

-continued

<212> TYPE: PRT
 <213> ORGANISM: Plasmodium berghei
 <400> SEQUENCE: 51
 Ile Asn Leu Gln Asn Leu Asn Tyr Ile
 1 5

<210> SEQ ID NO 52
 <211> LENGTH: 9
 <212> TYPE: PRT
 <213> ORGANISM: Plasmodium berghei
 <400> SEQUENCE: 52
 Ile Ala Val Glu Asn Cys Asn Ile
 1 5

The embodiments of the invention in which an exclusive²⁰ property or privilege is claimed are defined as follows:

1. An immunogenic composition comprising an isolated polypeptide effective for inducing an immune response to liver stage *Plasmodium falciparum* in a mammalian subject, and a pharmaceutically acceptable carrier, wherein the isolated polypeptide comprises at least one of:

- (a) an isolated polypeptide with at least 95% amino acid sequence identity to SEQ ID NO: 21;
 (b) an isolated polypeptide with at least 95% amino acid²⁵ sequence identity to amino acids 6-529 of SEQ ID NO:21; and

(c) an isolated polypeptide with at least 95% amino acid sequence identity to amino acids 587-842 of SEQ ID NO: 21.

2. The immunogenic composition of claim 1 comprising at least one of:

- (a) an isolated polypeptide comprising the amino acid sequence of SEQ ID NO:21;
 (b) an isolated polypeptide comprising amino acids 6-529 of SEQ ID NO:21; and
 (c) an isolated polypeptide comprising amino acids 587-842 of SEQ ID NO: 21.

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