

Fig.1

Original TNFalpha sequence

RTPSDkpvhvvanpqaegqlqwlrranallangvelrdnqlvvpseglyliysqvlfkqgcp
sthvllthtisriavsyqtkvnllsaikspcqrtpgaeakpwyepiylggvfqlekgrlsaeinrp
dyldfaesgqvfygiial

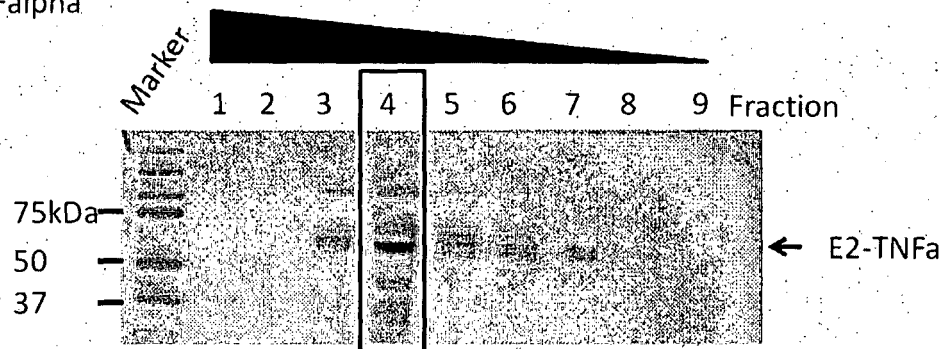
Modified TNFalpha sequence inserted into CHIKV

SGGkpvhvvanpqaegqlqwlrranallangvelrdnqlvvpseglyliysqvlfkqgcpst
hvlthtisriavsyqtkvnllsaikspcqrtpgaeakpwyepiylggvfqlekgrlsaeinrpd
ldfaesgqvfygiialTRGGS

Nucleotide sequence encoding the modified TNF-alpha

Tccggaggtaagcctgtagcccatgtttagcaaaccctcaagctgaggggcagctccagtggctgaaccgc
cgggccaatgccctcctggccaatggcgtggagctgagagataaccagctgggtggcgccatcagagggcctg
tacctcatctactcccaggtcctcttcaaggccaaggctgccctccacccatgtgctcctcaccacaccatc
agccgcatcgccgtctctaccagaccaaggtcaacctcctctgcatcaagagcccctgccagagggaga
cccagagggggctgaggccaagccctggatgagcccatctatctgggaggggtcttcagctggagaagg
gtgaccgactcagcgtgagatcaatcgggccgactatctcgactttgccgagtctgggcaggtctactttggg
atcattgccctgacgcgtggaggatcc

Fig.2

Anti-TNF α 

Anti-Venezuelan equine encephalitis

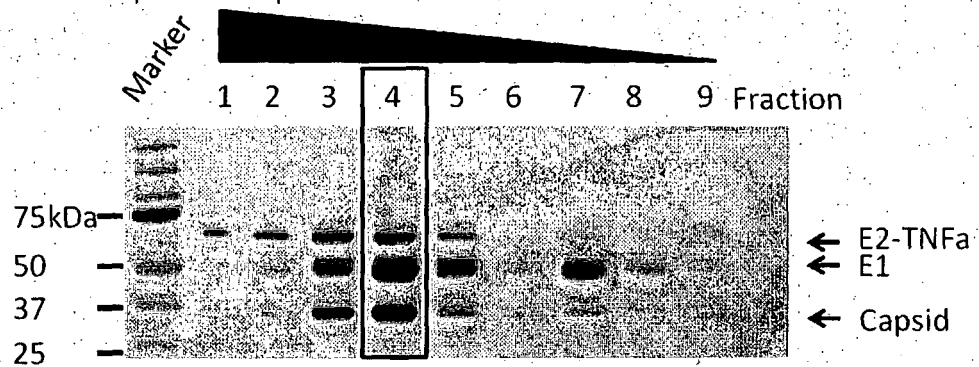


Fig.3

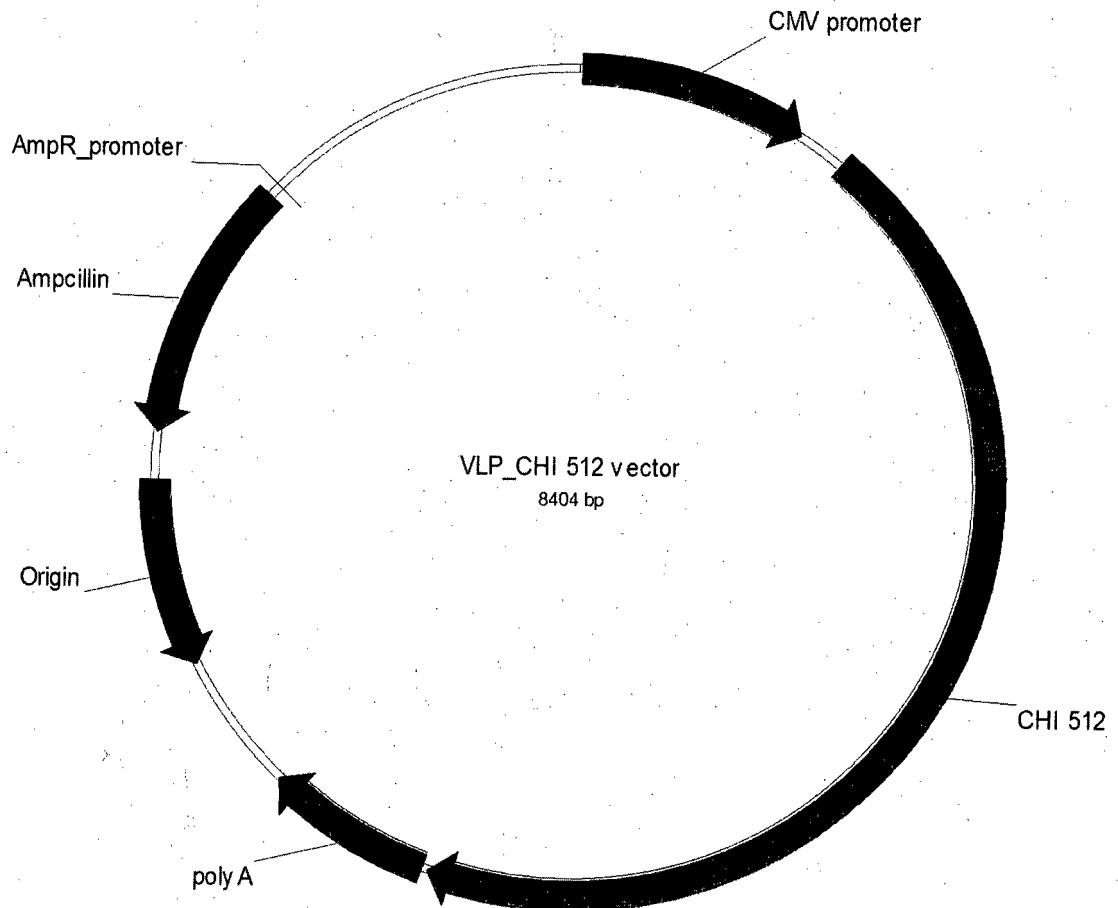


Fig.4

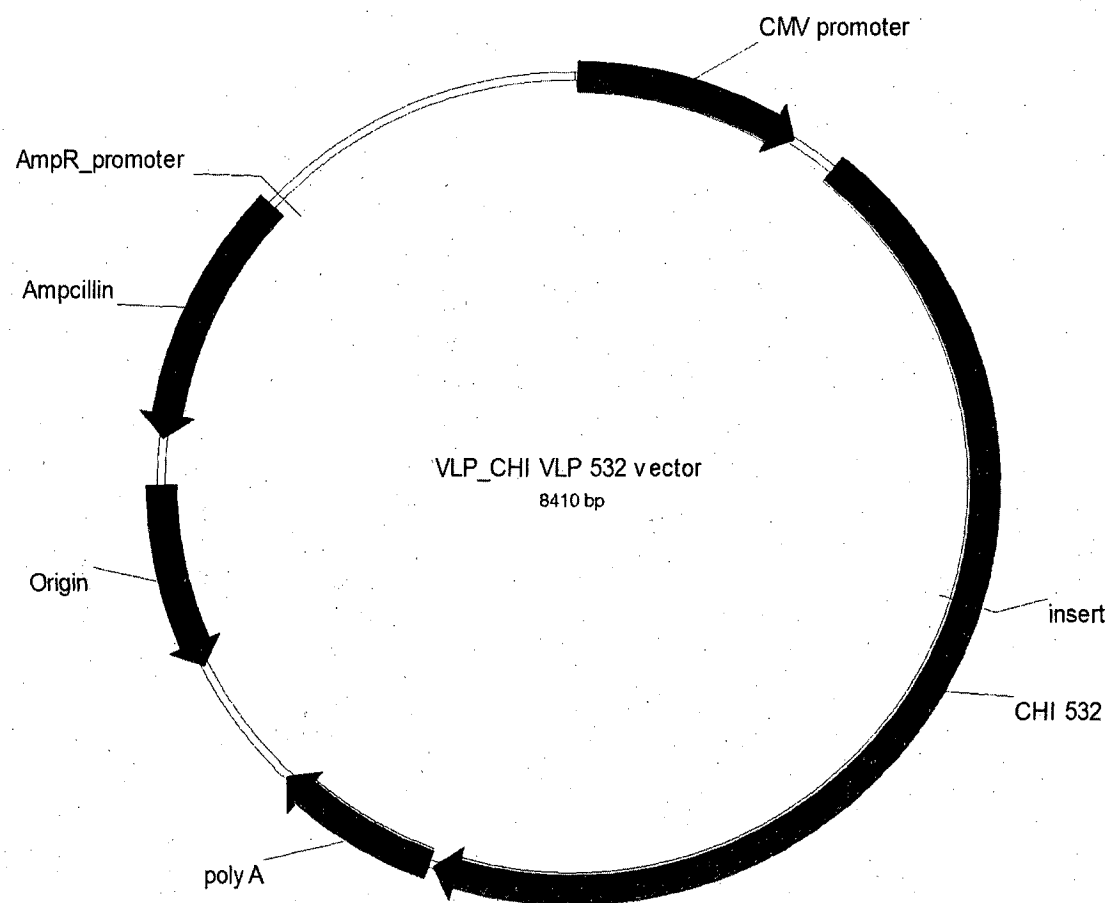


Fig.5

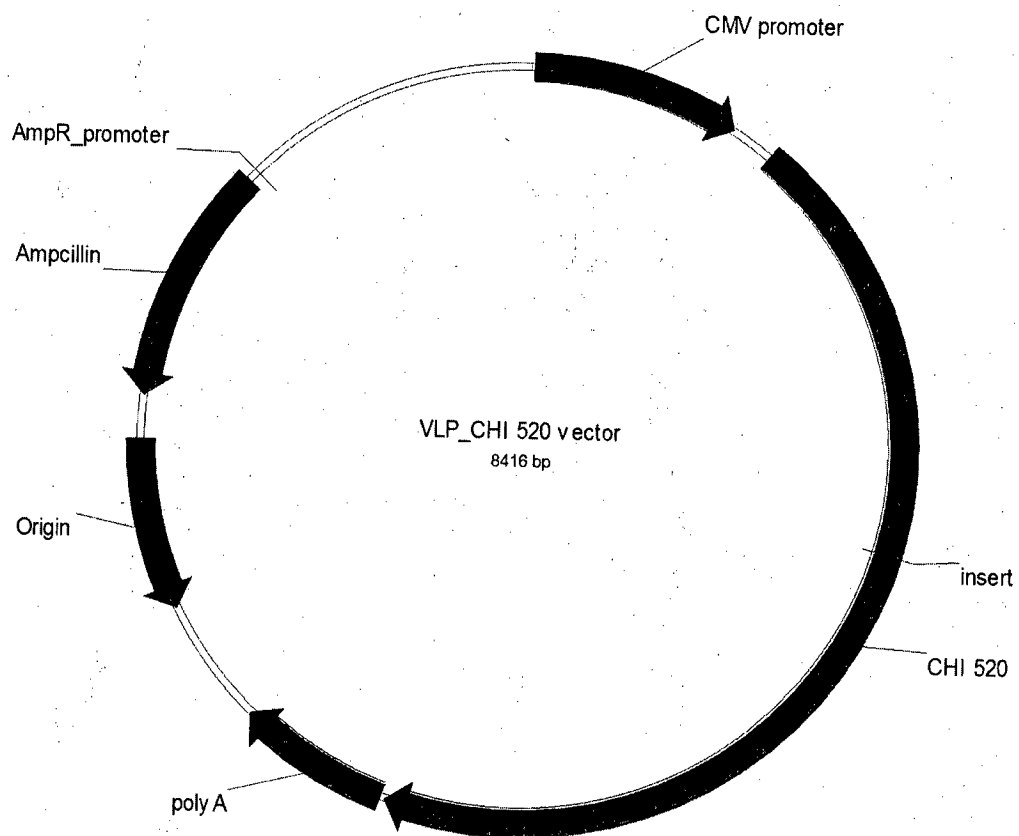


Fig. 6

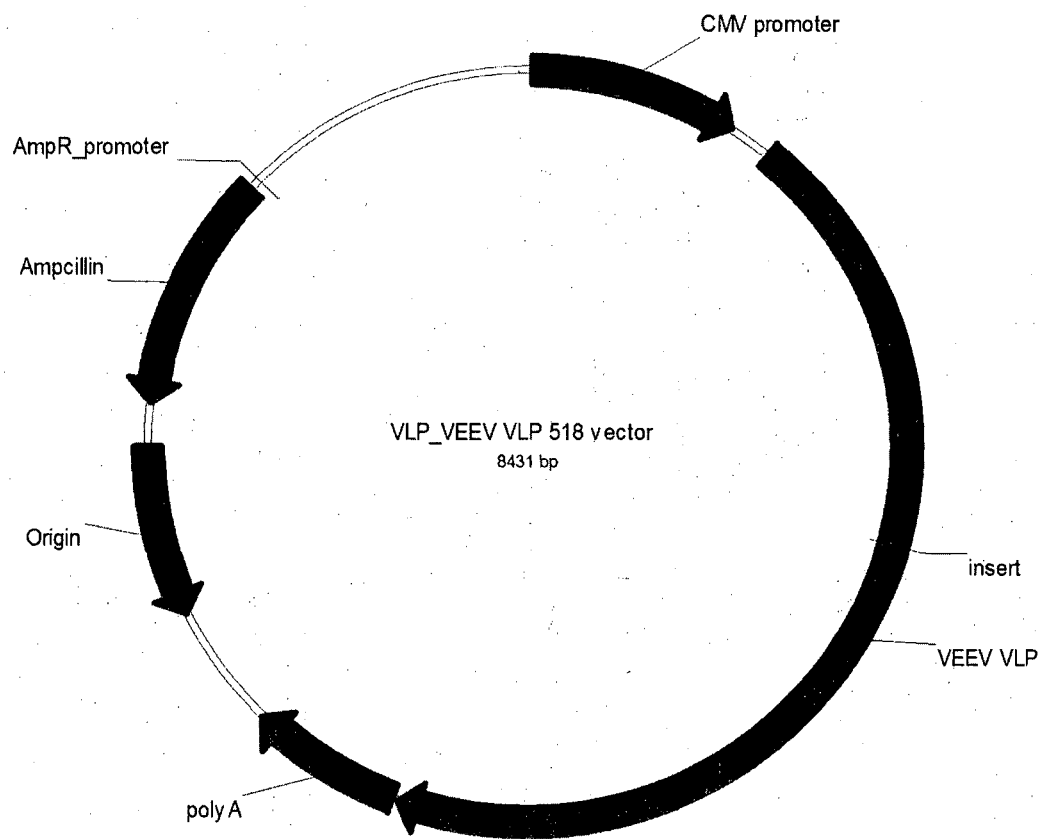


Fig. 7

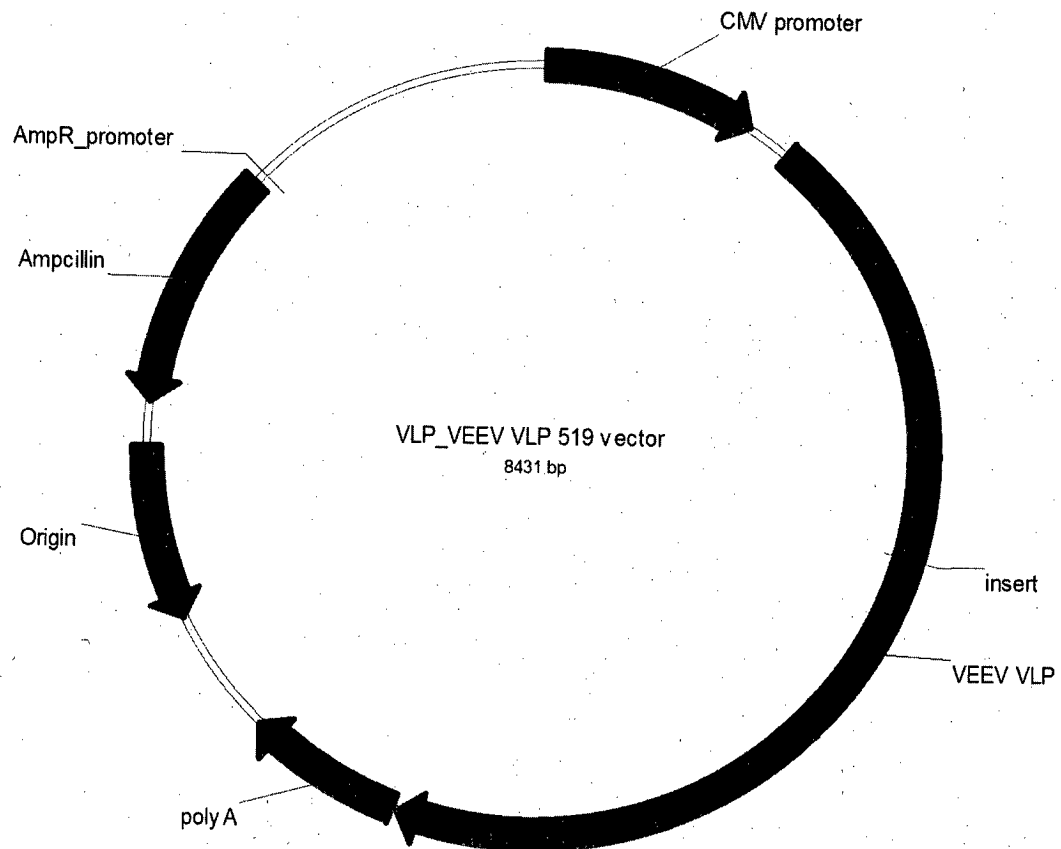
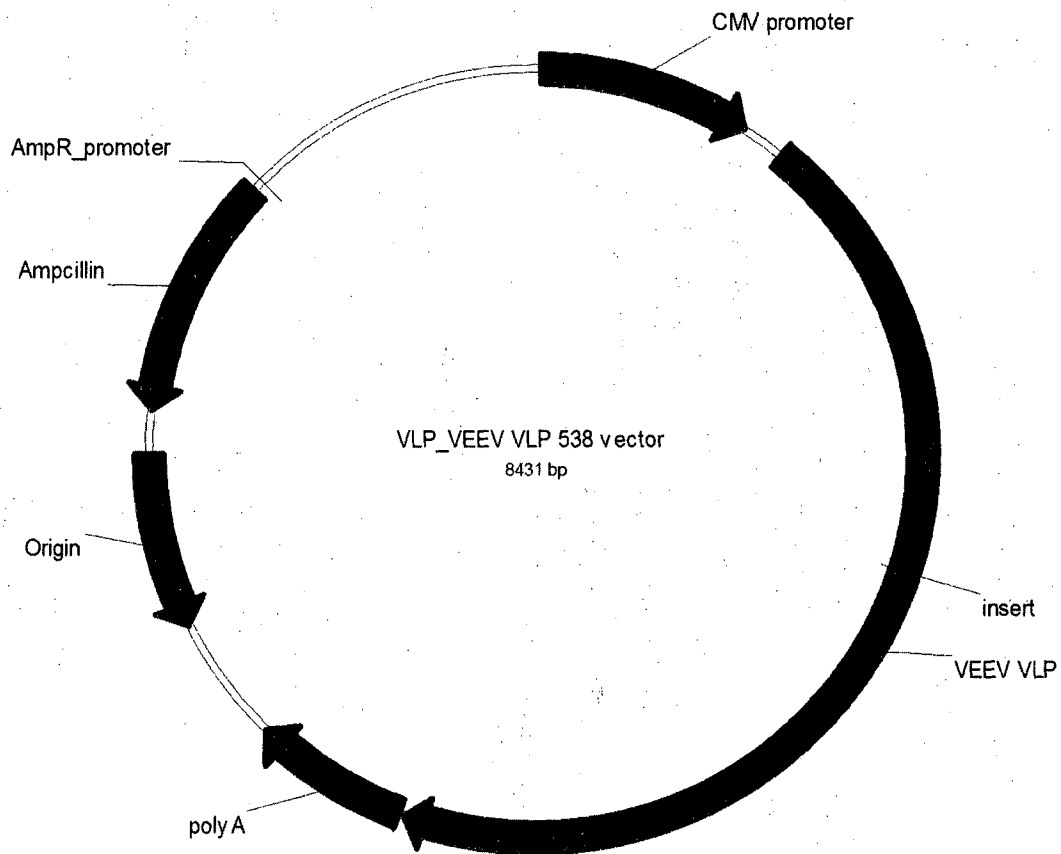
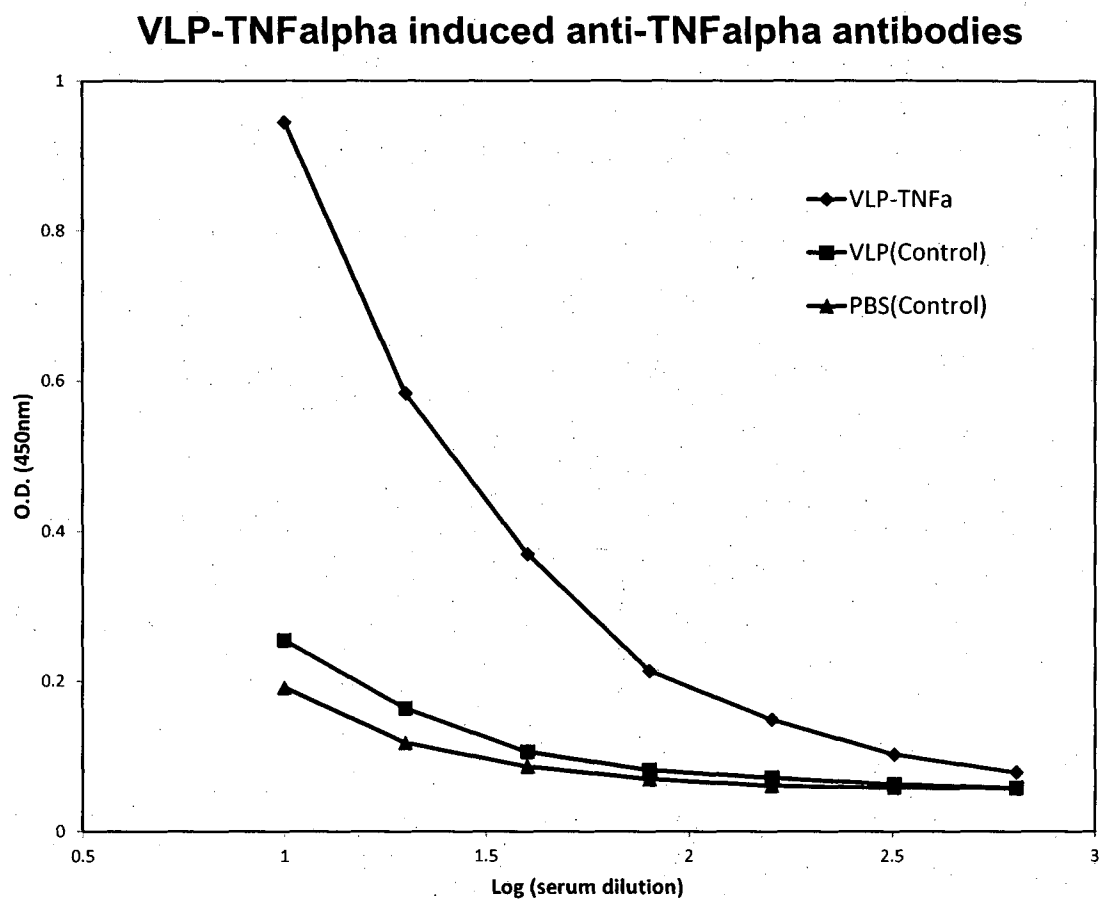


Fig.8



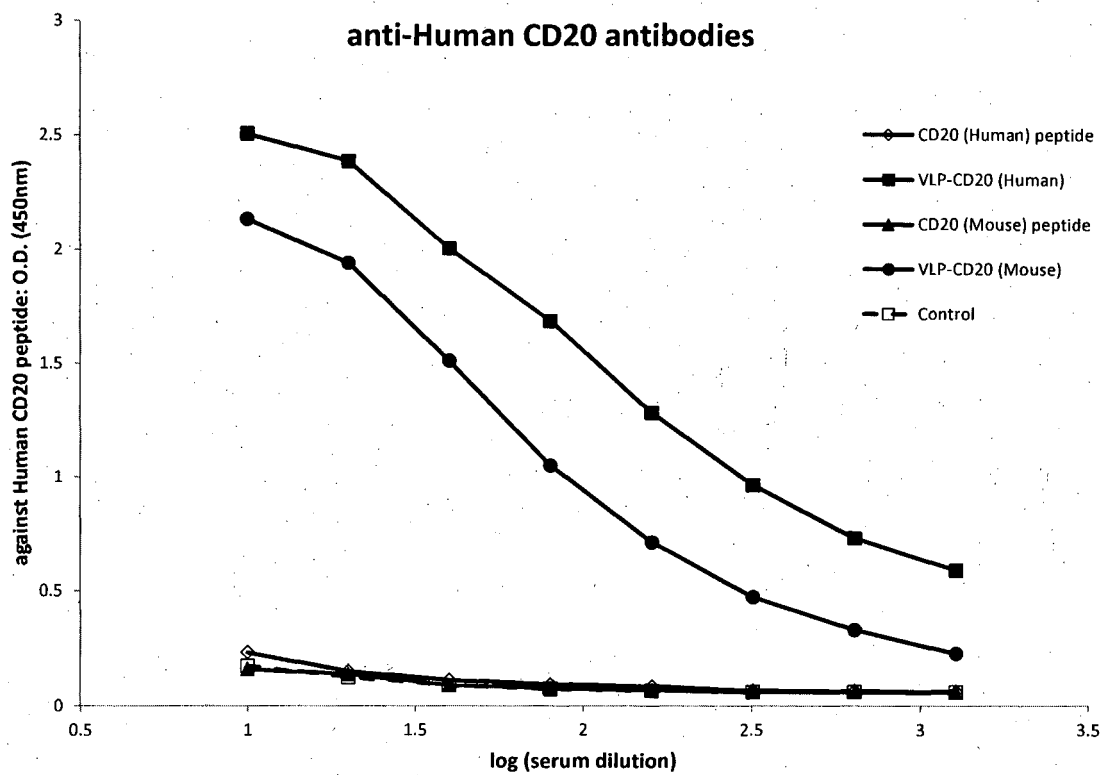
9/11

Fig. 9



10/11

Fig. 10

VLP-CD20 Induced anti-CD20 (Human) antibodies

11/11

Fig.11

