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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LAWSONIA INTRACELLULARIS SUBUNIT VACCINES

(57) Abstract: The present invention relates i.a. to nucleic acids encoding novel *Lawsonia intracellularis* proteins. It furthermore relates to DNA fragments, recombinant DNA molecules and live recombinant carriers comprising these sequences. Also it relates to host cells comprising such nucleic acids, DNA fragments, recombinant DNA molecules and live recombinant carriers. Moreover, the invention relates to proteins encoded by these nucleotide sequences and to their use for the manufacturing of vaccines. The invention also relates to vaccines for combating *Lawsonia intracellularis* infections and methods for the preparation thereof. Finally the invention relates to diagnostic tests for the detection of *Lawsonia intracellularis* antigens and of antibodies against *Lawsonia intracellularis*.



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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/195 C12N15/31 C07K16/12 C12Q1/68 A61K39/02

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

EPO-Internal, EMBL, BIOSIS, Sequence Search

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Y	<p>----- WO 02/26250 A (UNIV ARIZONA) 4 April 2002 (2002-04-04) the whole document -----</p>	1-27
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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