Figure 1

SEQ ID NO:1

MPGGCSRGPAAGDGRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVS
AQPPLPDQCPALCECSEAARTVKCVNRNLTEVPTDLPAYVRNLFLTGNQLAVL
PAGAFARRPPLAELAALNLSGSRLDEVRAGAFEHLPSLRQLDLSHNPLADLSP
FAFSGSNASVSAPSPLVELILNHIVPPEDERQNRSFEGMVVAALLAGRALQGL
RRLELASNHFLYLPRDVLAQLPSLRHLDLSNNSLVSLTYVSFRNLTHLESLHL
EDNALKVLHNGTLAELQGLPHIRVFLDNNPWVCDCHMADMVTWLKETEVVQGK
DRLTCAYPEKMRNRVLLELNSADLDCDPILPPSLQTSYVFLGIVLALIGAIFL
LVLYLNRKGIKKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV

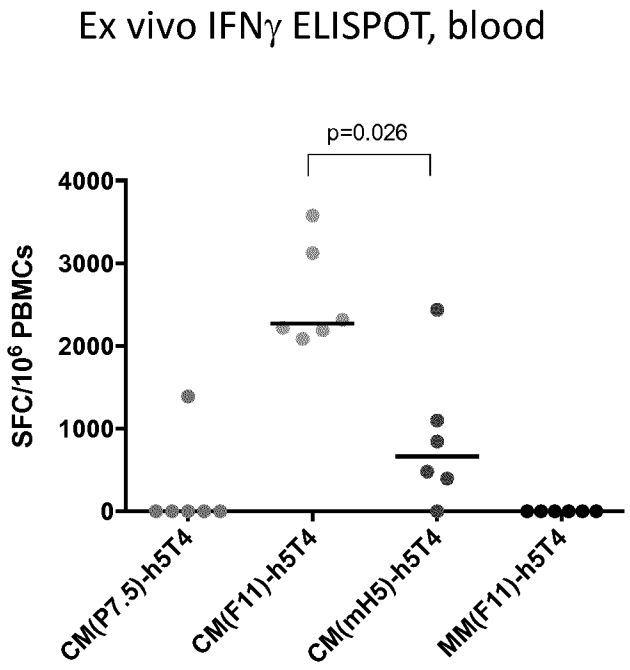
Figure 2

SEQ ID NO:2

ATGCCTGGCGGCTGTAGCAGAGGACCTGCTGCTGGCGACGGTAGACTGAGACT
GGCTAGACTGGCACTGGTGCTGCTTGGCTGGGTGTCCTCTAGCAGCCCTACAA
GCAGCGCCAGCTCCTTTAGCAGCAGCGCCCCTTTTCTGGCCTCTGCCGTTTCT
GCTCAACCTCCTCTGCCTGATCAGTGCCCTGCTCTGTGCGAGTGTTCTGAGGC
CGCCAGAACAGTGAAGTGCGTGAACAGAAACCTGACCGAGGTGCCCACAGACC
TGCCTGCCTACGTGCGGAATCTGTTCCTGACCGGAAATCAGCTGGCCGTGCTT
CCTGCTGGCGCCTTTGCTAGAAGGCCTCCACTGGCTGAACTGGCCGCTCTGAA
TCTGAGCGGCAGCAGACTGGATGAAGTTCGCGCTGGCGCTTTCGAGCATCTGC
CTTCTCTGAGACAGCTGGACCTGAGCCACAATCCTCTGGCCGATCTGAGCCCC
TTTGCCTTCAGCGGAAGCAACGCCTCTGTGTCTGCTCCATCTCCACTGGTCGA
GCTGATCCTGAACCACATCGTGCCTCCAGAGGACGAGCGGCAGAACAGATCCT
TTGAAGGCATGGTGGTGGCTGCCCTGCTTGCTGGTAGAGCACTGCAAGGACTG
CGGAGACTGGAACTGGCCAGCAACCACTTCCTGTACCTGCCTAGAGATGTGCT
GGCCCAGCTGCCTAGCCTGAGGCATCTGGATCTGTCCAACAACAGCCTGGTGT
CCCTGACCTACGTGTCCTTCCGGAATCTGACCCACCTGGAAAGCCTGCACCTG
GAAGATAACGCCCTGAAGGTGCTGCACAATGGCACCCTGGCAGAACTGCAGGG
CCTGCCTCACATCAGAGTGTTTCTGGACAACAACCCCTGGGTCTGCGACTGCC
ACATGGCCGATATGGTCACCTGGCTGAAAGAAACCGAGGTGGTGCAGGGCAAA
GACCGGCTGACATGTGCTTACCCCGAGAAGATGCGGAACCGGGTGCTGCTGGA
ACTGAACAGCGCCGACCTGGACTGCGATCCTATTCTGCCACCTAGCCTGCAGA
CCAGCTACGTGTTCCTGGGAATCGTGCTGGCTCTGATCGGCGCCATCTTTCTG
CTGGTGCTGTACCTGAACCGGAAGGGCATCAAGAAATGGATGCACAACATCCG
GGACGCCTGCCGGGATCACATGGAAGGCTACCACTACAGATACGAGATCAACG
CCGATCCTCGGCTGACCAACCTGAGCAGCAATAGCGACGTGTGATGA

Figure 3

A


Ex vivo IFNγ ELISPOT, blood
p=0.026
SFC/10^6 PBMCs
4000
3000
2000
1000
0
CM(P7.5)-h5T4
CM(F11)-h5T4
CM(mH5)-h5T4
MM(F11)-h5T4

B

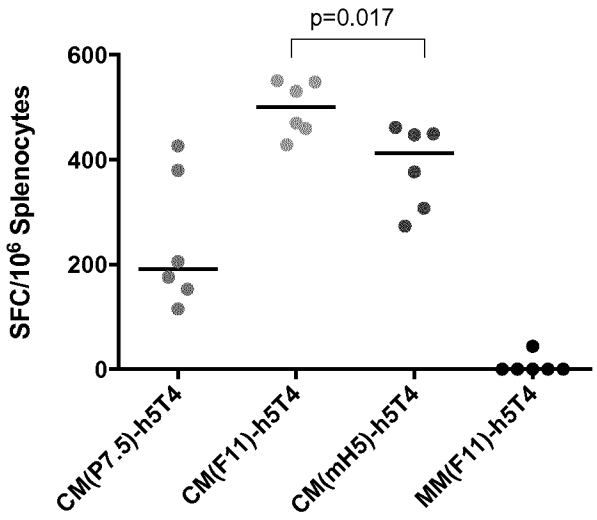
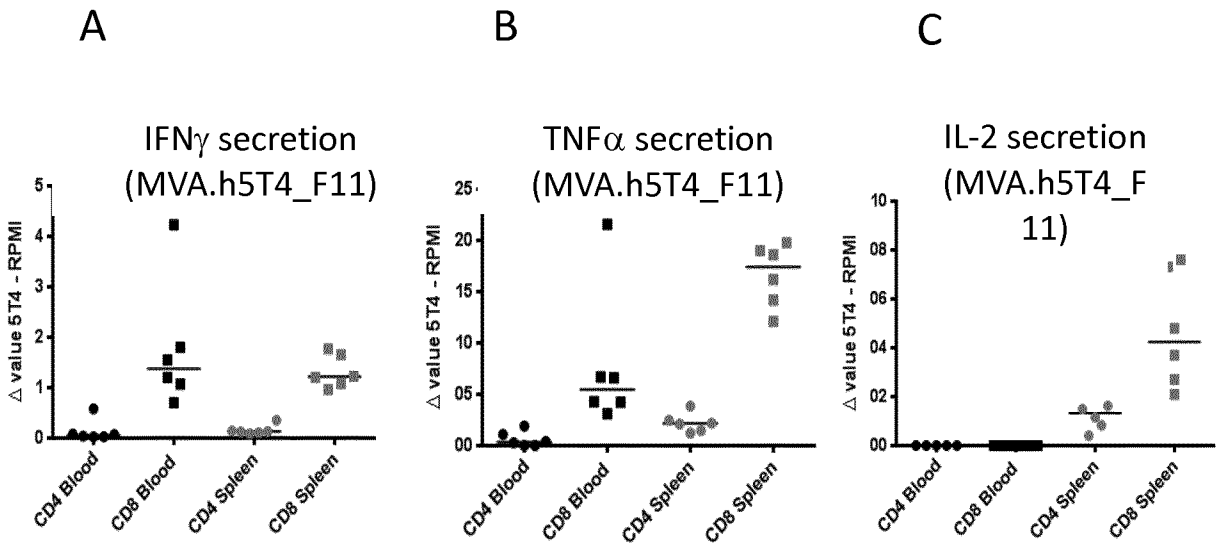

Ex vivo IFNγ ELISPOT, spleen
p=0.017
SFC/10^6 Splenocytes
600
400
200
0
CM(P7.5)-h5T4
CM(F11)-h5T4
CM(mH5)-h5T4
MM(F11)-h5T4

Figure 4


A
IFNγ secretion
(MVA.h5T4_F11)
Δ value 5T4 - RPMI
CD4 Blood
CD8 Blood
CD4 Spleen
CD8 Spleen
B
TNFα secretion
(MVA.h5T4_F11)
Δ value 5T4 - RPMI
CD4 Blood
CD8 Blood
CD4 Spleen
CD8 Spleen
C
IL-2 secretion
(MVA.h5T4_F
11)
Δ value 5T4 - RPMI
CD4 Blood
CD8 Blood
CD4 Spleen
CD8 Spleen