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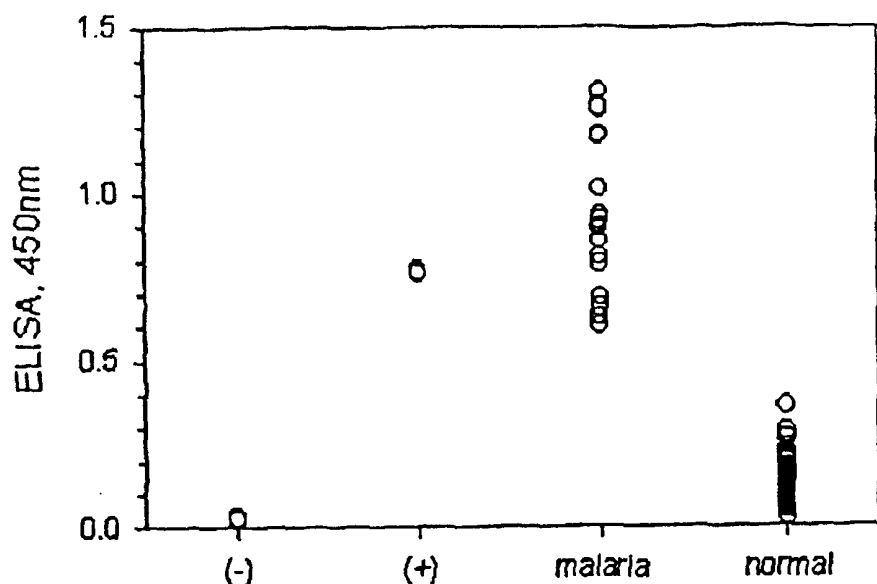
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[Continued on next page]

(54) Title: GENE FOR ENCODING MEROZOITE SURFACE PROTEIN OF PLASMODIUM VIVAX AND USE THEREOF



(57) Abstract: The present invention provides a gene encoding merozoite surface protein of Plasmodium and a method for preparing 27.5 kDa recombinant antigen protein by expressing the above gene in E. coli expression vector. The invention also provides a method of using the gene encoding C-terminal of prior known merozoite surface protein of Plasmodium in determining and/or diagnosing the malarial infection, comprising to clone the gene and to produce about 27 kDa recombinant protein from such gene. More particularly, the invention provides the more simple and convenient method for diagnosing the malarial infection having improvements in higher sensitivity and specificity, compared with conventional diagnosis methods, by applying the enzyme-linked immunosorbent assay(ELISA) method.



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A. CLASSIFICATION OF SUBJECT MATTER**IPC7 C12N 15/30**

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

Korean Patent and application for inventions since 1975

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

IPN, NPS, PAJ, Medline

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MANCILLA LI et al., "Plasmodium vivax: dimorphic DNA sequences from the MSP-1 gene code for regions that are immunogenic in natural infections", Exp Parasito., September 1994, 79(2) pages 148-158. see the whole document.	1-7
A	PAN W et al., "Vaccine candidate MSP-1 from Plasmodium falciparum: a redesigned 4917 bp polynucleotide enables synthesis and isolation of full-length protein from Escherichia coli and mammalian cells", Nucleic Acids Res., February 1999, 27(4) pages 1094-1103. see the whole document.	1-7

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