag Acc cgg gcg	(配列番号:491)
221	g gag ggg cGg gag tat t	(配列番号:492)
222	gca gga gat Gga acc ttc	(配列番号:493)
223	g ggg ctg cTg aag ccc	(配列番号:494)
224	cgg gtc aCg gcg ccc	(配列番号:495)
225	t ccg agg aCg gag ccg	(配列番号:496)
226	cga gag aac Ttg cgg atc	(配列番号:497)
227	c gcg agt cAg agg acg g	(配列番号:498)
228	g gag ccc cCc ttc atc g	(配列番号:499)
229	g ggg ccg gCg tat tgg	(配列番号:500)
230	t ccg aga gGg gag ccg	(配列番号:501)
231	ct tgg cag aTg atg tat gg	(配列番号:502)
232	g tac aag gGc cag gca c	(配列番号:503)
233	tc atc cag gTg atg tat gg	(配列番号:504)
234	t gac cag tcT gcc tac ga	(配列番号:505)
235	gcg gac acA gcg gct c	(配列番号:506)
236	tat tgg gac Ggg gag aca	(配列番号:507)
237	cgc ggg tat Aac cag tac	(配列番号:508)
238	ct cag atc aTc cag cgc a	(配列番号:509)
239	c gcg ctc cCc tac tac a	(配列番号:510)
240	at tgg gac gAg gag aca c	(配列番号:511)
241	gcc cgt gCg gcg gag	(配列番号:512)
242	g aag gag aCg ctg cag c	(配列番号:513)
243	gcg agt ccA aga ggg ga	(配列番号:514)
244	gct gtg gtC gct gtg gt	(配列番号:515)
245	c ctg gag gAc ctg tgc g	(配列番号:516)
246	a gct gtg gtT gct act gtg	(配列番号:517)

【 0 5 3 2 】

以下に、アレル - プローブ対応リストを示す。なお、(アレル - プローブ対応リスト 1) を表 3、(アレル - プローブ対応リスト 2) を表 4 とする：

【 0 5 3 3 】

(アレル - プローブ対応リスト 1)

B*070201 0 1 2 3 4 5 6 7 8

B*070202 9

B*070203 10

B*0703 11

B*0704 12

B*0705 13 14

B*0706 13

B*0707 15

B*0708 16 17

B*0709 18

B*0710 19

B*0711 20 18

B*0712 21 22 23 24

10

20

30

40

50

B*0713 25 26 27
 B*0714 28 21 29 30
 B*0715 31 27
 B*0716 11 32
 B*0717 30 33
 B*0718 28 22
 B*0719 12 34 35 36
 B*0720 37 38
 B*0721 39
 B*0722 40 10
 B*0723 41
 B*0724 42
 B*0725 43 44
 B*0726 45
 B*0727 46 32 47 48
 B*0728 30 49
 B*0729 50 51
 B*0730 52
 B*0731 53 34
 B*0801 50 54 20
 B*0802 50 55 54
 B*0803 56 57 58 13 43 44 53 34 59
 B*0804 50 46 13 44 53 59
 B*0805 60
 B*0806 50 16 20 13 53 59
 B*0807 50 16 44 53 59
 B*0809 50 61 13 44 53 59
 B*0810 50 62 63 13 44 53 59
 B*0811 50 16 13 44 59
 B*0812 50 15 13 44 53 59 30
 B*0813 50 16 64 53 59
 B*0814 50 65 44 53 59
 B*0815 66 44 34 59
 B*0816 67 44 59
 B*0817 50 68 20 69
 B*1301 21 70 54
 B*1302 71 70 54
 B*1303 55 61 72 43 64 37 54
 B*1304 73 18 64 74
 B*1306 70 34 40
 B*1308 75
 B*1309 71 61 72 70
 B*1310 33 70
 B*1311 70 69
 B*1401 76 77 78
 B*1402 79 76 77 78
 B*1403 79 76 77
 B*1404 80
 B*1405 79 81 45 82 83
 B*140601 79 81 15 45 82 83 50

B*140602 79 81 84 45 82 83
 B*15010101 85 86 87 68 32 88 89 54
 B*150102 90 91 88 37 83
 B*150103 92
 B*150104 93 37
 B*1502 85 46 22 30 33 45 89 54
 B*1503 85 10 87 68 94 15 18 45 89 54
 B*1504 85 61 88 89 54
 B*1505 15 43 64 37 89 95
 B*1506 96 45 95 54 10
 B*1507 86 87 68 32 88 54
 B*1508 85 16 32 88 89 54
 B*1509 85 97 45 89 54
 B*1510 85 10 19 98 15 45 89 54
 B*151101 85 86 32 88 89 54
 B*151102 99
 B*1512 100
 B*1513 85 58 22 30 33 45 89 54
 B*1514 85 38 89 54
 B*1515 85 86 46 32 88 89 54 20
 B*1516 101 54
 B*151701 102 65 89 95 54
 B*1518 85 10 19 98 15 18 45 89 54
 B*1519 103
 B*1520 85 104 54
 B*1521 85 19 22 30 33 45 89 54
 B*1523 85 19 98 58 15 18 45 89 54
 B*1524 57 58 15 18 91 88 37 83
 B*1525 85 87 68 22 30 33 45 89 54
 B*1527 96 88 37 30
 B*1528 105
 B*1529 85 16 17 15 18 45 89
 B*1530 68 13 91 88 37
 B*1531 106 15 30 33 43 64 37 83
 B*1532 107 88 37
 B*1533 108
 B*1534 68 109 18 91 88 37 83
 B*1535 110 111 18 91 88 37 83
 B*1536 112 30 33 45 42 37 113 83
 B*1537 10 19 32 114 45 37 82 40
 B*1538 88 82 83
 B*1539 115 106 87 68 94 15 18 45 37 83
 B*1540 115 106 87 68 94 15 18 45 83
 B*1542 68 32 71 61 73 72 34 83
 B*1543 47 88 37 83
 B*1544 19 33 91 45 34 83
 B*1545 116 117 86 87 68 32 91 88 37 83
 B*1546 85 115 118 119 87 68 32 18 88 37 83
 B*1547 10 87 68 94 32 15 18 114 91 83
 B*1548 68 13 120 121 122 83 50

B*1549 123
 B*1550 18 88 34 83
 B*1551 19 18 43 44 37 35 113 83
 B*1552 85 19 15 43 64 83
 B*1553 85 124 118 119 87 68 32 18 88 37 83
 B*1554 85 10 87 68 32 88 89 54
 B*1555 85 43 64 89 54
 B*1556 87 125 32 15 18 91 88 37 83
 B*1557 126 127 37 113 83
 B*1558 85 128 88 37 83 10
 B*1560 129
 B*1561 10 87 68 94 15 18 114 45 37 83
 B*1562 10 87 68 94 32 21 22 23 24 18 114 91 45 37 113 83
 B*1563 116 117 86 87 68 32 15 91 88 37 83
 B*1564 10 46 94 32 15 18 114 45 37 83
 B*1565 116 115 106 87 68 94 32 15 18 91 37 83
 B*1566 85 130 32 88 89 54
 B*1567 131
 B*1568 87 68 32 88 89
 B*1569 68 18 45 120 132 83 20
 B*1570 116 117 86 87 68 94 15 18 91 88 37 83
 B*1571 133 86 87 68 32 15 88 89
 B*1572 10 19 18 45 37 134 89
 B*1573 72 88 37 83
 B*1574 135
 B*1575 136
 B*180101 137 32 15 54
 B*180102 138
 B*1802 137 139 54
 B*1803 137 15 54 30
 B*1804 140 137 46 32 15 43 64 82
 B*1805 141
 B*1806 126 82 95 54
 B*1807 137 16 32 15 43 64 82
 B*1808 142
 B*1809 137 55 15 43 64 82
 B*1810 133 137 46 32 15 43 64
 B*1811 133 137 46 32 15 43 64 34
 B*1812 137 87 68 32 15 43 64 82
 B*1813 133 137 46 32 15 43 82 40
 B*1814 133 137 46 32 43 64 82
 B*1815 133 137 46 32 15 45 82
 B*1818 107 64 82
 B*2701 130 144 145 55 146 65 43 64 83
 B*2702 57 58 146 65 43 54
 B*2703 147
 B*2704 65 148
 B*270502 130 149 146 65 114 64 54
 B*270503 150
 B*270504 151 130 149 146 139 65 114 43 64 83 50

B*270505 152
 B*270506 153 114
 B*2706 148
 B*2707 149 48 13 64 54
 B*2708 130 146 65 43 54
 B*2709 154
 B*2710 130 149 146 139 65 114 45 83
 B*2711 155 48 13 43 64 54
 B*2712 130 98 146 65 43 54
 B*2713 130 149 146 65 114 64 54 10
 B*2714 149 73 65 114 43 64 83
 B*2715 146 65 34 83
 B*2716 130 98 149 146 139 65 114 43 64 83
 B*2717 156
 B*2718 133 124 68 94 32 146 65 114 45 83
 B*2719 149 21 29 65 114 43 64 83
 B*2720 146 13 45 83
 B*2721 130 48 15 30 114 45 83
 B*2723 16 17 32 157 48 146 65 43 64 83
 B*2724 48 158 83 20
 B*2725 146 37 83
 B*350101 16 17 21 22 18 114 43 64 37 104 54
 B*350102 159
 B*3502 160
 B*3503 161 114 43 64 37 104 54
 B*3504 24 13 114 43 64 37 104 54
 B*3505 16 17 18 114 43 64 37 104 54
 B*3506 13 128 114 43 64 37 104 54
 B*3507 162
 B*3508 16 17 21 22 18 114 43 37 104 54 30
 B*350901 24 13 43 64 37 104 54
 B*350902 16 24 13 43 64 37 113 83
 B*3510 87 125 17 32 21 22 23 24 18 114 163 43 64 37
 B*3511 16 17 21 22 18 114 45 37 104 54
 B*3512 13 114 43 64 37 104 54
 B*3513 87 125 32 24 161 114 163 43 64 37 113 83
 B*3514 163 88 37 83
 B*3515 16 17 21 22 18 114 43 64 104 54
 B*3516 87 125 17 32 21 164 18 114 163 43 64 37 113 83
 B*3517 165 166 16 17 32 21 164 18 114 163 43 64 37 113 83 40
 B*3518 16 17 21 24 13 43 37 113 83
 B*3519 119 16 17 32 21 22 23 24 18 114 163 43 64 37 113 83
 B*3520 167 166 46 94 32 21 22 23 24 18 114 163 43 64 37 113 83
 B*3521 18 114 163 45 37 82
 B*3522 167 16 13 114 163 43 64 37 83
 B*3523 168 18 43 64 37 83
 B*3524 18 43 64 37 82
 B*3525 10 16 17 32 21 22 23 24 18 114 163 43 64 37 113 83
 B*3526 81 42 37 83
 B*3527 16 17 169 21 22 23 24 18 114 163 43 64 37 113 83 50

B*3528 167 166 87 68 94 32 21 22 23 24 18 114 163 43 64 37 113 83
 B*3529 165 166 16 17 21 22 23 24 18 114 163 43 64 37 113 83
 B*3530 165 166 16 17 32 21 170 24 18 114 163 43 64 37 113 83
 B*3531 151 165 16 17 32 13 43 64 54
 B*3532 165 166 16 17 32 15 164 18 114 163 43 64 37 113 83
 B*3533 16 32 24 161 114 163 43 64 113 83
 B*3534 165 166 16 17 32 21 22 23 24 114 163 43 64 37 113 83
 B*3535 18 43 64 120 132 83
 B*3536 171
 B*3537 71 61 73 24 18 114 163 43 64 37 113 83 10
 B*3538 21 161 163 43 44 37 35 113 83
 B*3539 165 166 16 17 32 28 29 114 163 43 64 37 83
 B*3541 172
 B*3542 155 104 95 54
 B*3543 167 16 32 15 88 54
 B*3544 16 13 91 88 37 83
 B*3545 21 24 18 163 43 37 38 83
 B*3701 173 54
 B*3702 32 47 146 65 114 64 54
 B*3704 173 82 54 20
 B*3705 173 44 34
 B*3801 56 58 15 64 120 77 78
 B*380201 144 55 15 64 120 77 78
 B*380202 174
 B*3803 81 68 175 55 15 13 128 64 120 132 83
 B*3804 87 169 144 55 15 13 128 43 64 120 132 83
 B*3805 79 56 58 15 64 120 77
 B*3806 16 56 58 15 13 128 43 64 120 132 83
 B*3807 176
 B*3808 81 177 178 83 30
 B*3809 179
 B*390101 19 98 15 64 120 77 78
 B*390103 19 77 54
 B*390104 180
 B*390201 68 77 54
 B*390202 68 94 15 64 120 77 78
 B*3903 19 98 64 120 77 78
 B*3904 116 19 98 15 64 120 77 78
 B*3905 32 15 64 120 77 78
 B*390601 71 181 64 120 77 78 40
 B*390602 71 61 64 120 77 78
 B*3907 81 18 64 120 132
 B*3908 68 32 15 182 77 78
 B*3909 107 77 78
 B*3910 11 15 64 120 77 78
 B*3911 81 19 32 15 182 89
 B*3912 183 113
 B*3913 68 32 15 13 128 43 64 120 132 83
 B*3914 81 19 98 13 64 120 132 83
 B*3915 81 19 98 15 161 64 120 132 83 50

B*3916 184
 B*3917 185 120 132 83
 B*3918 81 88 186 132 83
 B*3919 166 19 98 15 13 128 43 64 120 132 83
 B*3920 169 15 13 128 43 64 120 132 83
 B*3922 81 187 130 98 15 13 128 64 120 132 83
 B*3923 188
 B*3924 189
 B*3926 190
 B*3927 98 66 120 132 113 83 10
 B*400101 191
 B*400102 133 124 118 192 119 87 68 32 15 13 193 194
 B*400103 133 124 118 192 87 68 32 15 13 193 194
 B*4002 155 68 32 13 43 64 54
 B*4003 155 87 68 32 18 43 64 54
 B*4004 155 23 13 43 64 54
 B*4005 155 13 45 37 54
 B*400601 155 71 61 13 43 64 54
 B*4007 125 32 15 13 193 194
 B*4008 155 16 32 13 43 64 54 20
 B*4009 133 124 118 30 43 64 35 113 83
 B*4010 115 118 192 119 87 68 32 15 13 193 194
 B*4011 133 124 118 15 13 43 64 35 113 83
 B*4012 85 10 119 87 68 32 15 13 193 194
 B*4013 155 57 58 13 43 64
 B*401401 133 124 118 13 163 43 64
 B*401402 133 124 118 13 196 43 64
 B*4015 197
 B*4016 133 198 124 118 119 87 68 32 13
 B*4018 133 124 118 68 43 64 35 113 83 30
 B*4019 118 68 94 56 13 43 64 113
 B*4020 155 87 68 32 15 18 43 64
 B*4021 117 86 87 68 32 15 13 193 194
 B*4023 133 124 118 192 119 87 68 32 15 13 158
 B*4024 133 118 119 87 68 94 32 170 24 43 64 113 83
 B*4025 133 124 118 192 119 46 32 15 13 193 194
 B*4026 118 87 68 32 97 45 37
 B*4027 199
 B*4028 23 97 45 37 82
 B*4029 200 13 40
 B*4030 201 193 64
 B*4031 133 124 118 192 119 87 68 32 193 194
 B*4032 133 198 124 118 119 87 68 32
 B*4033 133 124 118 192 119 87 68 32 15 193 194
 B*4034 202
 B*4035 133 124 118 13 114 43 64 35 113 83
 B*4036 15 128 193 194
 B*4037 133 124 118 68 169 13 43 64 35 113 83
 B*4038 203 193 194
 B*4039 155 13 64 34 69 50

B*4040 124 118 68 13 43 64 35 113 83
 B*4042 30 193 194
 B*4043 133 124 118 192 119 87 68 15 13 193 194
 B*4044 124 118 68 32 71 61 43 64 113
 B*4101 204 205 44 34 54
 B*4102 119 32 44 34 54
 B*4103 183 44
 B*4104 24 43 44 53 34 59
 B*4105 206
 B*4106 204 44 34 207 208 10
 B*4201 44 34 54
 B*4202 133 13 43 44 53 34 59
 B*4204 71 61 13 43 44 53 34 59
 B*440201 118 55 44 37 209 54
 B*440202 210 55 44 37 209
 B*440203 211
 B*440301 118 64 37 209 54
 B*440302 118 22 64 37 209 54
 B*4404 34 209 54
 B*4405 87 144 212 55 21 30 44 37 38 83 20
 B*4406 213 44 38
 B*4407 22 64 37 209 54
 B*4408 117 55 44 37 209 54
 B*4409 118 44 37 209 54
 B*4410 168 64 38 83
 B*4411 116 118 119 87 144 214 21 30 49 44 37 38 83
 B*4412 116 118 119 144 212 55 21 30 49 44 37 38 83
 B*4413 215
 B*4414 13 216 44 37 38 83
 B*4415 175 55 30 185 44 38 83 30
 B*4416 116 118 119 87 112 212 21 30 49 44 113 83
 B*4417 18 44 37 38 83
 B*4418 56 58 30 185 44 38 83
 B*4420 61 30 49 44 37 38 83
 B*4421 116 118 119 87 144 212 55 21 30 49 44 217 83
 B*4422 118 119 87 144 212 55 21 30 49 44 37 38 83
 B*4424 218 38 83
 B*4425 68 56 219 58 21 30 44 37 38 83
 B*4426 220
 B*4427 118 55 49 44 37 38 89 40
 B*4428 118 21 22 30 49 163 43 37 38 83
 B*4429 120 38 83
 B*4430 221
 B*4431 193 217
 B*4432 200 38
 B*4433 222
 B*4501 30 185 44 38 89 95 54
 B*4502 32 30 223 44 37 38 83
 B*4503 224
 B*4504 30 185 44 89 95 54 50

B*4505 225
 B*4506 30 185 44 38 83
 B*4601 226 54
 B*4602 227
 B*470101 228
 B*4702 96 43 64 69
 B*4703 229 96 65 43 64 83
 B*4704 94 144 145 55 146 65 43 64 83
 B*4801 32 230
 B*4802 68 94 21 22 18 114 43 64 37 104 54 10
 B*4803 87 68 32 15 13 193 194
 B*4804 83 230
 B*4805 231 87 68 32 13
 B*4806 16 32 13 193 194
 B*4807 128 193 194
 B*4901 58 185 45 89 95 54
 B*4902 144 55 185 45 89
 B*4903 165 56 58 23 30 185 45 37 83
 B*5001 185 45 89 95 54
 B*5002 185 45 38 89 95 54 20
 B*5004 118 30 185 45 37 83
 B*510101 213 16 58 71 45 82 104 54
 B*510102 16 58 71 45 82 104 54
 B*510103 213 16 58 71 61 97 114 45 37 82
 B*510104 213 166 16 58 71 61 13 114 45 37 82
 B*510105 134 104 54
 B*510201 213 16 58 71 97 114 45 37 104 54
 B*510202 16 58 71 97 114 45 37 104 54
 B*5103 233 104
 B*5104 21 45 82 104 54 30
 B*5105 58 97 114 43 37 104
 B*5106 213 166 16 58 97 114 45 37 82
 B*5107 213 167 46 58 71 61 97 114 45 37 82
 B*5108 44 82 104 54
 B*5109 213 43 64 37 82
 B*5110 58 71 61 13 43 64 104
 B*5112 234
 B*511301 213 128 114 45 37 82
 B*511302 213 128 235 114 45 37 82
 B*5114 236 40
 B*5115 56 58 71 61 73 72 43 64 37 83
 B*5116 213 166 16 58 71 61 97 114 45 82
 B*5117 237
 B*5118 238
 B*5119 213 120 122 82
 B*5120 213 44 37 82
 B*5121 213 97 34 82
 B*5122 213 19 58 71 61 97 114 45 37 82
 B*5123 213 45 38
 B*5124 213 166 16 58 71 61 13 45 37 82 50

B*5126 239
 B*5128 240
 B*5129 213 16 58 71 82 104
 B*5130 104 241
 B*5131 213 97 43 64 82
 B*5132 242
 B*5133 213 166 16 58 71 61 97 114 45 37 82
 B*5134 213 166 16 58 71 61 97 114 163 45
 B*520101 68 58 71 45 82 104 54
 B*520102 213 68 58 71 45 82 104 54 10
 B*520103 167 87 68 58 71 61 97 45 37 82
 B*520104 243
 B*5202 213 106 87 68 58 71 61 97 114 45 37 82
 B*5203 213 68 43 64 37
 B*5204 244
 B*5205 245
 B*5301 17 58 21 22 18 114 43 64 37 104 54
 B*5302 58 18 43 64 37 82
 B*5303 47 64 37 83
 B*5304 56 58 24 161 114 163 43 64 37 113 83 20
 B*5305 17 246 247 58 21 22 23 24 18 114 163 43 64 37 113 83
 B*5306 213 18 114 45 37 82
 B*5307 173 64 37
 B*5308 17 169 56 57 58 21 22 23 24 18 114 163 45 37 113 83
 B*5309 112 18 163 43 64 42 37 113 83
 B*5401 93 54
 B*5402 133 93 34
 B*5501 72 34 95 54
 B*5502 72 43 34 95 54
 B*5503 248 72 34 113 83 30
 B*5504 116 115 10 13 249 43 64 34 35 113 83
 B*5505 250
 B*5507 116 251 72 83
 B*5508 115 10 15 13 249 43 64 37 83
 B*5509 116 115 10 71 61 73 72 163 83
 B*5510 71 61 73 72 43 34 83
 B*5511 252 34 83
 B*5512 20 72 43 34 95 54
 B*5601 61 72 43 64 37 95 54
 B*5602 72 43 64 37 95 54 40
 B*5603 253 254 115 15 88 54
 B*5604 115 10 72 43 64 37 83
 B*5605 213 10 71 61 97 114 45 37 82
 B*5606 213 167 166 71 61 97 114 45 37 82
 B*5607 10 144 55 71 61 73 72 43 64 37 83
 B*5608 255 64 37 83
 B*5609 115 10 21 22 23 24 18 114 163 43 64 37 113 83
 B*5610 116 115 10 109 72 43 34 83
 B*5611 253 24 161 163 43 64 37 69
 B*570101 256 18 64 74 50

B*570102	257	
B*5702	13 74	
B*570301	13 64 74	
B*570302	258	
B*5704	201 49 43 83	
B*5705	259 30 260 43 37	
B*5706	261	
B*5707	201 38 83	
B*5708	262	
B*5709	201 12 83	10
B*5801	259 21 95 54	
B*5802	76 54	
B*5804	263	
B*5805	264	
B*5806	76 37	
B*5807	76 38	
B*5901	58 72 43 34 95 54	
B*670101	81 15 64 120 77 78	
B*670102	15 13 128 43 64 120 132 113	
B*6702	265	20
B*7301	266	
B*7801	213 16 71 45 82 104 54	
B*780201	16 32 71 45 82 104 54	
B*780202	213 166 16 32 71 61 97 114 45 37 82	
B*7803	213 19 98 71 61 97 114 45 37 82	
B*7804	97 114 43 64 37 104	
B*7805	167 165 87 68 32 71 61 97 45 37 82	
B*8101	267	
B*8201	268	
B*8202	269	30
B*8301	151 116 21 30 49 44 37 38 83 。	
【 0 5 3 4 】		
(アレループローブ対応リスト 2)		
B*070201	0 1 2 3 4 5 6 7 8	
B*070202	9	
B*070203	10	
B*0703	11	
B*0704	12	
B*0705	13 14	
B*0706	13	40
B*0707	15	
B*0708	16 11	
B*0709	17	
B*0710	18	
B*0711	19 17	
B*0712	20 21 22 23	
B*0713	24 25 26	
B*0714	27 20 28 29	
B*0715	25 26	
B*0716	30 31	50

B*0717 29 17
 B*0718 27 21
 B*0719 12 32 33 34
 B*0720 35 36
 B*0721 37
 B*0722 38
 B*0723 39
 B*0724 40
 B*0725 41 12
 B*0726 42 10
 B*0727 43 44 45 46
 B*0728 29 47
 B*0729 48 49
 B*0730 50
 B*0731 51 32
 B*0801 48 52
 B*0802 48 53 52
 B*0803 54 55 56 13 41 12 51 32 57
 B*0804 48 43 13 12 51 57
 B*0805 58 20
 B*0806 48 16 19 13 51 57
 B*0807 48 16 12 51 57
 B*0809 48 59 13 12 51 57
 B*0810 48 60 16 13 12 51 57
 B*0811 48 16 13 12 57
 B*0812 48 15 13 12 51 57
 B*0813 48 16 42 51 57
 B*0814 48 61 12 51 57
 B*0815 26 12 32 57
 B*0816 62 12 57 30
 B*0817 48 43 19 63
 B*1301 20 64 52
 B*1302 65 64 52
 B*1303 53 59 66 41 42 35 52
 B*1304 67 17 42 68
 B*1306 64 32
 B*1308 69
 B*1309 65 59 66 64
 B*1310 17 64
 B*1311 64 63 40
 B*1401 70 71 72
 B*1402 73 70 71 72
 B*1403 73 70 71
 B*1404 74
 B*1405 73 75 42 76 77
 B*140601 73 75 15 42 76 77
 B*140602 73 75 21 42 76 77
 B*15010101 78 79 80 43 31 81 82 52
 B*150102 83 84 81 35
 B*150103 85 50

B*150104 86 35
 B*1502 78 43 21 29 17 42 82 52
 B*1503 78 10 80 43 30 15 17 42 82 52
 B*1504 78 59 81 82 52
 B*1505 15 41 42 35 82 87
 B*1506 88 42 87 52
 B*1507 79 80 43 31 81 52
 B*1508 78 16 31 81 82 52
 B*1509 78 83 42 82 52
 B*1510 78 10 89 30 15 42 82 52 10
 B*151101 78 79 31 81 82 52
 B*151102 90
 B*1512 91
 B*1513 78 56 21 29 17 42 82 52
 B*1514 78 36 82 52
 B*1515 78 79 43 31 81 82 52
 B*1516 92 52
 B*151701 93 61 82 87 52
 B*1518 78 10 89 30 15 17 42 82 52
 B*1519 94 20
 B*1520 78 95 52
 B*1521 78 89 21 29 17 42 82 52
 B*1523 78 89 30 56 15 17 42 82 52
 B*1524 55 56 15 17 84 81 35
 B*1525 78 80 43 21 29 17 42 82 52
 B*1527 88 81 35
 B*1528 96
 B*1529 78 16 30 15 17 42 82
 B*1530 43 13 84 81 35
 B*1531 97 15 29 17 41 42 35 77 30
 B*1532 98 81 35
 B*1533 99
 B*1534 43 67 17 84 81 35
 B*1535 100 101 17 84 81 35
 B*1536 102 29 17 42 40 35 77
 B*1537 10 89 31 103 42 35 76
 B*1538 81 76
 B*1539 104 97 80 43 30 15 17 42 35 77
 B*1540 104 97 80 43 30 15 17 42 77
 B*1542 43 31 65 59 67 66 32 40
 B*1543 45 81 35 77
 B*1544 89 17 84 42 32 77
 B*1545 49 105 79 80 43 31 84 81 35
 B*1546 78 104 106 79 80 43 31 17 81 35 77
 B*1547 10 80 43 30 31 15 17 103 84 77
 B*1548 43 13 107 40 35 77
 B*1549 108
 B*1550 17 81 32
 B*1551 89 17 41 12 35 109 77
 B*1552 78 89 15 41 42 77 50

B*1553 78 110 106 79 80 43 31 17 81 35 77
 B*1554 78 10 80 43 31 81 82 52
 B*1555 78 41 42 82 52
 B*1556 80 16 31 15 17 84 81 35
 B*1557 111 112 35 77
 B*1558 78 113 81 35 77
 B*1560 114
 B*1561 10 80 43 11 15 17 103 42 35 77
 B*1562 10 80 43 30 31 20 21 22 23 17 103 84 42 35 77
 B*1563 49 105 79 80 43 31 15 84 81 35 10
 B*1564 10 43 30 31 15 17 103 42 35 77
 B*1565 49 104 97 80 43 30 31 15 17 84 35 77
 B*1566 78 89 31 81 82 52
 B*1567 115
 B*1568 80 43 31 81 82
 B*1569 43 17 116 107 32 77
 B*1570 49 105 79 80 43 11 15 17 84 81 35
 B*1571 117 79 80 43 31 15 81 82
 B*1572 10 89 17 42 35 118 82
 B*1573 66 81 35 20
 B*1574 119
 B*1575 120
 B*180101 121 31 15 52
 B*180102 122
 B*1802 121 123 52
 B*1803 121 15 52
 B*1804 124 121 43 31 15 41 42 76
 B*1805 125
 B*1806 126 76 87 52
 B*1807 121 16 31 15 41 42 76 30
 B*1808 127
 B*1809 121 53 15 41 42 76
 B*1810 117 121 43 31 15 41 42
 B*1811 117 121 43 31 15 41 42 32
 B*1812 121 80 43 31 15 41 42 76
 B*1813 117 121 43 31 15 41 76
 B*1814 117 121 43 31 41 42 76
 B*1815 117 121 43 31 15 42 76
 B*1818 98 42 76
 B*2701 129 130 131 53 132 61 41 42 77 40
 B*2702 55 56 132 61 41 52
 B*2703 133
 B*2704 61 134
 B*270502 129 45 132 61 103 42 52
 B*270503 135
 B*270504 136 129 45 132 123 61 103 41 42 77
 B*270505 137
 B*270506 138 103
 B*2706 134
 B*2707 45 46 13 42 52 50

B*2708 129 132 61 41 52
 B*2709 139
 B*2710 129 45 132 123 61 103 42 77
 B*2711 140 46 13 41 42 52
 B*2712 89 11 132 61 41 52
 B*2713 141
 B*2714 45 67 61 103 41 42 77
 B*2715 132 61 32 77
 B*2716 89 11 45 132 123 61 103 41 42 77
 B*2717 142 10
 B*2718 117 110 43 30 31 132 61 103 42 77
 B*2719 45 20 28 61 103 41 42 77
 B*2720 143 13 42 77
 B*2721 129 46 15 29 103 42 77
 B*2723 16 30 31 144 46 132 61 41 42 77
 B*2724 46 145 77
 B*2725 132 35 77
 B*350101 16 30 20 21 17 103 41 42 35 95 52
 B*350102 146
 B*3502 147 20
 B*3503 148 103 41 42 35 95 52
 B*3504 23 13 103 41 42 35 95 52
 B*3505 16 30 17 103 41 42 35 95 52
 B*3506 149 113 103 41 42 35 95 52
 B*3507 150
 B*3508 16 30 20 21 17 103 41 35 95 52
 B*350901 23 13 41 42 35 95 52
 B*350902 16 23 13 41 42 35 77
 B*3510 80 16 30 31 20 21 22 23 17 103 151 41 42 35
 B*3511 16 30 20 21 17 103 42 35 95 52 30
 B*3512 13 103 41 42 35 95 52
 B*3513 80 16 31 23 148 103 151 41 42 35 77
 B*3514 151 81 35
 B*3515 16 30 20 21 17 103 41 42 95 52
 B*3516 80 16 30 31 152 153 17 103 151 41 42 35 77
 B*3517 154 79 16 30 31 152 153 17 103 151 41 42 35 77
 B*3518 16 30 20 23 13 41 35 77
 B*3519 79 16 30 31 20 21 22 23 17 103 151 41 42 35 77
 B*3520 155 79 43 30 31 20 21 22 23 17 103 151 41 42 35 77
 B*3521 17 103 151 42 35 76 40
 B*3522 155 16 13 103 151 41 42 35 77
 B*3523 88 17 41 42 35
 B*3524 17 41 42 35 76
 B*3525 10 16 30 31 20 21 22 23 17 103 151 41 42 35 77
 B*3526 75 40 35 77
 B*3527 16 30 19 20 21 22 23 17 103 151 41 42 35 77
 B*3528 155 79 80 43 30 31 20 21 22 23 17 103 151 41 42 35 77
 B*3529 154 79 16 11 20 21 22 23 17 103 151 41 42 35 77
 B*3530 154 79 16 30 31 152 22 23 17 103 151 41 42 35 77
 B*3531 136 154 16 30 31 13 41 42 52 50

B*3532 154 79 16 30 31 15 153 17 103 151 41 42 35 77
 B*3533 16 31 23 148 103 151 41 42 77
 B*3534 154 79 16 30 31 20 21 22 23 103 151 41 42 35 77
 B*3535 17 41 116 107 32 77
 B*3536 156
 B*3537 65 59 22 23 17 103 151 41 42 35 77
 B*3538 20 148 151 41 12 35 109 77
 B*3539 154 79 16 30 31 27 28 103 151 41 42 35 77
 B*3541 157
 B*3542 140 95 87 10
 B*3543 155 16 31 15 81 52
 B*3544 16 13 84 81 35
 B*3545 20 23 17 151 41 35 36 77
 B*3701 98 52
 B*3702 44 45 132 61 103 42 52
 B*3704 98 76 52
 B*3705 98 12 32
 B*3801 54 56 15 116 107 71 72
 B*380201 130 53 15 116 107 71 72
 B*380202 158 20
 B*3803 75 43 130 53 15 149 113 116 107 32 77
 B*3804 80 159 130 53 15 149 113 41 116 107 32 77
 B*3805 73 54 56 15 116 107 71
 B*3806 16 54 56 15 149 113 41 116 107 32 77
 B*3807 160
 B*3808 75 161 162 77
 B*3809 163
 B*390101 89 11 15 116 107 71 72
 B*390103 89 71 52
 B*390104 164 30
 B*390201 43 71 52
 B*390202 43 11 15 116 107 71 72
 B*3903 89 11 116 107 71 72
 B*3904 49 89 11 15 116 107 71 72
 B*3905 31 15 116 107 71 72
 B*390601 165 166 116 107 71 72
 B*390602 65 59 116 107 71 72
 B*3907 75 17 116 107 32
 B*3908 43 31 15 167 71 72
 B*3909 98 71 72 40
 B*3910 11 15 116 107 71 72
 B*3911 75 89 31 15 167 82
 B*3912 168 77
 B*3913 43 31 15 149 113 41 116 107 32 77
 B*3914 75 89 11 13 116 107 32 77
 B*3915 75 89 11 15 148 116 107 32 77
 B*3916 169
 B*3917 66 107 32
 B*3918 75 170 171 32 77
 B*3919 79 89 11 15 149 113 41 116 107 32 77 50

B*3920 19 15 149 113 41 116 107 32 77
 B*3922 75 80 89 11 15 149 113 116 107 32 77
 B*3923 172
 B*3924 173
 B*3926 174
 B*3927 11 26 107 32 77
 B*400101 175
 B*400102 176 177 110 106 178 79 80 43 31 15 13 179 41
 B*400103 177 110 106 178 80 43 31 15 13 179 41
 B*4002 140 43 31 13 41 42 52 10
 B*4003 140 80 43 31 17 41 42 52
 B*4004 140 67 13 41 42 52
 B*4005 140 13 42 35 52
 B*400601 140 65 59 13 41 42 52
 B*4007 16 31 15 13 179 41
 B*4008 140 16 31 13 41 42 52
 B*4009 117 110 106 29 41 42 109 77
 B*4010 104 106 178 79 80 43 31 15 13 179 41
 B*4011 117 110 106 15 13 41 42 109 77
 B*4012 78 10 79 80 43 31 15 13 179 41 20
 B*4013 140 55 56 13 41 42
 B*401401 177 110 106 13 151 41 42
 B*401402 177 110 106 13 84 41 42
 B*4015 181
 B*4016 176 43 30 31 13
 B*4018 117 110 106 43 41 42 109 77
 B*4019 106 43 30 54 13 41 42 77
 B*4020 140 80 43 31 15 17 41 42
 B*4021 105 79 80 43 31 15 13 179 41
 B*4023 176 177 110 106 178 79 80 43 31 15 13 145 30
 B*4024 117 106 79 80 43 30 31 22 23 41 42 77
 B*4025 177 110 106 178 79 43 31 15 13 179 41
 B*4026 106 80 43 31 83 42 35
 B*4027 182
 B*4028 67 83 42 35 76
 B*4029 183 13
 B*4030 184 179 42
 B*4031 177 110 106 178 79 80 43 31 179 41
 B*4032 177 49 110 106 79 80 43 31
 B*4033 177 110 106 178 79 80 43 31 15 179 41 40
 B*4034 185
 B*4035 117 110 106 13 103 41 42 109 77
 B*4036 15 113 179 41
 B*4037 117 110 106 43 19 13 41 42 109 77
 B*4038 186 179 41
 B*4039 140 13 42 32 63
 B*4040 110 106 43 13 41 42 109 77
 B*4042 29 179 41
 B*4043 177 110 106 178 79 80 43 15 13 179 41
 B*4044 110 106 43 31 65 59 41 42 77 50

B*4101 176 21 12 32 52
 B*4102 176 12 32 52
 B*4103 168 12
 B*4104 23 41 12 51 32 57
 B*4105 187
 B*4106 188 12 32 189
 B*4201 12 32 52
 B*4202 117 13 41 12 51 32 57
 B*4204 65 59 13 41 12 51 32 57
 B*440201 106 53 12 35 190 52 10
 B*440202 191 53 12 35 190
 B*440203 192
 B*440301 106 42 35 190 52
 B*440302 106 21 42 35 190 52
 B*4404 32 190 52
 B*4405 80 130 193 53 20 29 12 35 36 77
 B*4406 194 12 36
 B*4407 21 42 35 190 52
 B*4408 105 53 12 35 190 52
 B*4409 106 12 35 190 52 20
 B*4410 88 42 36
 B*4411 49 106 79 80 195 196 20 29 47 12 35 36 77
 B*4412 49 106 79 130 193 53 20 29 47 12 35 36 77
 B*4413 197
 B*4414 198 199 12 35 36 77
 B*4415 130 53 200 66 12 36
 B*4416 49 106 79 80 102 193 20 29 47 12 77
 B*4417 17 12 35 36 77
 B*4418 176 56 200 12 36 77
 B*4420 59 29 47 12 35 36 77 30
 B*4421 49 106 79 80 130 193 53 20 29 47 12 36 77
 B*4422 106 79 80 130 193 53 20 29 47 12 35 36 77
 B*4424 201 36 77
 B*4425 43 54 202 56 20 29 12 35 36 77
 B*4426 203
 B*4427 106 53 47 12 35 36 82
 B*4428 106 20 21 29 47 151 41 35 36 77
 B*4429 107 36 77
 B*4430 204
 B*4431 179 36 40
 B*4432 183 36
 B*4433 205
 B*4501 176 200 12 36 82 87 52
 B*4502 31 200 113 12 35 36 77
 B*4503 206
 B*4504 176 200 12 82 87 52
 B*4505 207
 B*4506 200 66 12 36
 B*4601 208 52
 B*4602 209 50

B*470101 210
 B*4702 88 41 42 63
 B*4703 211 88 61 41 42
 B*4704 30 130 131 53 132 61 41 42 77
 B*4801 31 212
 B*4802 43 30 20 21 17 103 41 42 35 95 52
 B*4803 80 43 31 15 13 179 41
 B*4804 213 212
 B*4805 214 80 43 31 13
 B*4806 16 31 13 179 41 10
 B*4807 113 179 41
 B*4901 176 56 42 82 87 52
 B*4902 130 53 66 42 82
 B*4903 154 54 56 22 200 66 42 35
 B*5001 176 42 82 87 52
 B*5002 176 42 36 82 87 52
 B*5004 106 200 66 42 35
 B*510101 194 16 56 65 42 76 95 52
 B*510102 16 56 65 42 76 95 52
 B*510103 194 16 56 65 59 83 103 42 35 76 20
 B*510104 194 79 16 56 65 59 13 103 42 35 76
 B*510105 118 95 87
 B*510201 194 16 56 65 83 103 42 35 95 52
 B*510202 16 56 65 83 103 42 35 95 52
 B*5103 215 95
 B*5104 20 42 76 95 52
 B*5105 56 83 103 41 35 95
 B*5106 194 79 16 56 83 103 42 35 76
 B*5107 194 155 43 56 65 59 83 103 42 35 76
 B*5108 12 76 95 52 30
 B*5109 194 41 42 35 76
 B*5110 56 65 59 13 41 42 95
 B*5112 216
 B*511301 194 113 103 42 35 76
 B*511302 194 113 83 103 42 35 76
 B*5114 217
 B*5115 54 56 65 59 67 66 41 42 35
 B*5116 194 79 16 56 65 59 83 103 42 76
 B*5117 218
 B*5118 219 40
 B*5119 194 107 35 76
 B*5120 194 12 35 76
 B*5121 194 83 32 76
 B*5122 194 89 56 65 59 83 103 42 35 76
 B*5123 194 42 36
 B*5124 194 79 16 56 65 59 13 42 35 76
 B*5126 220
 B*5128 221
 B*5129 194 16 56 65 76 95
 B*5130 95 222 50

B*5131 194 83 41 42 76
 B*5132 223
 B*5133 92 76
 B*5134 194 79 16 56 65 59 83 103 151 42
 B*520101 224 43 56 65 42 76 95 52
 B*520102 194 43 56 65 42 76 95 52
 B*520103 225 80 43 56 65 59 83 42 35 76
 B*520104 226
 B*5202 194 97 80 43 56 65 59 83 103 42 35 76
 B*5203 194 43 41 42 35 10
 B*5204 227
 B*5205 228
 B*5301 30 56 20 21 17 103 41 42 35 95 52
 B*5302 56 17 41 42 35 76
 B*5303 45 42 35 77
 B*5304 54 56 23 148 103 151 41 42 35 77
 B*5305 30 54 55 56 20 21 22 23 17 103 151 41 42 35 77
 B*5306 194 17 103 42 35 76
 B*5307 98 42 35
 B*5308 30 19 54 55 56 20 21 22 23 17 103 151 42 35 77 20
 B*5309 102 17 151 41 42 40 35 77
 B*5401 86 52
 B*5402 117 86 32
 B*5501 176 32 87 52
 B*5502 176 41 32 87 52
 B*5503 26 66 32 77
 B*5504 49 104 10 13 151 41 42 32 109 77
 B*5505 229
 B*5507 49 230 66 77
 B*5508 104 10 15 13 151 41 42 35 77 30
 B*5509 49 104 10 65 59 67 66 151
 B*5510 65 59 67 66 41 32
 B*5511 231 32 77
 B*5512 176 19 41 32 87 52
 B*5601 176 59 41 42 35 87 52
 B*5602 176 41 42 35 87 52
 B*5603 176 81 82 87 52
 B*5604 104 10 66 41 42 35
 B*5605 194 10 65 59 83 103 42 35 76
 B*5606 194 155 79 65 59 83 103 42 35 76 40
 B*5607 10 130 53 65 59 67 66 41 42 35
 B*5608 232 42 35 77
 B*5609 104 10 20 21 22 23 17 103 151 41 42 35 77
 B*5610 49 104 10 67 66 41 32
 B*5611 176 23 151 41 42 35 77 63
 B*570101 233 17 42 68
 B*570102 234
 B*5702 13 68
 B*570301 13 42 68
 B*570302 235 50

B*5704 184 47 41 77
B*5705 236 200 237 41 35
B*5706 238
B*5707 184 36 77
B*5708 239
B*5709 184 12 77
B*5801 236 20 87 52
B*5802 70 52
B*5804 240
B*5805 241 10
B*5806 70 35
B*5807 70 36
B*5901 176 56 41 32 87 52
B*670101 75 15 116 107 71 72
B*670102 15 149 113 41 116 107 32 242
B*6702 243
B*7301 244
B*7801 194 16 65 42 76 95 52
B*780201 16 31 65 42 76 95 52
B*780202 194 79 16 31 65 59 83 103 42 35 76 20
B*7803 194 89 11 65 59 83 103 42 35 76
B*7804 83 103 41 42 35 95
B*7805 155 154 80 43 31 65 59 83 42 35 76
B*8101 136 212
B*8201 245
B*8202 246
B*8301 136 49 20 29 47 12 35 36 77

フロントページの続き

審査官 小暮 道明

- (56)参考文献 米国特許出願公開第2003/0165884 (US, A1)
国際公開第00/079006 (WO, A1)
国際公開第01/092572 (WO, A1)
特開平06-303998 (JP, A)
特開平06-090757 (JP, A)
特開平08-308596 (JP, A)
特表平10-506541 (JP, A)
特表平06-505625 (JP, A)
特表2000-511430 (JP, A)
Transplant Immunology, 2002年, Vol.9, pp.173-180
Immunity, 2001年, Vol.14, pp.347-356
検査と技術, 2002年, Vol.30, No.10, pp.1138-1145
Genome Res., 2002年, Vol.12, pp.447-457
Rev. Immunogen., 1999年, Vol.1, pp.220-230
Rev. Immunogen., 1999年, Vol.1, pp.177-208
Hum. Immunol., 2001年, Vol.62, pp.850-857
藤永薫編, 遺伝子増幅PCR法 - 基礎と新しい展開, 共立出版株式会社, 1992年, pp.207-213

(58)調査した分野(Int.Cl., DB名)

C12N15/

C12Q

CA/REGISTRY/BIOSIS/MEDLINE/WPIDS(STN)

JSTPlus/JMEDPlus/JST7580(JDreamII)