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(54) **LOCALIZATION AND CHARACTERIZATION OF FLAVIVIRUS ENVELOPE GLYCOPROTEIN CROSS-REACTIVE EPITOPES AND METHODS FOR THEIR USE**

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See application file for complete search history.

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(57) **ABSTRACT**

Disclosed herein is a method for identifying flavivirus cross-reactive epitopes. Also provided are flavivirus E-glycoprotein cross-reactive epitopes and flavivirus E-glycoprotein cross-reactive epitopes having reduced or ablated cross-reactivity (and polypeptides comprising such epitopes), as well as methods of using these molecules to elicit an immune response against a flavivirus and to detect a flaviviral infection.

21 Claims, 3 Drawing Sheets