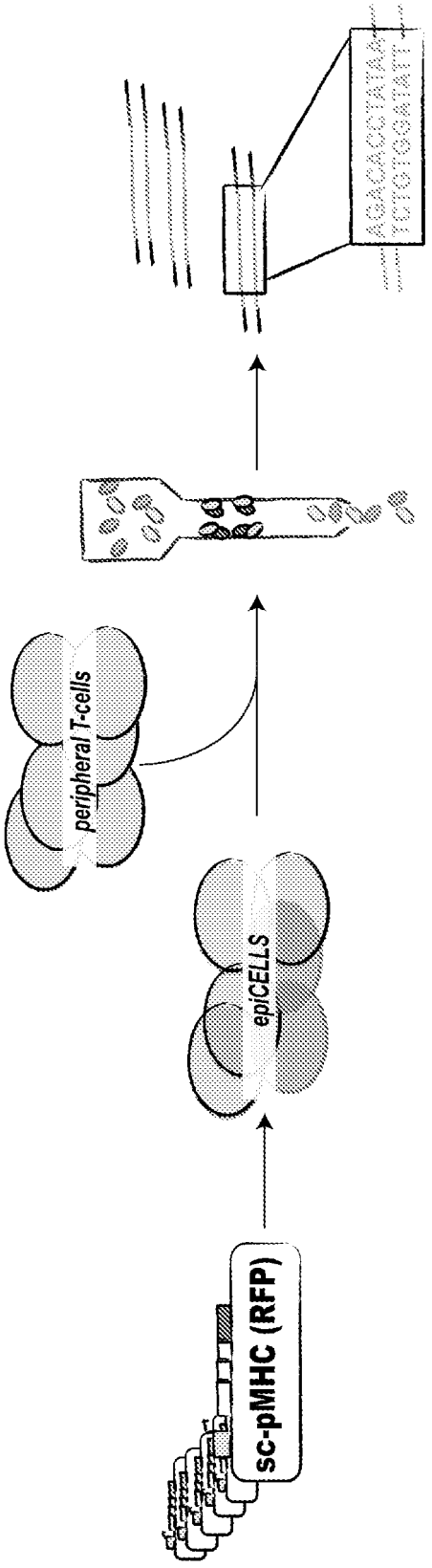


Fig. 1

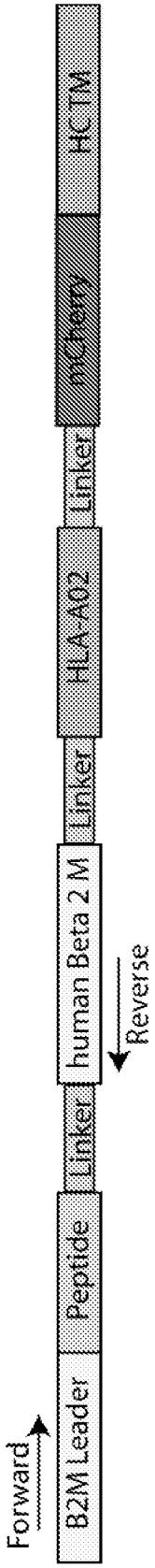

Forward
B2M Leader
Peptide
Linker
human Beta 2 M
Reverse
Linker
HLA-A02
Linker
mCherry
HC TM

Fig. 2

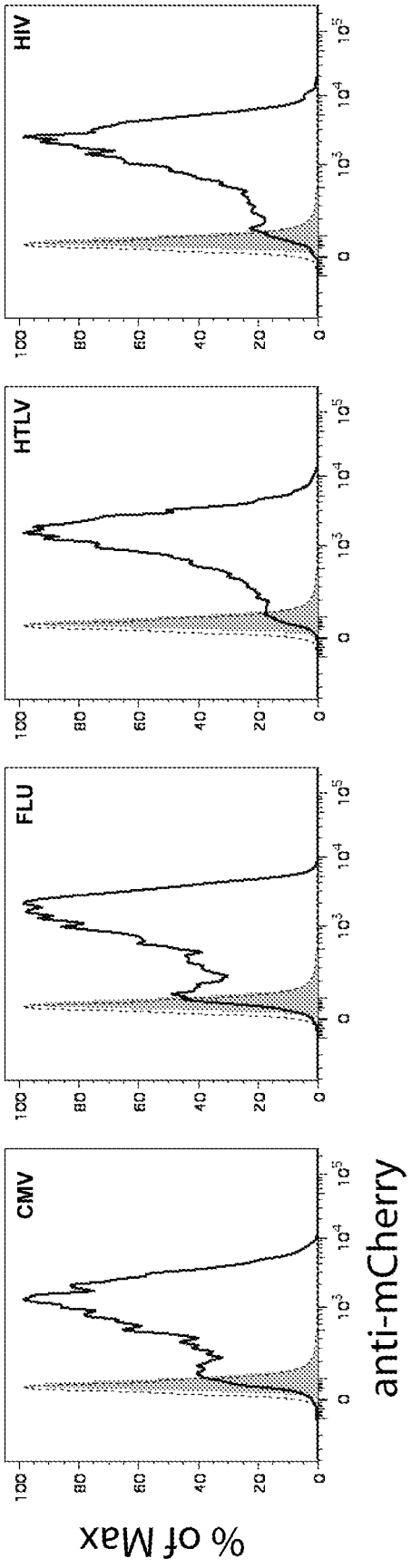


Fig. 3

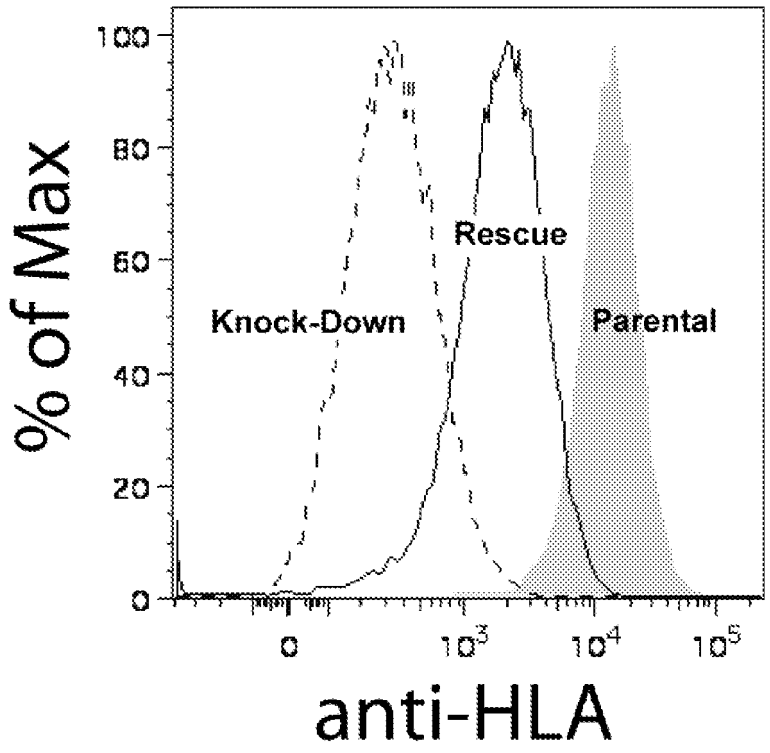

% of Max
100
80
60
40
20
0
Knock-Down
Rescue
Parental
0
10^3
10^4
10^5
anti-HLA

Fig. 4

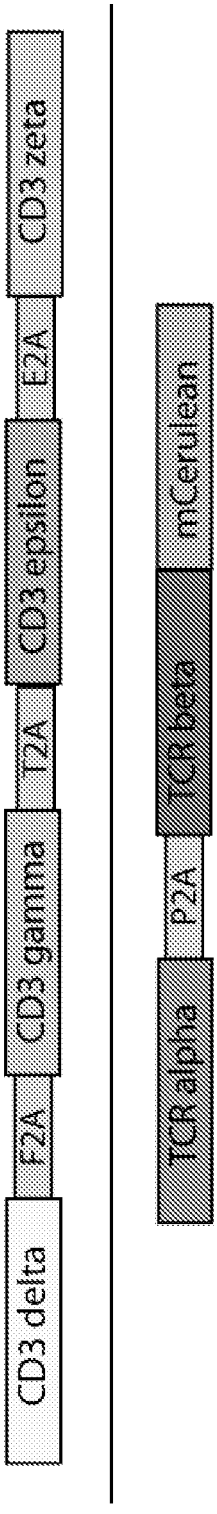

CD3 delta
F2A
CD3 gamma
T2A
CD3 epsilon
E2A
CD3 zeta
TCR alpha
P2A
TCR beta
mCerulean

Fig. 5

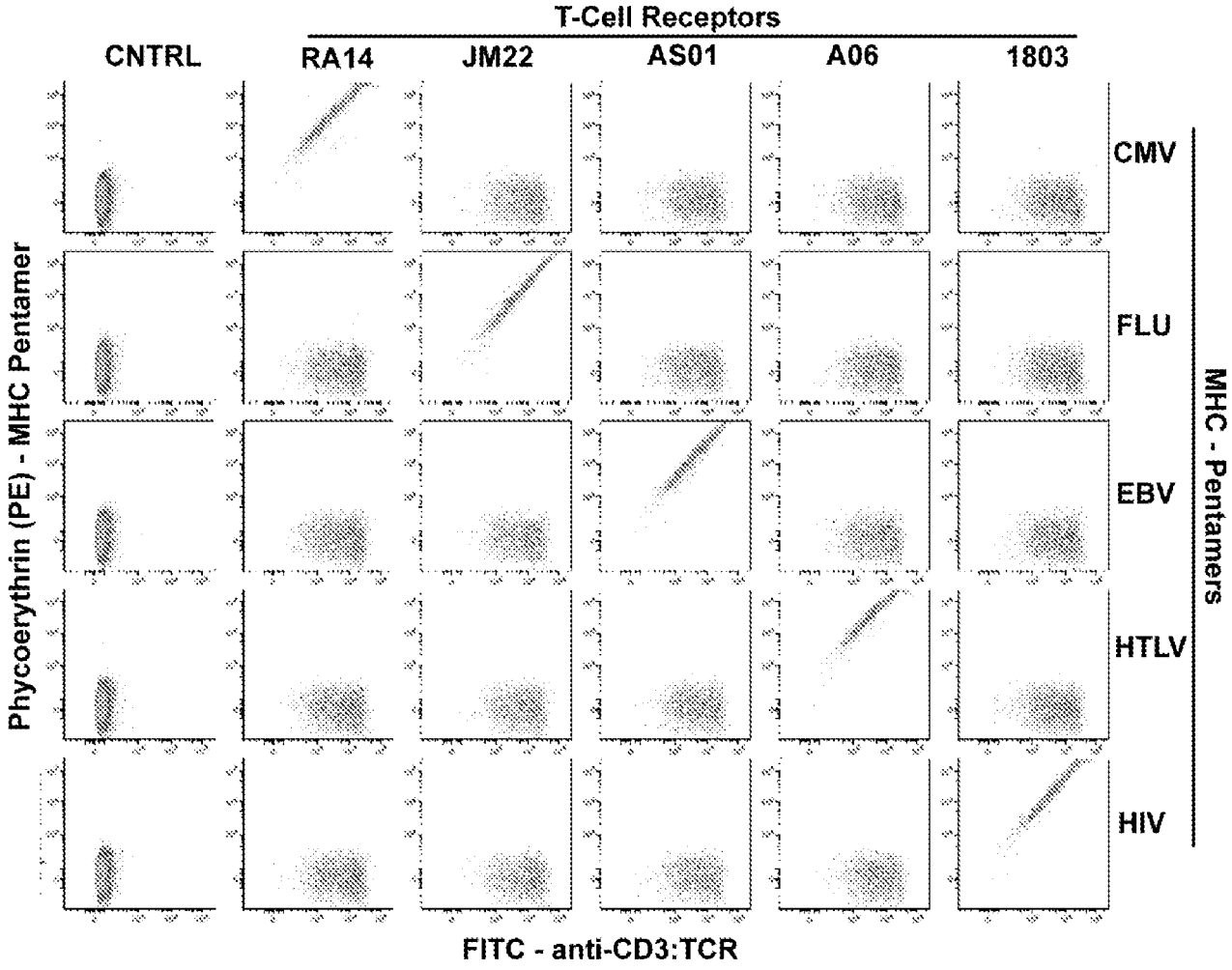

T-Cell Receptors
CNTRL
RA14
JM22
AS01
A06
1803
CMV
FLU
EBV
HTLV
HIV
MHC - Pentamers
Phycoerythrin (PE) - MHC Pentamer
FITC - anti-CD3:TCR

Fig. 6

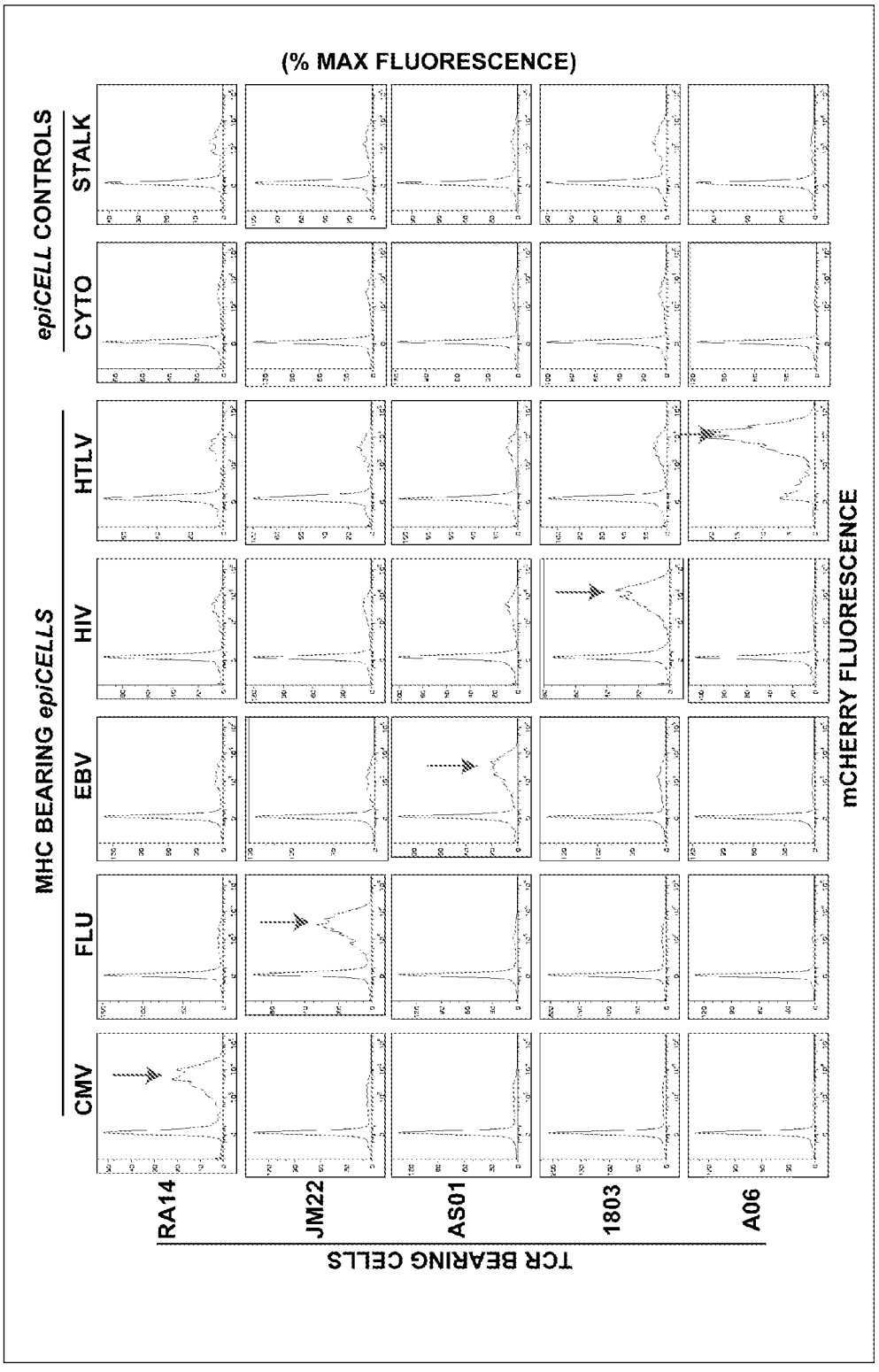

(% MAX FLUORESCENCE)
MHC BEARING epiCELLS
CMV
FLU
EBV
HIV
HTLV
epiCELL CONTROLS
CYTO
STALK
TCR BEARING CELLS
RA14
JM22
AS01
1803
A06
mCHERRY FLUORESCENCE

Fig. 7

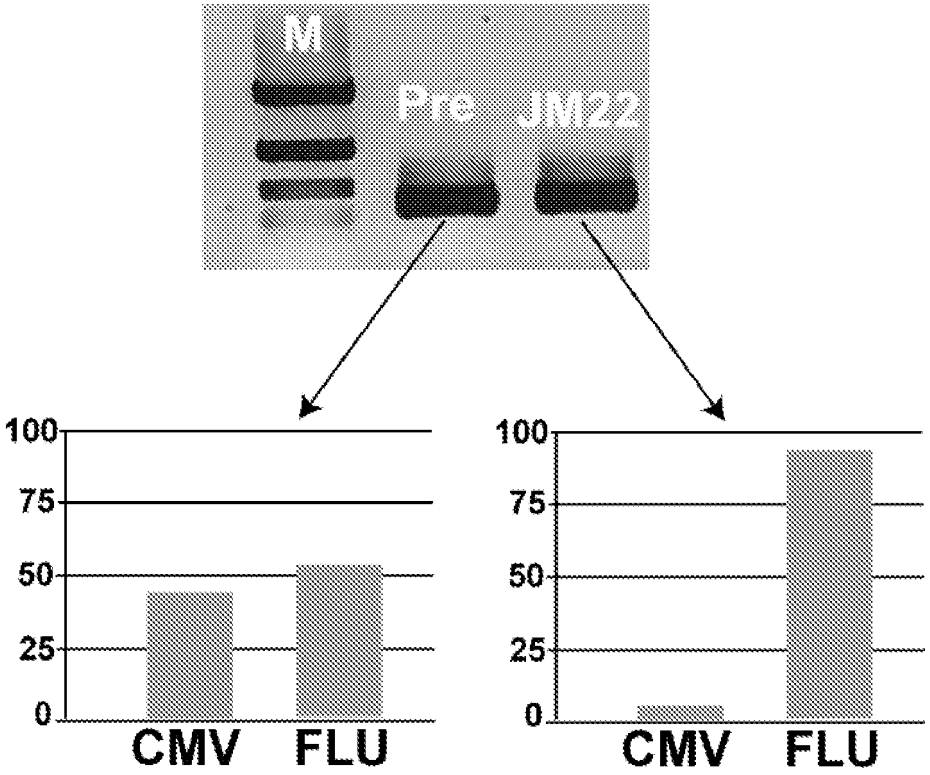


Fig. 8

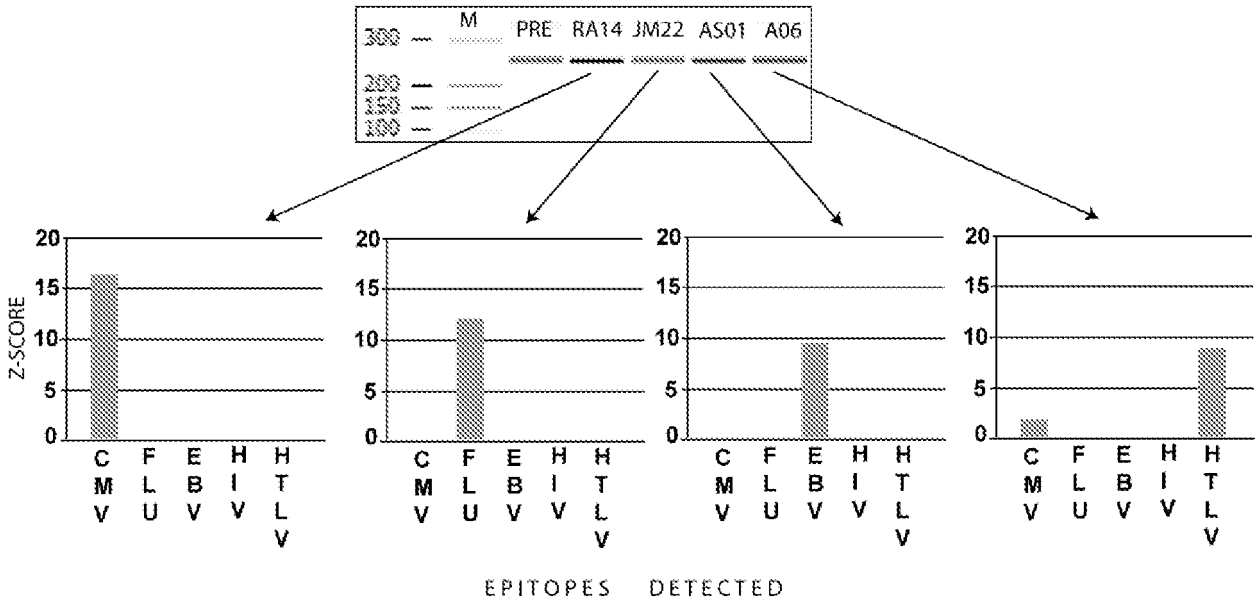

M
PRE
RA14
JM22
AS01
A06
300
200
150
100
Z-SCORE
20
15
10
5
0
CMV
FLU
EBV
HIV
HTLV
EPITOPES DETECTED

Fig. 9

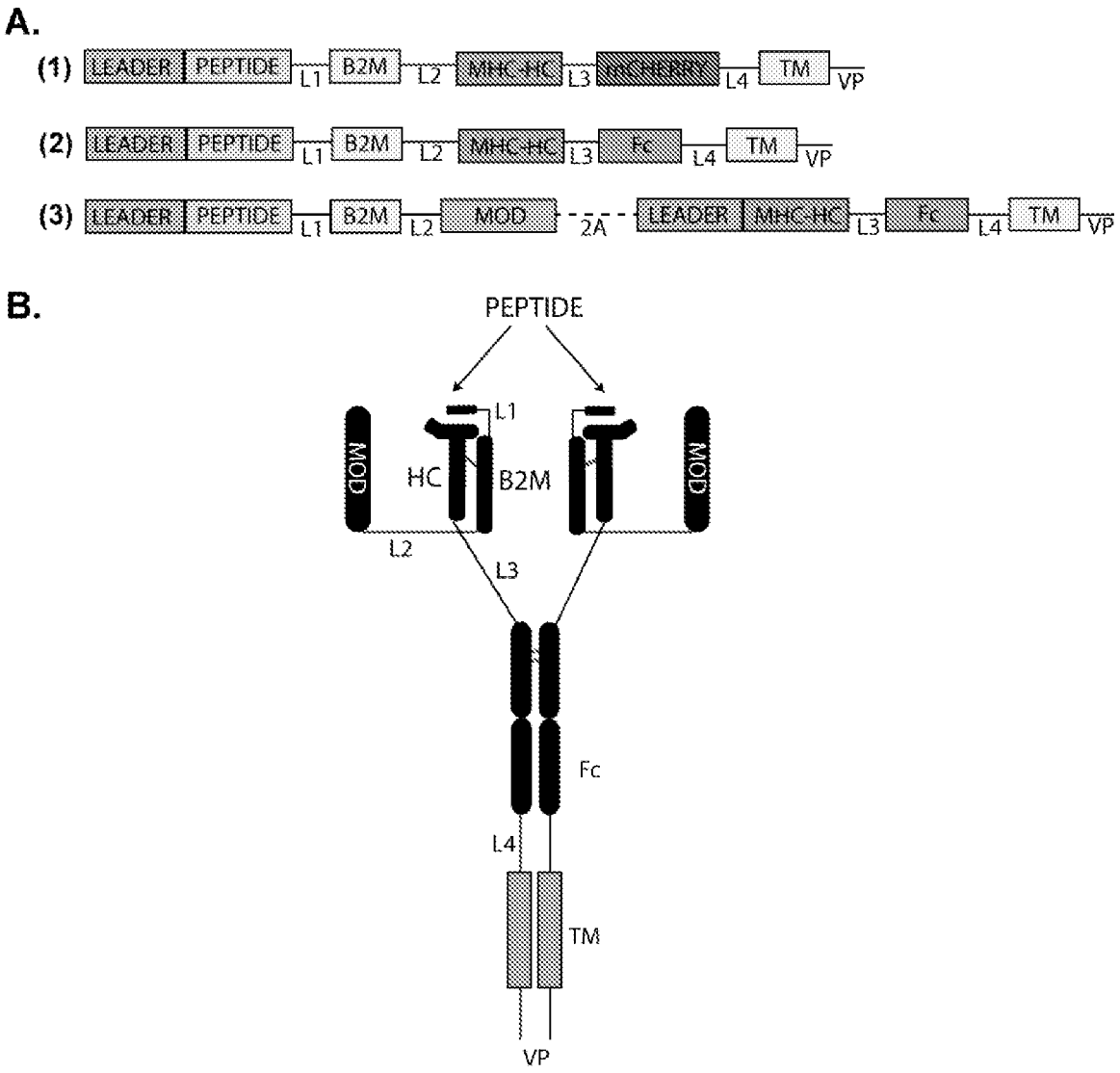

A.
(1)
LEADER
PEPTIDE
L1
B2M
L2
MHC-HC
L3
MHC-HCRRT
L4
TM
VP
(2)
LEADER
PEPTIDE
L1
B2M
L2
MHC-HC
L3
Fc
L4
TM
VP
(3)
LEADER
PEPTIDE
L1
B2M
L2
MOD
2A
LEADER
MHC-HC
L3
Fc
L4
TM
VP
B.
PEPTIDE
L1
MOD
HC
B2M
MOD
L2
L3
Fc
L4
TM
VP

Fig. 10A-10B

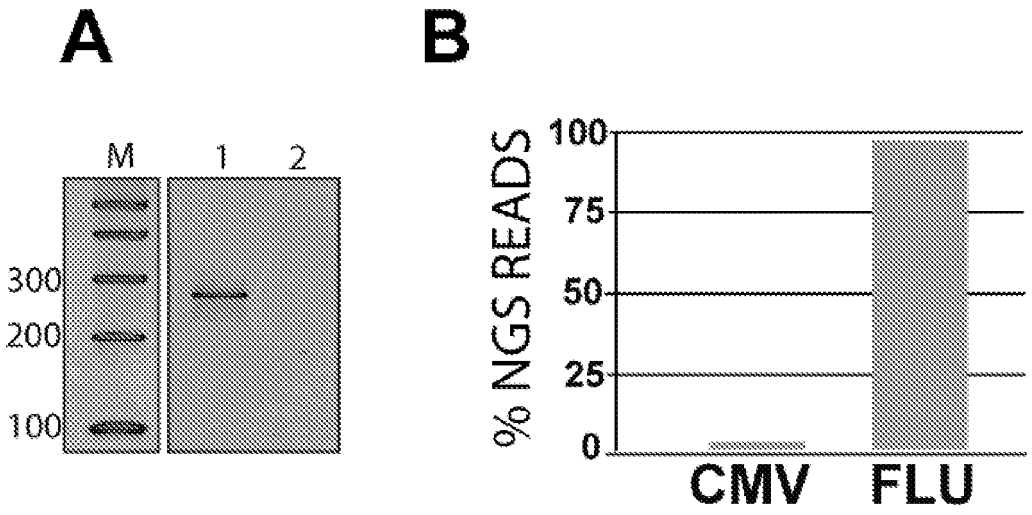


Fig. 11A-11B

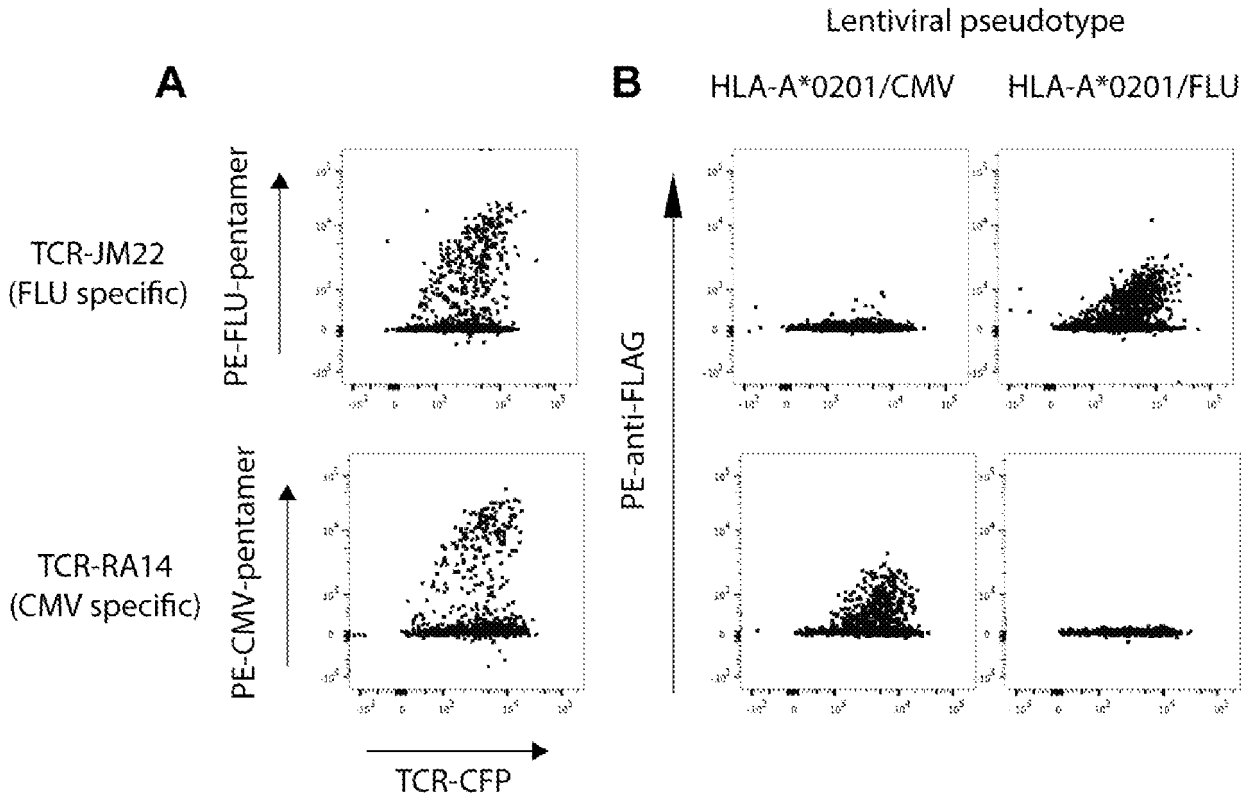

A
B
Lentiviral pseudotype
HLA-A*0201/CMV
HLA-A*0201/FLU
TCR-JM22
(FLU specific)
TCR-RA14
(CMV specific)
PE-FLU-pentamer
PE-CMV-pentamer
PE-anti-FLAG
TCR-CFP

Fig. 12A-12B