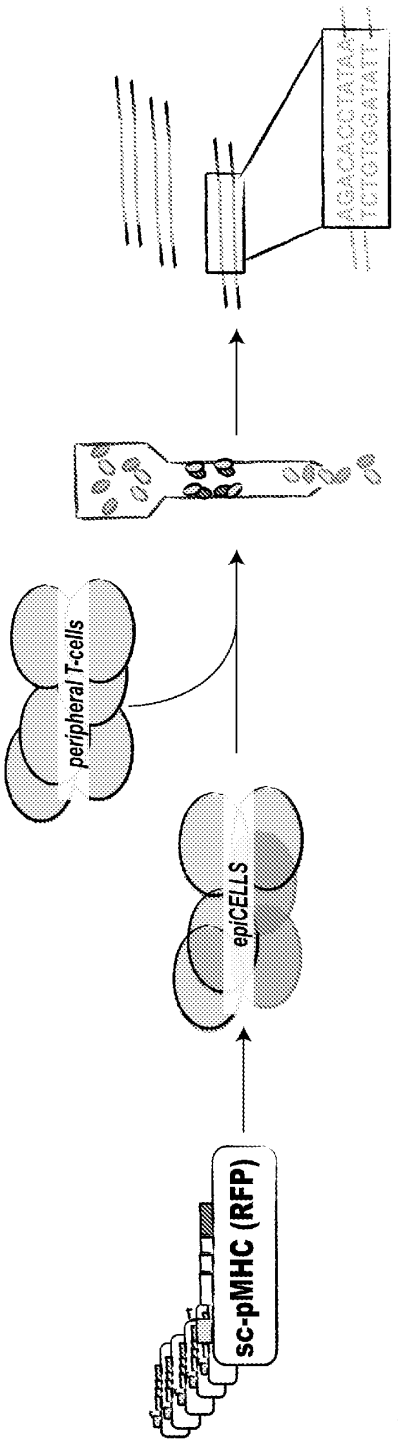

AGACACTATAA
TCTCTGGATATT
peripheral T-cells
epiCELLS
sc-pMHC (RFP)

Fig. 1

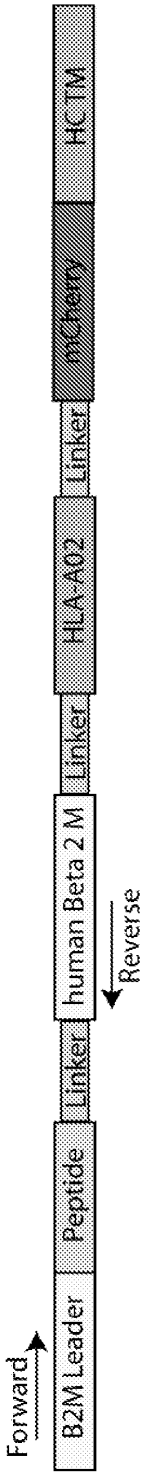

Forward
B2M Leader
Peptide
Linker
human Beta 2 M
Linker
HLA-A02
Linker
mCherry
HCTM
Reverse

Fig. 2

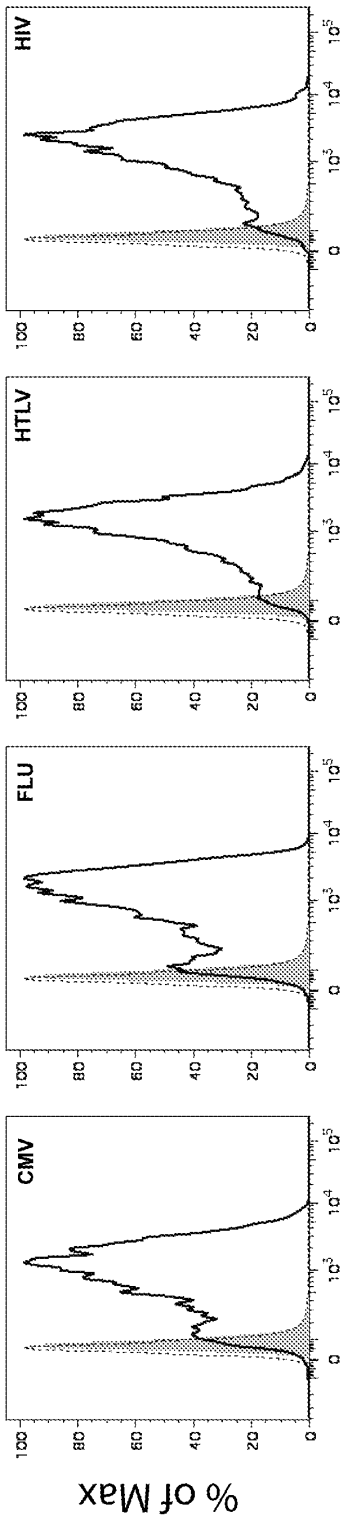


Fig. 3

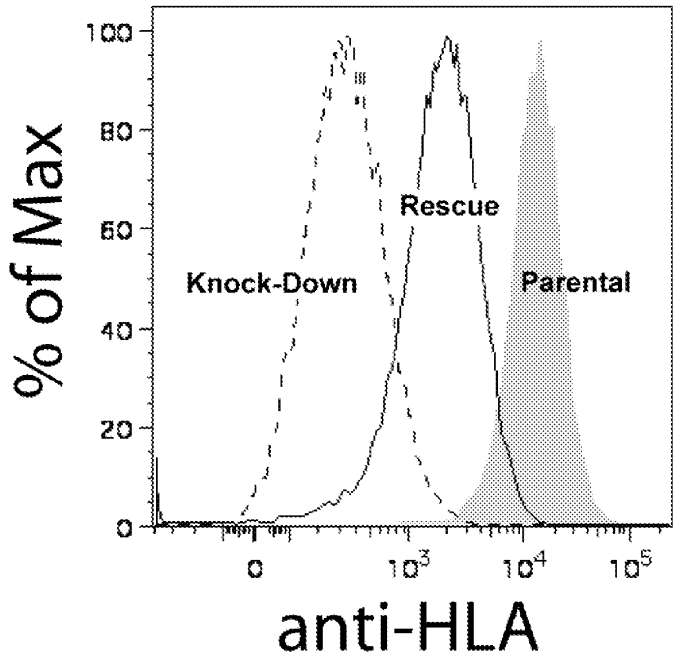

% of Max
100
80
60
40
20
0
Knock-Down
Rescue
Parental
0
10^3
10^4
10^5
anti-HLA

Fig. 4

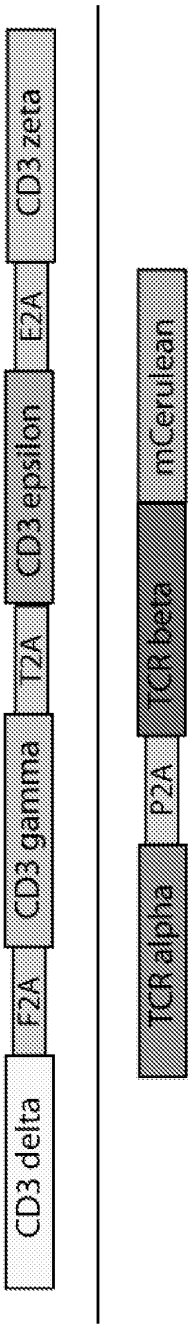

CD3 delta
F2A
CD3 gamma
T2A
CD3 epsilon
E2A
CD3 zeta
TCR alpha
P2A
TCR beta
mCerulean

Fig. 5

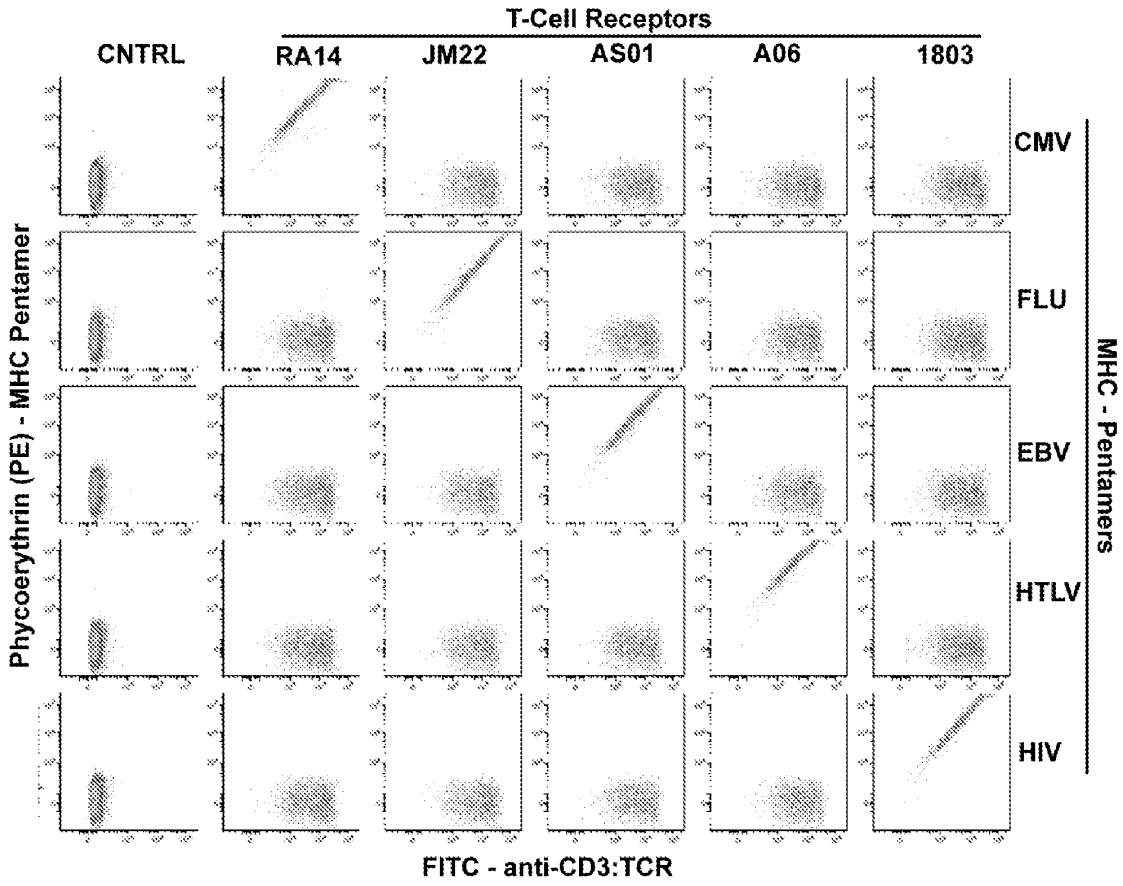

T-Cell Receptors
CNTRL
RA14
JM22
AS01
A06
1803
CMV
FLU
EBV
HTLV
HIV
MHC - Pentamers
Phycoerythrin (PE) - MHC Pentamer
FITC - anti-CD3:TCR

Fig. 6

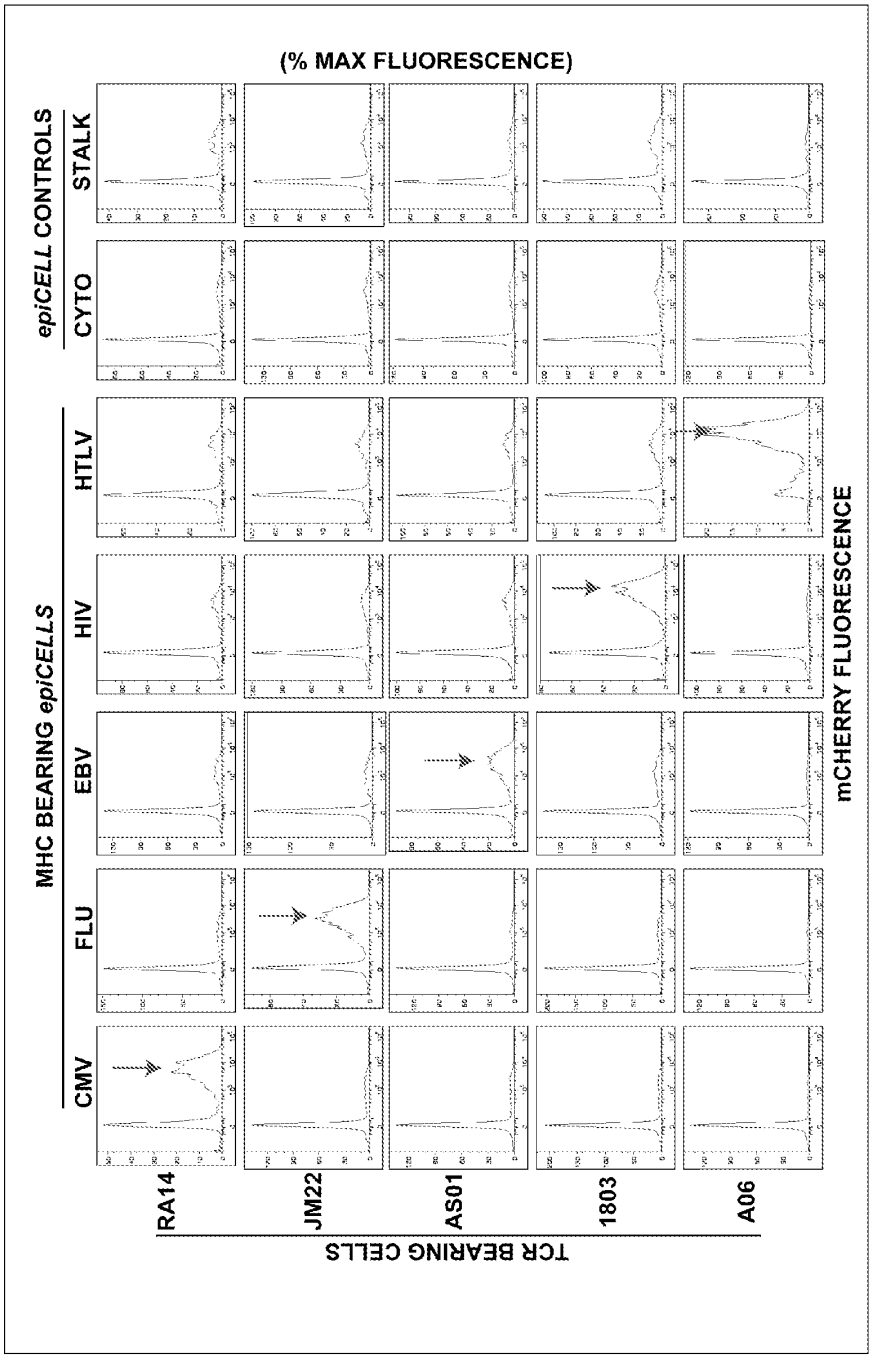

(% MAX FLUORESCENCE)
epiCELL CONTROLS
STALK
CYTO
MHC BEARING epiCELLS
HTLV
HIV
EBV
FLU
CMV
RA14
JM22
AS01
1803
A06
TCR BEARING CELLS
mCHERRY FLUORESCENCE

Fig. 7

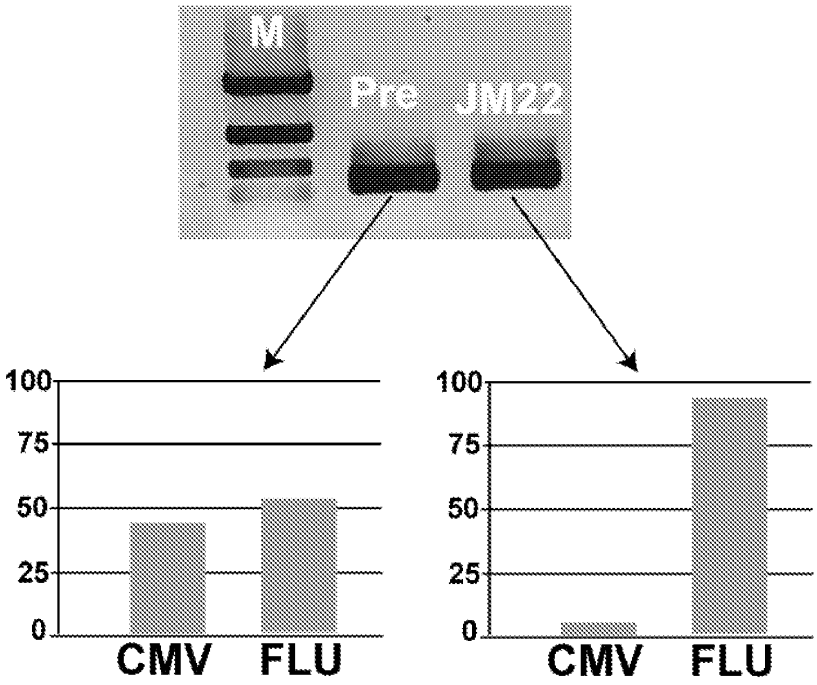


Fig. 8

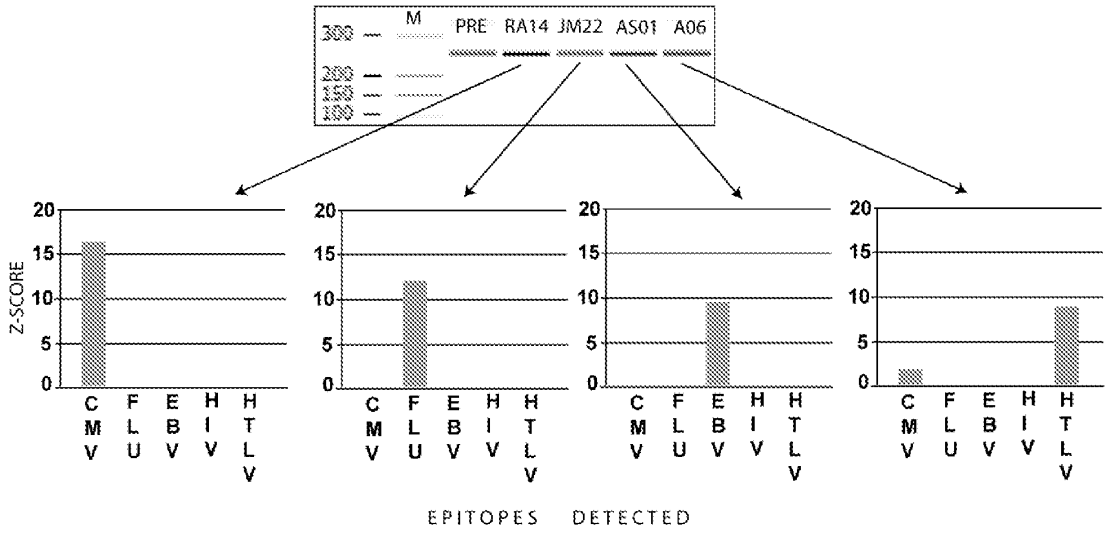

M
PRE
RA14
JM22
AS01
A06
300
200
150
100
Z-SCORE
20
15
10
5
0
CMV
FLU
EBV
HIV
HTLV
EPITOPES DETECTED

Fig. 9

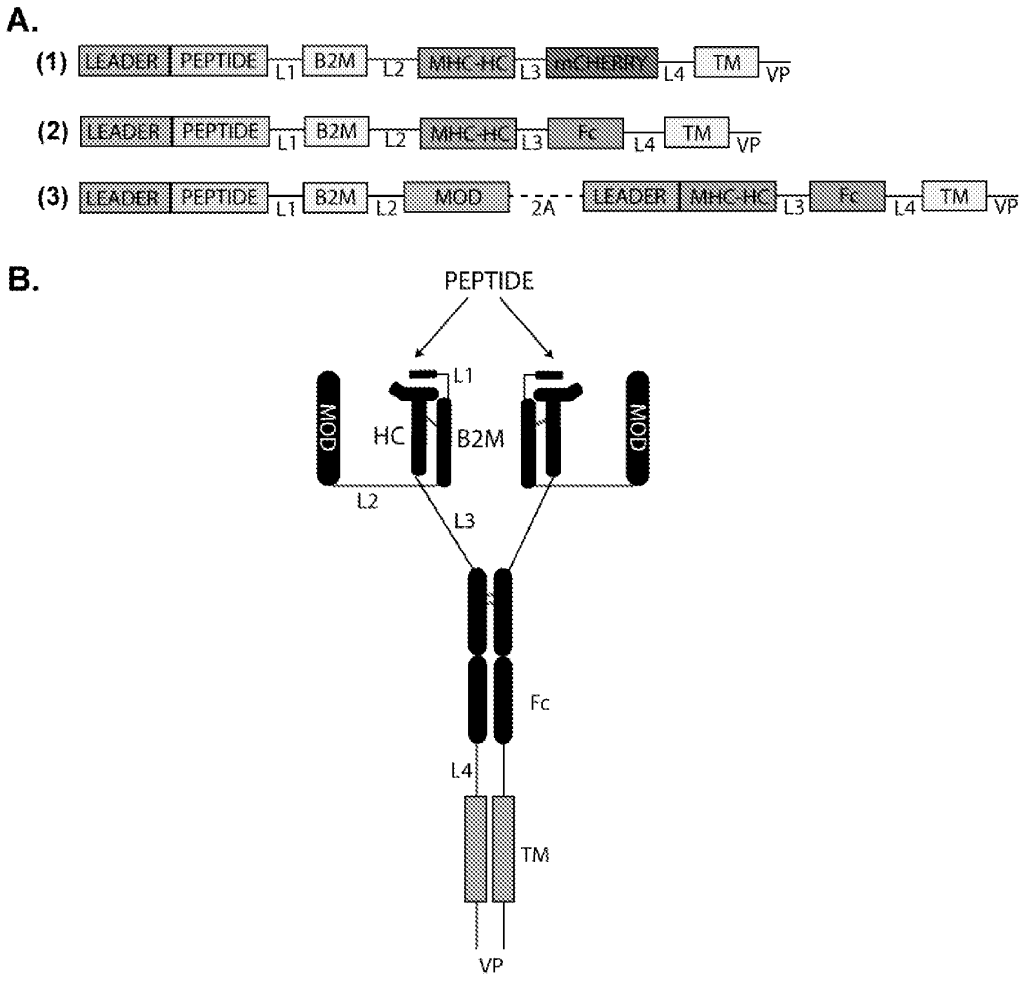

A.
(1)
LEADER
PEPTIDE
L1
B2M
L2
MHC HC
L3
MHC HC PPV
L4
TM
VP
(2)
LEADER
PEPTIDE
L1
B2M
L2
MHC HC
L3
Fc
L4
TM
VP
(3)
LEADER
PEPTIDE
L1
B2M
L2
MOD
2A
LEADER
MHC HC
L3
Fc
L4
TM
VP
B.
PEPTIDE
L1
MOD
HC
B2M
MOD
L2
L3
Fc
L4
TM
VP

Fig. 10A-10B

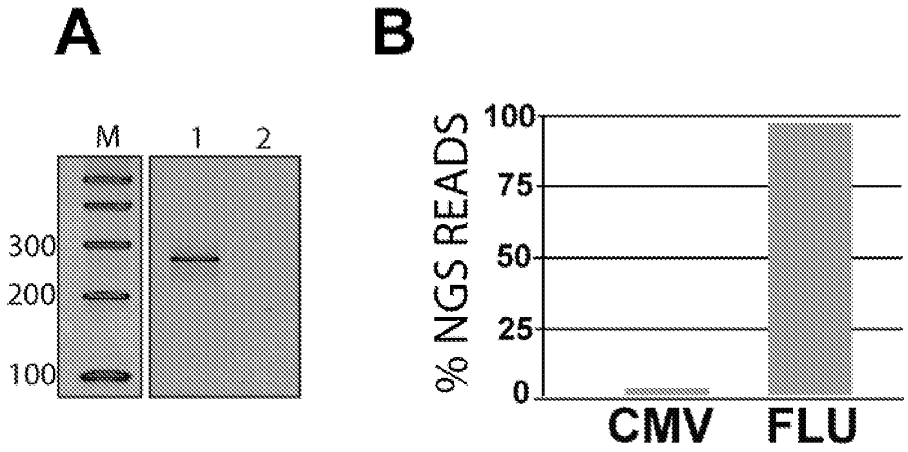


Fig. 11A-11B

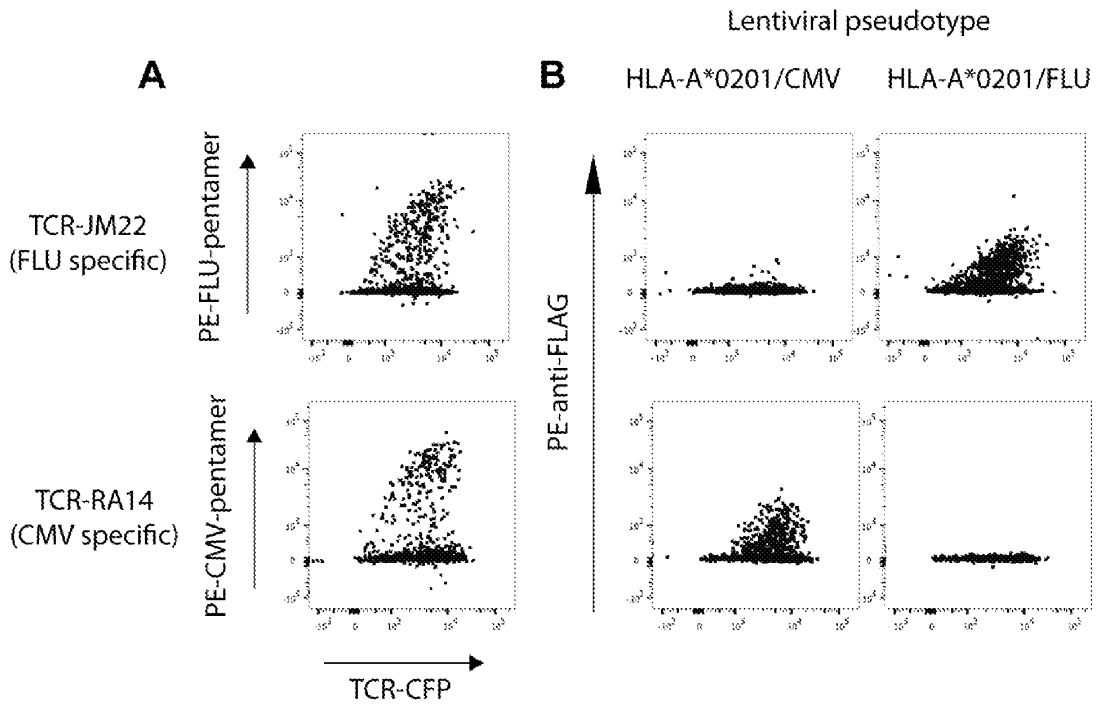

A
B
Lentiviral pseudotype
HLA-A*0201/CMV
HLA-A*0201/FLU
TCR-JM22
(FLU specific)
PE-FLU-pentamer
TCR-RA14
(CMV specific)
PE-CMV-pentamer
PE-anti-FLAG
TCR-CFP

Fig. 12A-12B