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(54) Title: MATURE VIRUS-LIKE PARTICLES OF FLAVIVIRUSES

(57) Abstract: The present disclosure associates to a modified and expressed virus-like particles. Particularly, the virus-like particle is capable of eliciting immune response in a mammal upon administering a pharmaceutically efficient dosage to the mammal. The virus-like particle comprises a modified form of M and E structural proteins of flavivirus. Further, the virus-like particle comprises an amino acids sequence substantially corresponding to a sequence setting forth in SEQ ID NO. 1, SEQ ID NO. 2, SEQ ID NO. 3 or SEQ ID NO. 4, wherein conserved and internally located His at multiple positions of the M and E proteins are substituted with uncharged residues, and other secretion-enhancing substitutions are introduced.

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