

-continued

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22

- What is claimed is:
1. A recombinant DNA construct comprising:
 - (i) a vector, and
 - (ii) a DNA fragment encoding a chimeric filovirus protein comprising a full-length GP1 from a first filovirus fused to a full-length GP2 from a second filovirus, wherein the COOH-terminus of said GP1 is fused to the NH₂-terminus of GP2.
 2. The recombinant DNA construct according to claim 1 wherein said DNA fragment encodes a chimeric protein chosen from the group consisting of:
 - (i) Marburg Musoke GP1/Ebola Zaire GP2,
 - (ii) Ebola Zaire GP1/Marburg Musoke GP2,
 - (iii) Marburg Musoke GP1/Marburg Ravn GP2, and
 - (iv) Marburg Ravn GP1/Marburg Musoke GP2.
 3. A recombinant DNA construct according to claim 2, wherein said vector is an expression vector.
 4. A recombinant DNA construct according to claim 2, wherein said vector is a prokaryotic vector.
 5. A recombinant DNA construct according to claim 2, wherein said vector is a eukaryotic vector.
 6. A recombinant DNA construct according to claim 2, wherein said vector is a VEE virus replicon vector.
 7. The recombinant DNA construct according to claim 6 wherein said construct is EBOV-MAY GP1 (aa1-501)/MBGV-MUS GP2 (aa436-681).
 8. The recombinant DNA construct according to claim 6 wherein said construct is MBGV-MUD GP1 (aa1-435)/EBOV-MAY GP2 (aa502-676).
 9. The recombinant DNA construct according to claim 6 wherein said construct is MBGV-RVN GP1 (aa1-435)/MBGV-MUS GP2 (aa436-681).
 10. The recombinant DNA construct according to claim 6 wherein said construct is MBGV-MUS GP1 (aa1-435)/MBGV-RVN GP2 (aa436-681).
 11. Self replicating RNA produced from the construct of any of claims 6-10.
 12. Infectious alphavirus particles produced from packaging the self replicating RNA of claim 11.
 13. An isolated host cell transformed with a recombinant DNA construct according to claim 1.
 14. A host cell according to claim 13 wherein said host cell is prokaryotic.
 15. A host cell according to claim 13 wherein said host cell is eukaryotic.
 16. A method for producing chimeric filovirus proteins comprising culturing the cells according to claim 14 under conditions such that said DNA fragment is expressed and said chimeric protein is produced and isolating said protein.
 17. A method for producing chimeric filovirus proteins comprising culturing the cells according to claim 15 under conditions such that said DNA fragment is expressed and said chimeric protein is produced and isolating said protein.
 18. A recombinant DNA vector according to claim 1 wherein said DNA fragment is SEQ ID NO:1.
 19. A recombinant DNA vector according to claim 1 wherein said DNA fragment is SEQ ID NO:3.
 20. A recombinant DNA vector according to claim 1 wherein said DNA fragment is SEQ ID NO:5.
 21. A recombinant DNA vector according to claim 1 wherein said DNA fragment is SEQ ID NO:7.
 22. An immunogenic composition comprising the infectious alphavirus particles of claim 12.
 23. An isolated host cell transformed with a recombinant DNA construct according to claim 6.
 24. The host cell of claim 23 wherein said host cell is prokaryotic.
 25. The host cell of claim 23 wherein said host cell is eukaryotic.
 26. An isolated host cell transformed with a recombinant DNA construct according to claim 7.
 27. The host cell of claim 26 wherein said host cell is prokaryotic.
 28. The host cell of claim 26 wherein said host cell is eukaryotic.
 29. An isolated host cell transformed with a recombinant DNA construct according to claim 8.
 30. The host cell of claim 29 wherein said host cell is prokaryotic.
 31. The host cell of claim 29 wherein said host cell is eukaryotic.
 32. An isolated host cell transformed with a recombinant DNA construct according to claim 9.
 33. The host cell of claim 32 wherein said host cell is prokaryotic.
 34. The host cell of claim 32 wherein said host cell is eukaryotic.
 35. An isolated host cell transformed with a recombinant DNA construct according to claim 10.
 36. The host cell of claim 35 wherein said host cell is prokaryotic.
 37. The host cell of claim 35 wherein said host cell is eukaryotic.

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