

Figure 1

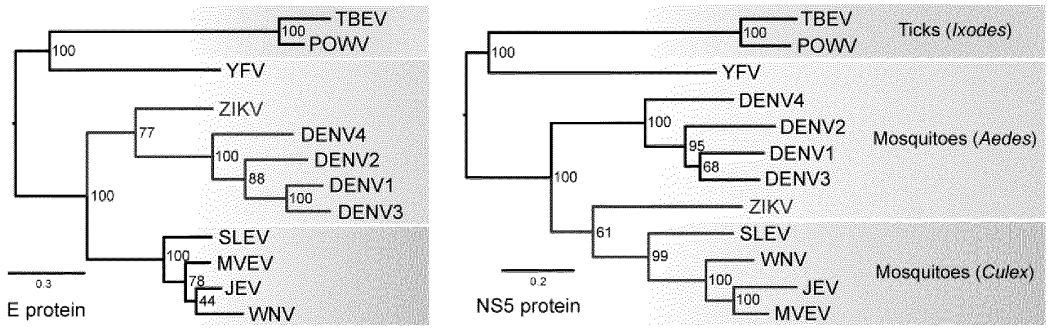


Figure 2

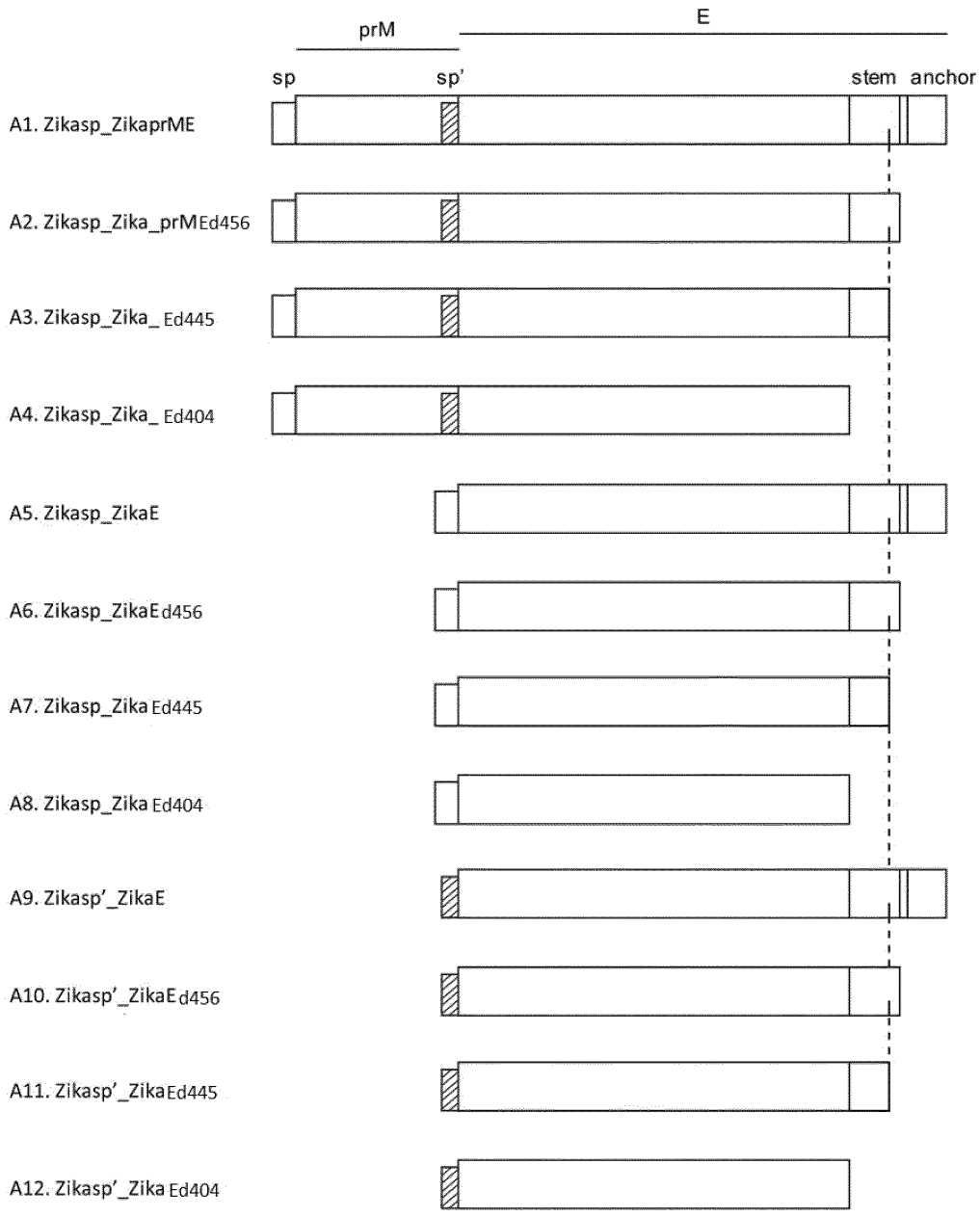

prM
E
sp
sp'
stem
anchor
A1. Zikasp_ZikaprME
A2. Zikasp_Zika_prMEd456
A3. Zikasp_Zika_ Ed445
A4. Zikasp_Zika_ Ed404
A5. Zikasp_ZikaE
A6. Zikasp_ZikaEd456
A7. Zikasp_Zika Ed445
A8. Zikasp_Zika Ed404
A9. Zikasp'_ZikaE
A10. Zikasp'_ZikaEd456
A11. Zikasp'_ZikaEd445
A12. Zikasp'_Zika Ed404

Figure 3A

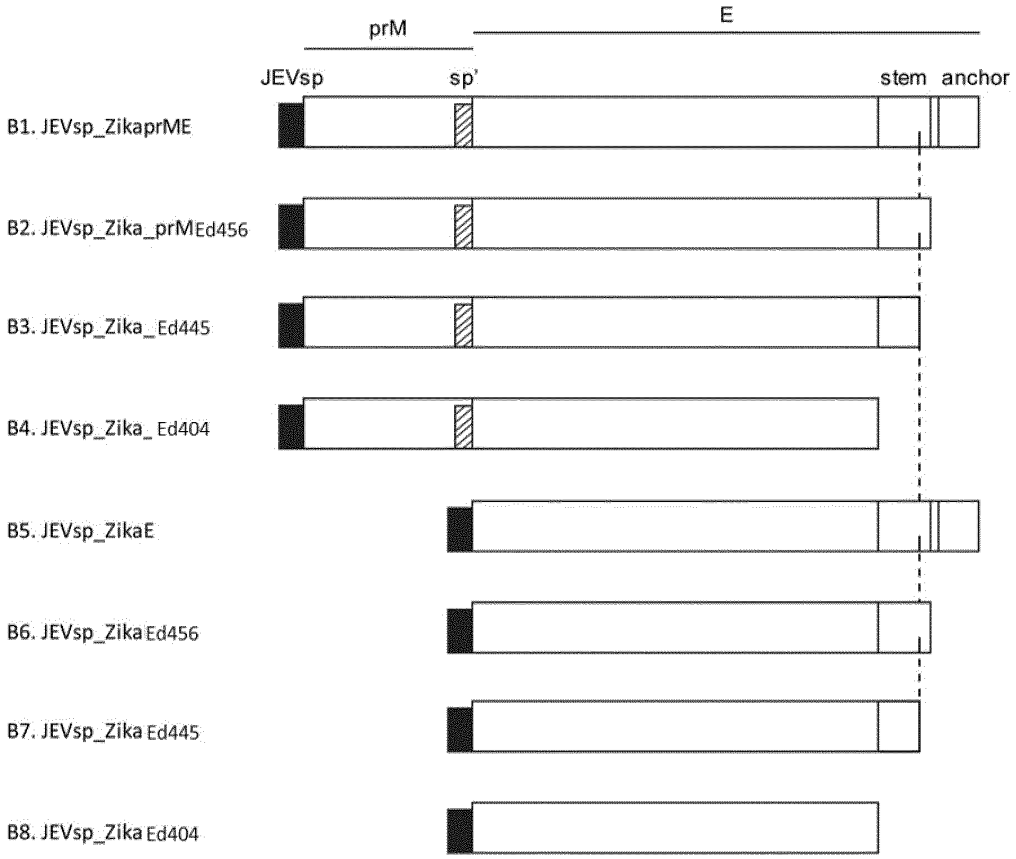

prM
E
JEVsp
sp'
stem
anchor
B1. JEVsp_ZikaprME
B2. JEVsp_Zika_prMEd456
B3. JEVsp_Zika_Ed445
B4. JEVsp_Zika_Ed404
B5. JEVsp_ZikaE
B6. JEVsp_Zika Ed456
B7. JEVsp_Zika Ed445
B8. JEVsp_Zika Ed404

Figure 3B

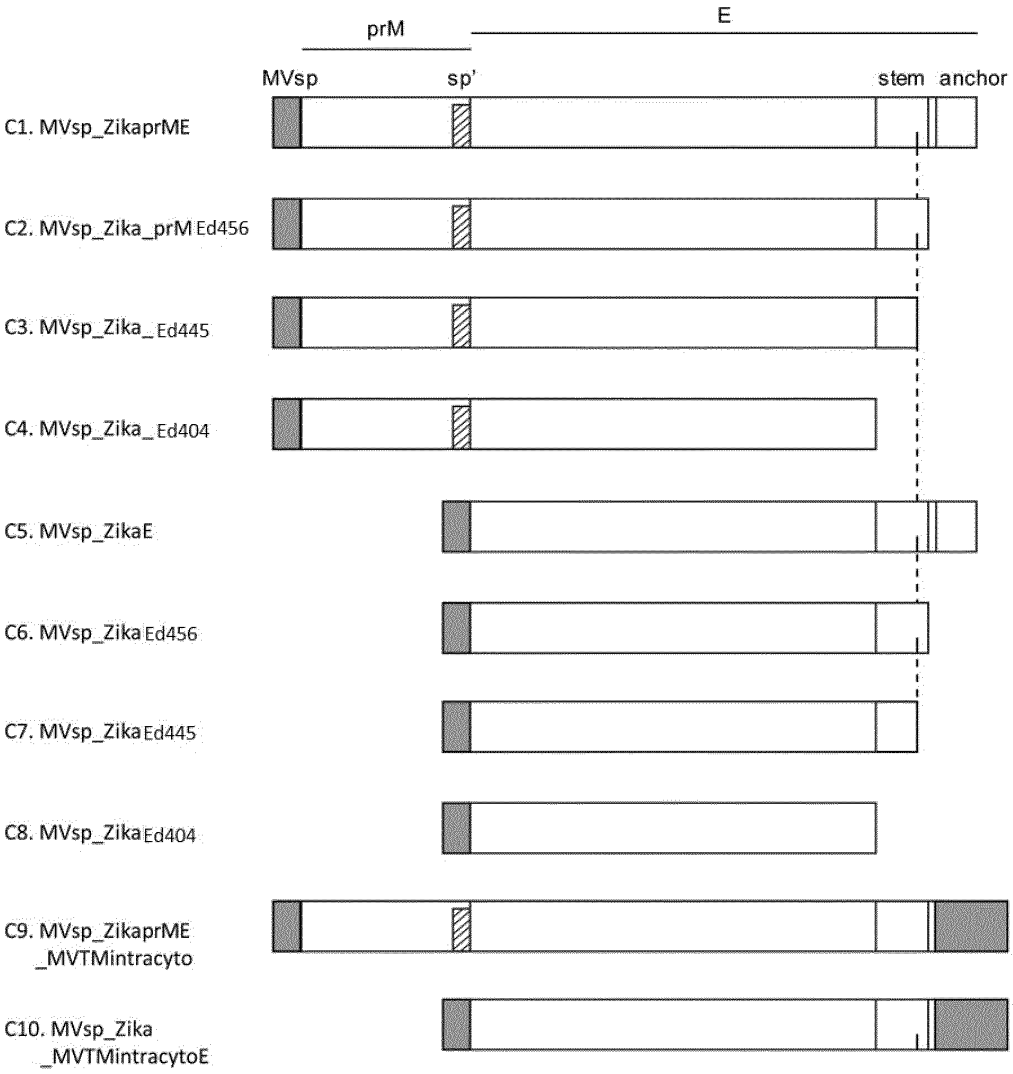

prM
E
MVsp
sp'
stem
anchor
C1. MVsp_ZikaprME
C2. MVsp_Zika_prM Ed456
C3. MVsp_Zika_ Ed445
C4. MVsp_Zika_ Ed404
C5. MVsp_ZikaE
C6. MVsp_Zika Ed456
C7. MVsp_Zika Ed445
C8. MVsp_Zika Ed404
C9. MVsp_ZikaprME _MVTMintracyto
C10. MVsp_Zika _MVTMintracytoE

Figure 3C

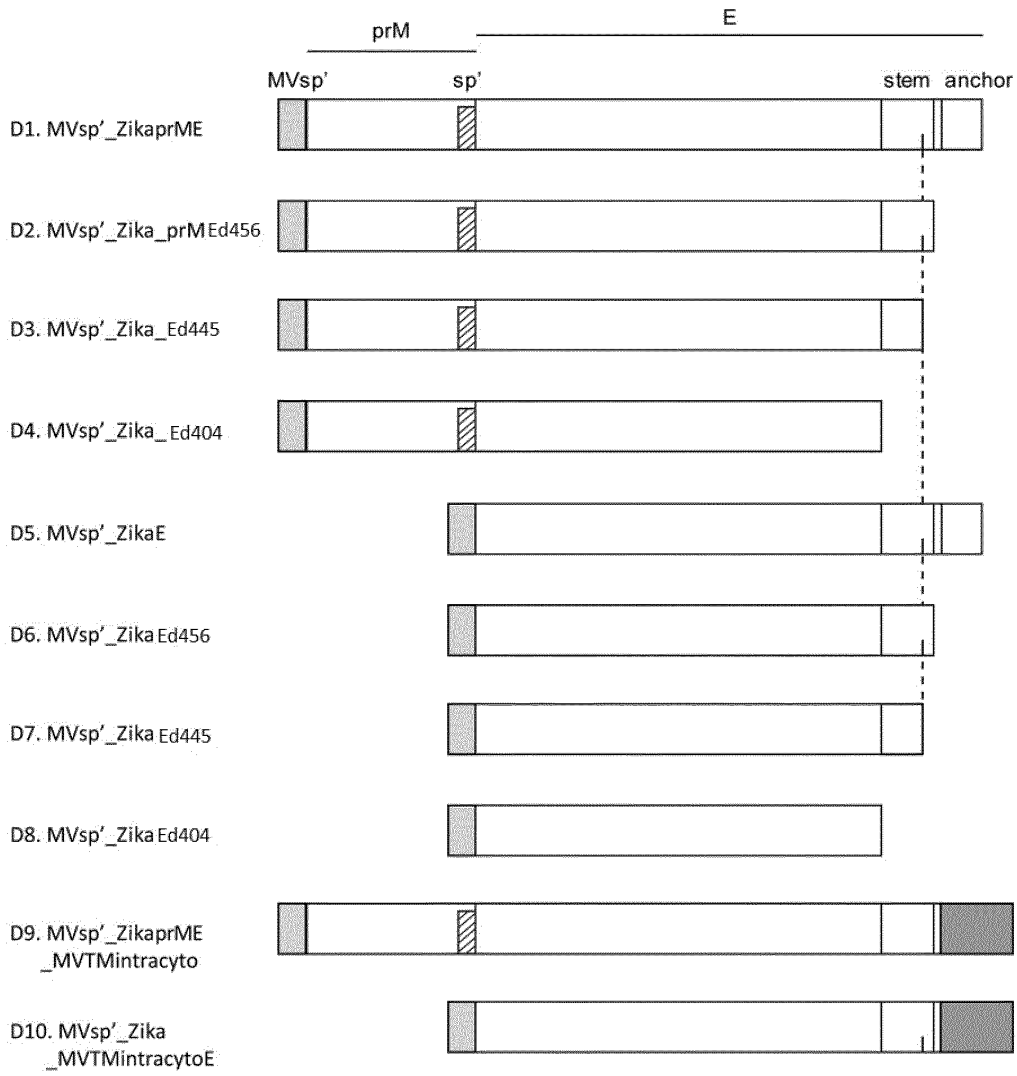

prM
E
MVsp'
sp'
stem
anchor
D1. MVsp'_ZikaprME
D2. MVsp'_Zika_prM Ed456
D3. MVsp'_Zika_Ed445
D4. MVsp'_Zika_ Ed404
D5. MVsp'_ZikaE
D6. MVsp'_Zika Ed456
D7. MVsp'_Zika Ed445
D8. MVsp'_Zika Ed404
D9. MVsp'_ZikaprME _MVTMintracyto
D10. MVsp'_Zika _MVTMintracytoE

Figure 3D

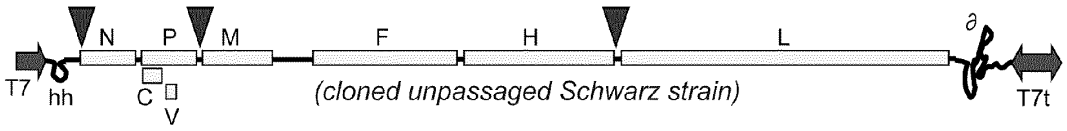
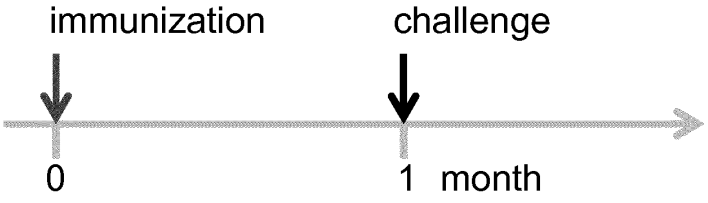


Figure 4



6 CD46-IFNAR mice per group

Immunization: MV vectors 10^6 $TCID_{50}$/mouse

Challenge: ZIKV African strain 10^6 pfu/mouse

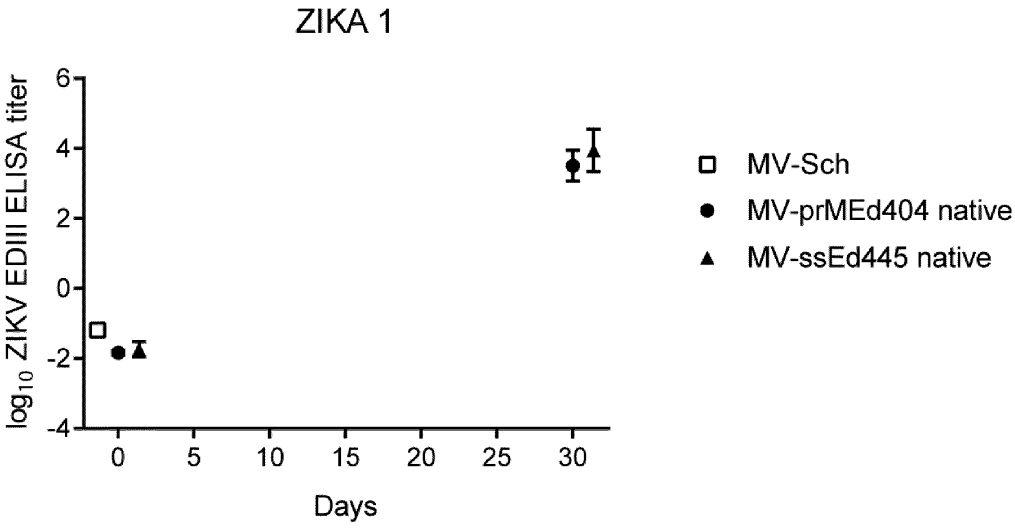


Figure 5A

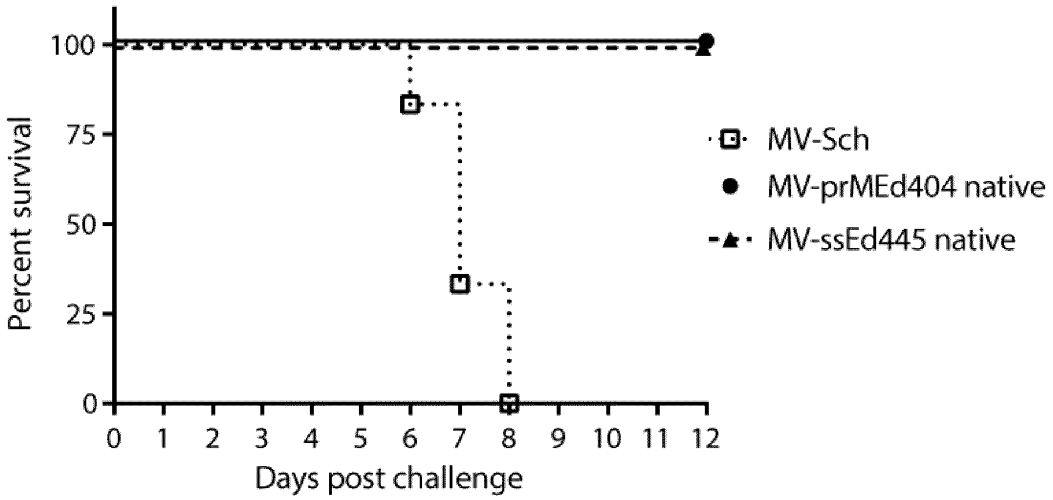


Figure 5B

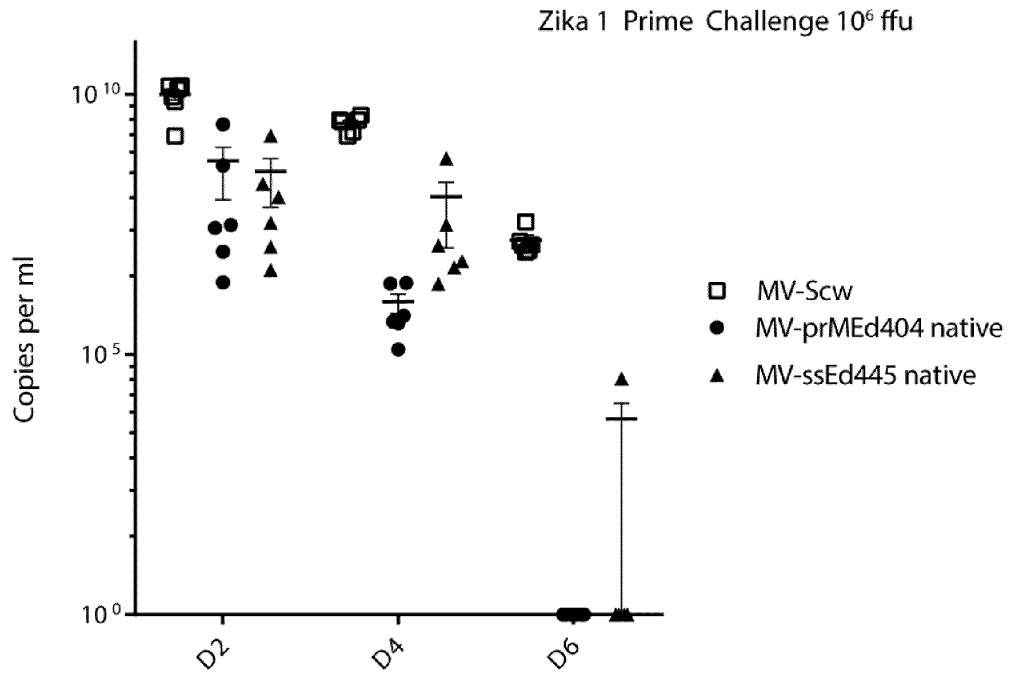


Figure 5C

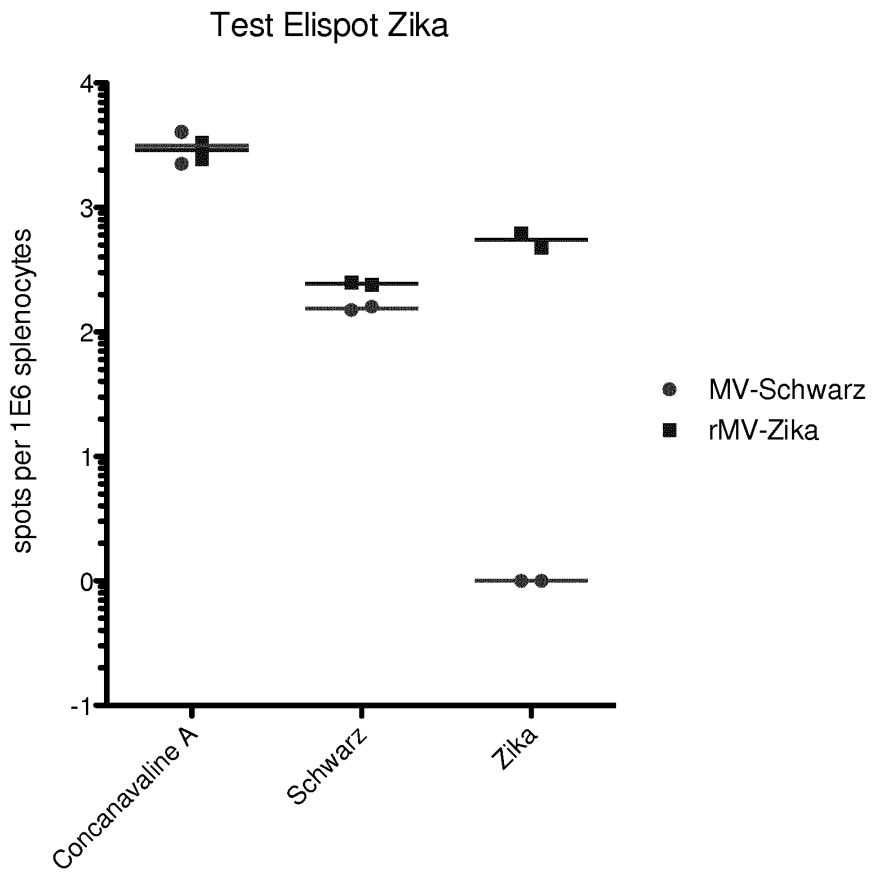
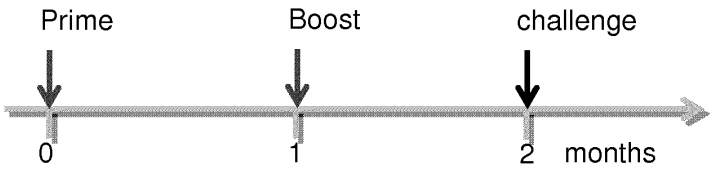

Test Elispot Zika
spots per 1E6 splenocytes
4
3
2
1
0
-1
Concanavaline A
Schwarz
Zika
MV-Schwarz
rMV-Zika

Figure 5D



6 CD46-IFNAR mice per group
Immunization: MV vectors 10^6 $TCID_{50}$/mouse
Challenge: ZIKV African strain 10^3 pfu/mouse

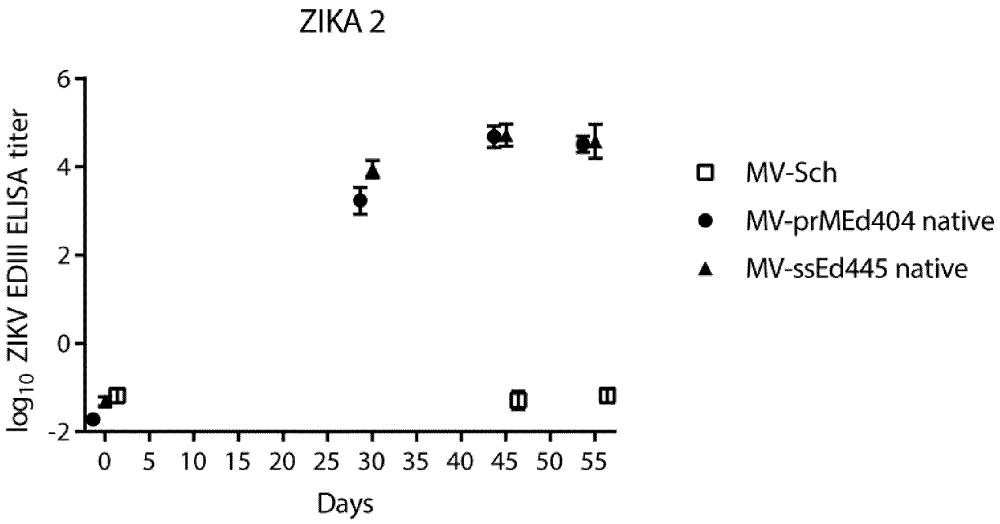
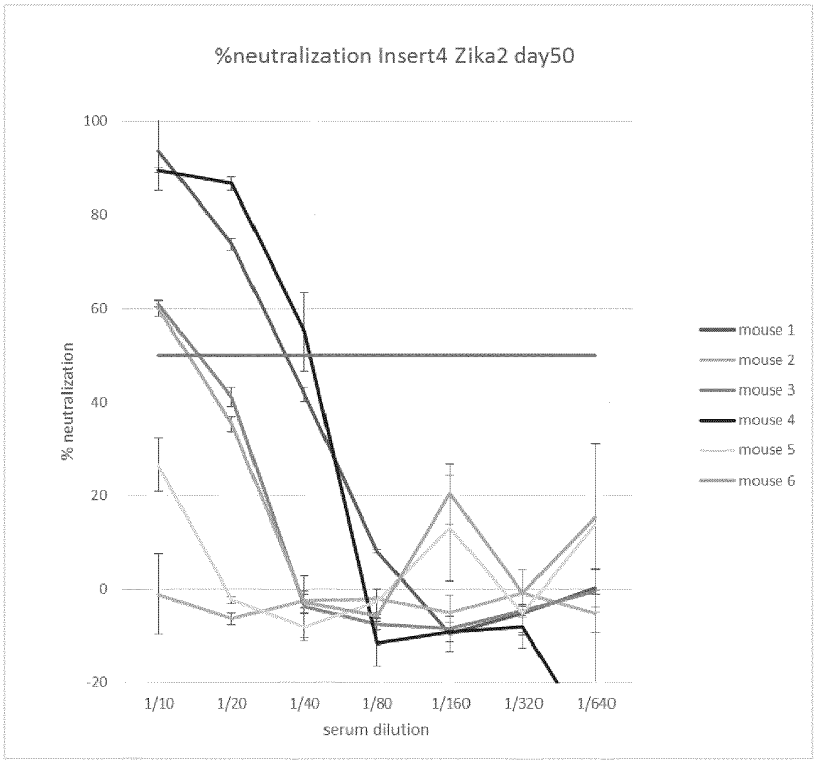


Figure 6A


%neutralization Insert4 Zika2 day50
% neutralization
100
80
60
40
20
0
-20
1/10
1/20
1/40
1/80
1/160
1/320
1/640
serum dilution
mouse 1
mouse 2
mouse 3
mouse 4
mouse 5
mouse 6

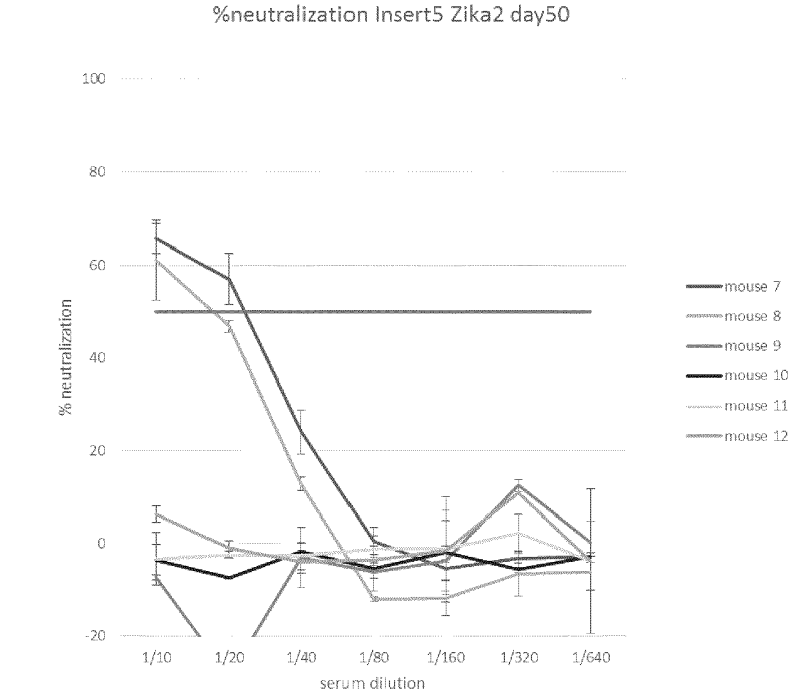

%neutralization Insert5 Zika2 day50
% neutralization
100
80
60
40
20
0
-20
1/10
1/20
1/40
1/80
1/160
1/320
1/640
serum dilution
mouse 7
mouse 8
mouse 9
mouse 10
mouse 11
mouse 12

Figure 6B

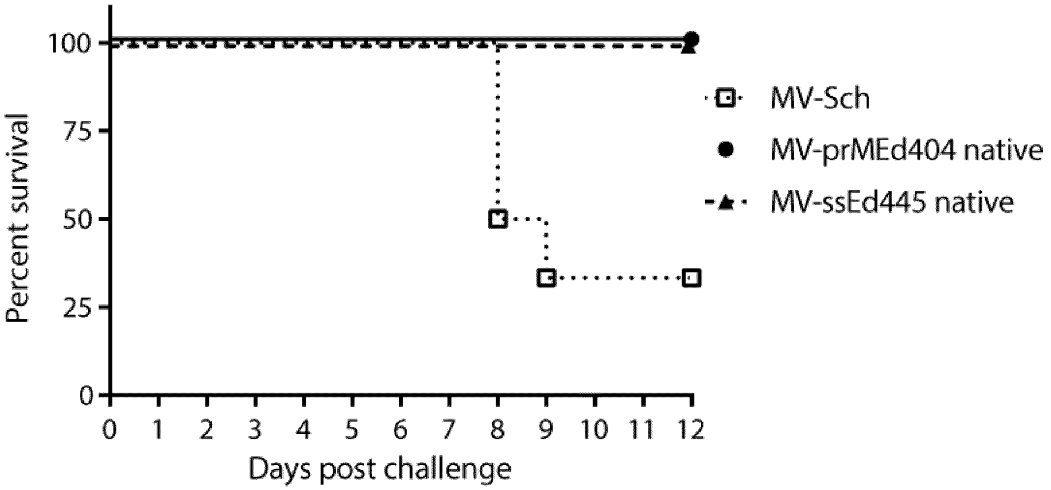


Figure 6C

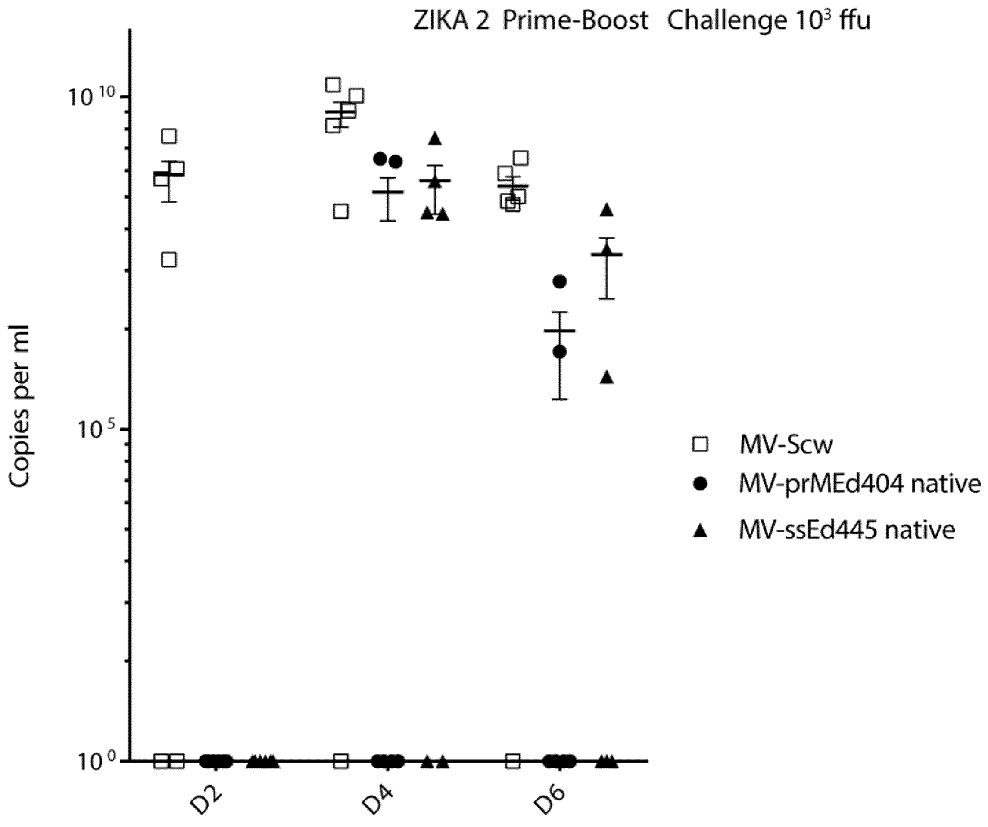


Figure 6D

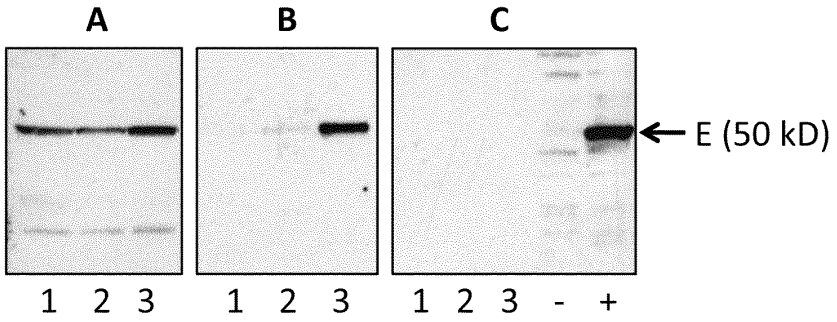


Figure 7

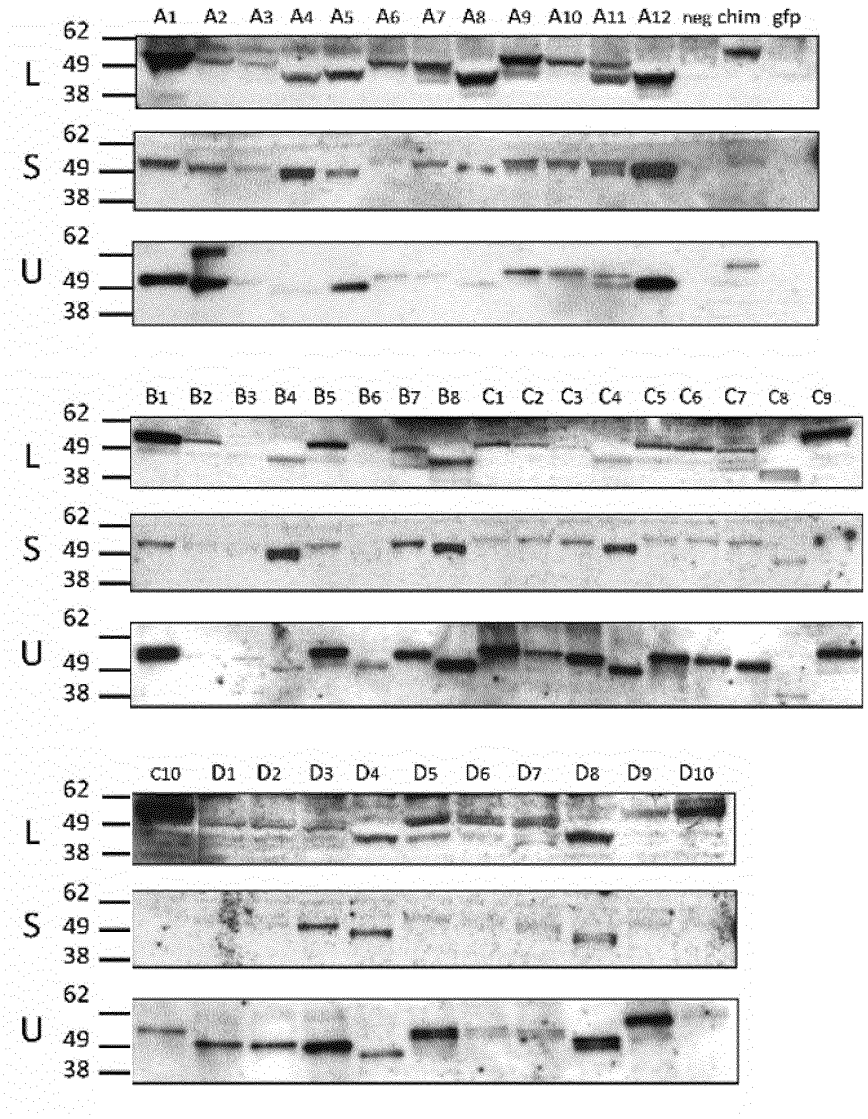

A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 neg chim gfp
L
S
U
62
49
38
B1 B2 B3 B4 B5 B6 B7 B8 C1 C2 C3 C4 C5 C6 C7 C8 C9
C10 D1 D2 D3 D4 D5 D6 D7 D8 D9 D10

Figure 8

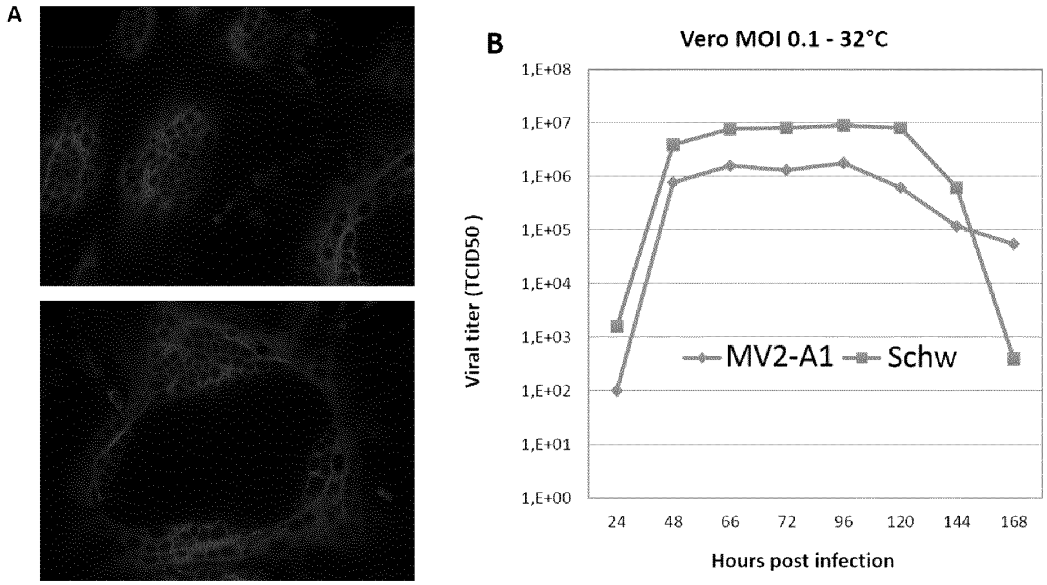


Figure 9

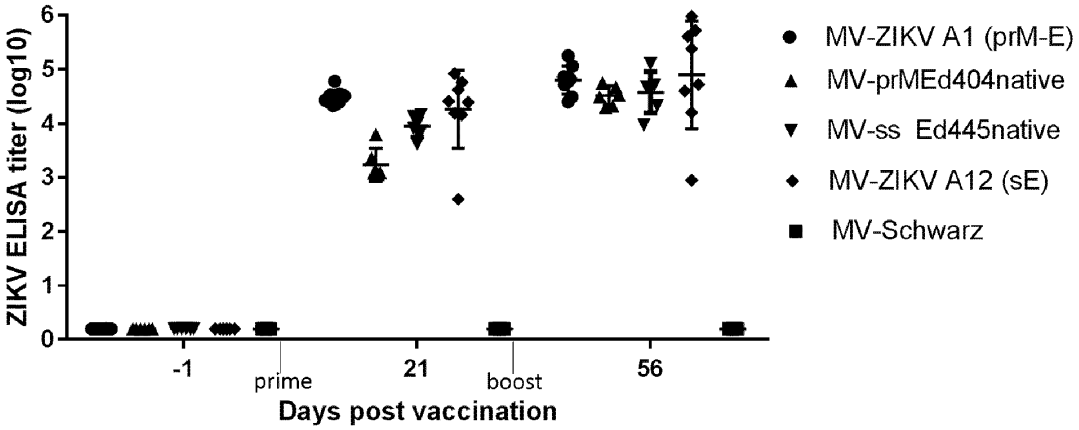


Figure 10

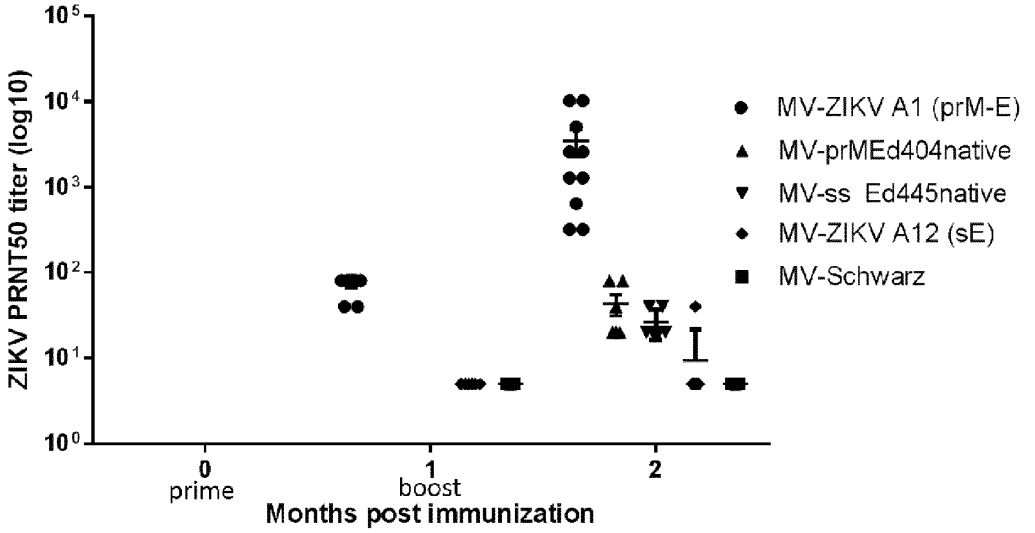


Figure 11

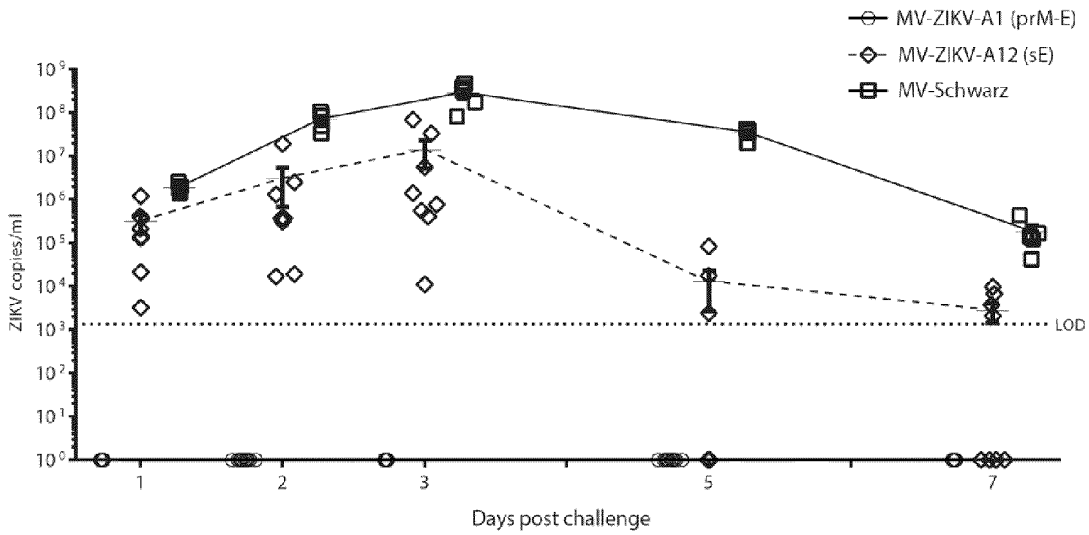


Figure 12

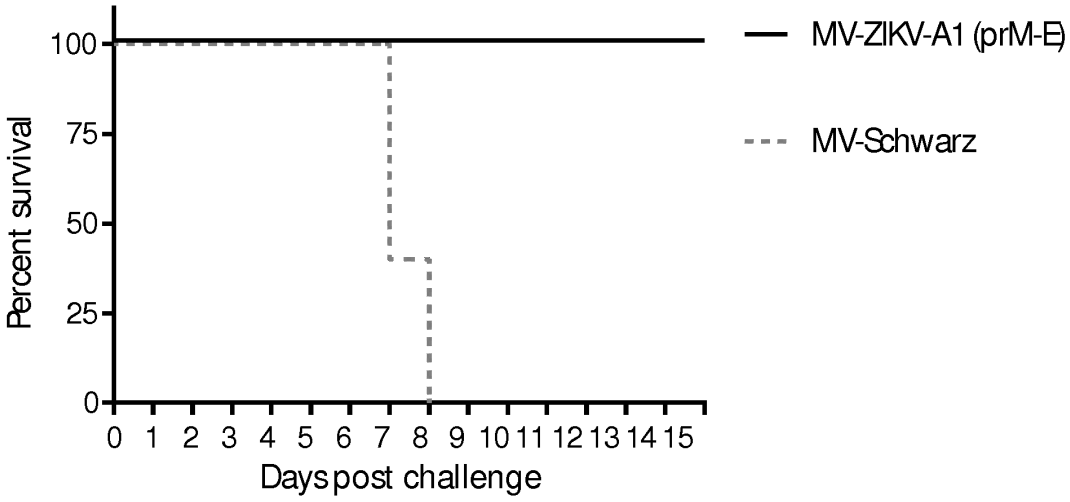

100
75
50
25
0
Percent survival
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Days post challenge
MV-ZIKV-A1 (prM-E)
MV-Schwarz

Figure 13