Figure 1

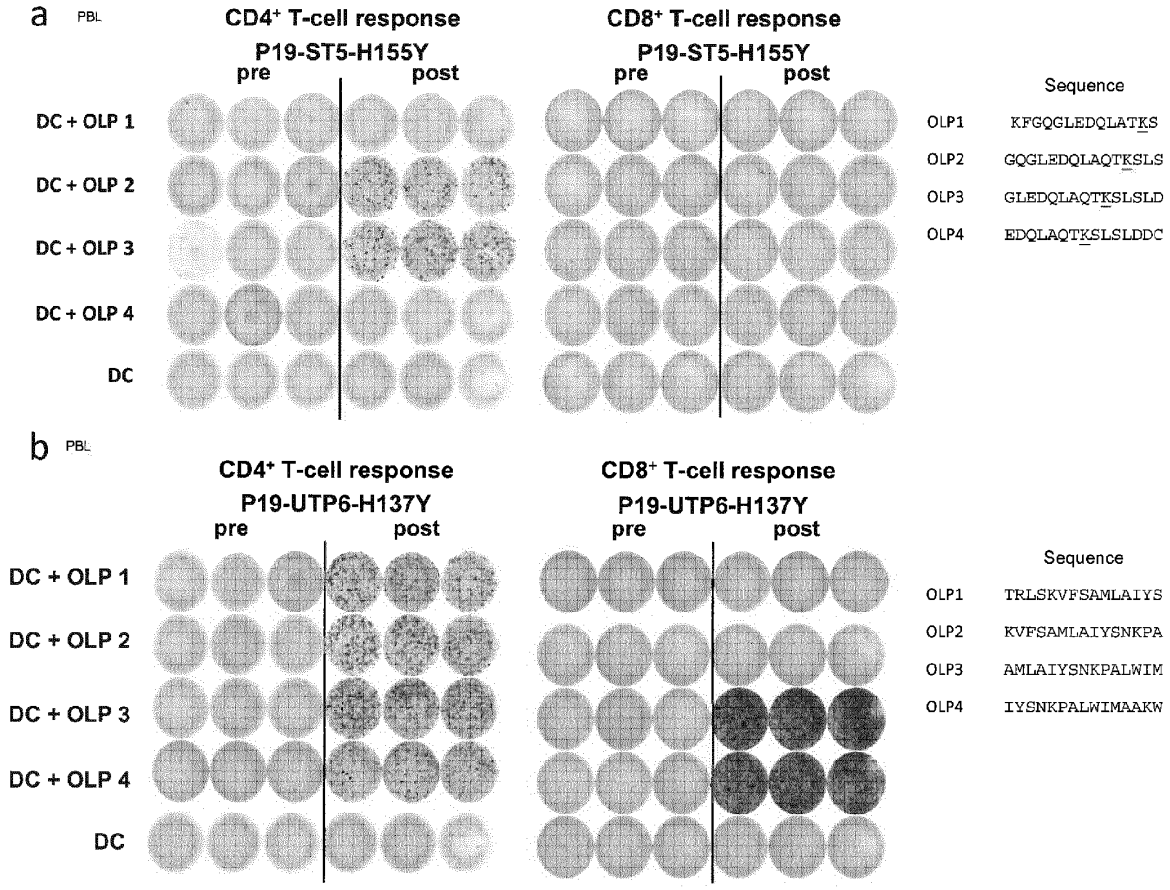

a
PBL
CD4+ T-cell response
P19-ST5-H155Y
pre
post
CD8+ T-cell response
P19-ST5-H155Y
pre
post
DC + OLP 1
DC + OLP 2
DC + OLP 3
DC + OLP 4
DC
Sequence
OLP1 KFGQGLEDQLATKS
OLP2 GQGLEDQLAQTKSLS
OLP3 GLEDQLAQTKSLSLD
OLP4 EDQLAQTKSLSLDDC
b
PBL
CD4+ T-cell response
P19-UTP6-H137Y
pre
post
CD8+ T-cell response
P19-UTP6-H137Y
pre
post
DC + OLP 1
DC + OLP 2
DC + OLP 3
DC + OLP 4
DC
Sequence
OLP1 TRLSKVFSAMLAIYS
OLP2 KVFSAMLAIYSNKPA
OLP3 AMLAIYSNKPALWIM
OLP4 IYSNKPALWIMAAKW

Figure 1 C

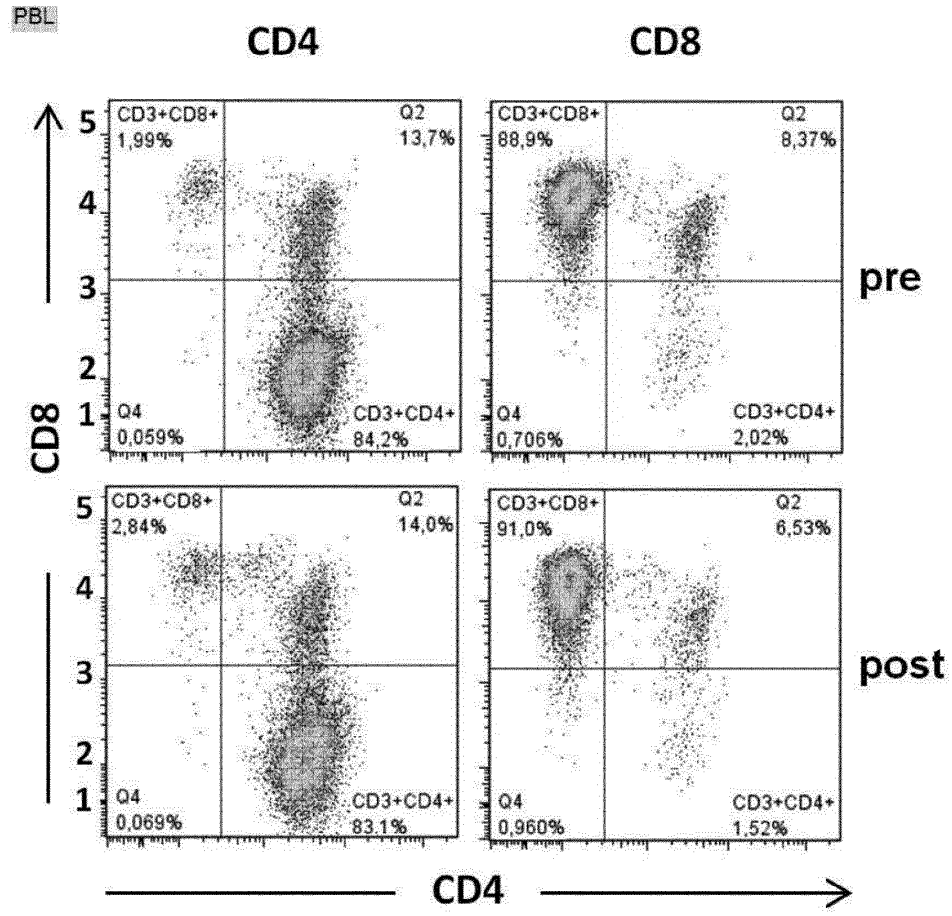

PBL
CD4
CD8
CD3+CD8+
1,99%
Q2
13,7%
Q4
0,059%
CD3+CD4+
84,2%
CD3+CD8+
88,9%
Q2
8,37%
Q4
0,706%
CD3+CD4+
2,02%
pre
CD3+CD8+
2,84%
Q2
14,0%
Q4
0,069%
CD3+CD4+
83,1%
CD3+CD8+
91,0%
Q2
6,53%
Q4
0,960%
CD3+CD4+
1,52%
post
CD8
CD4
5
4
3
2
1

Figure 2

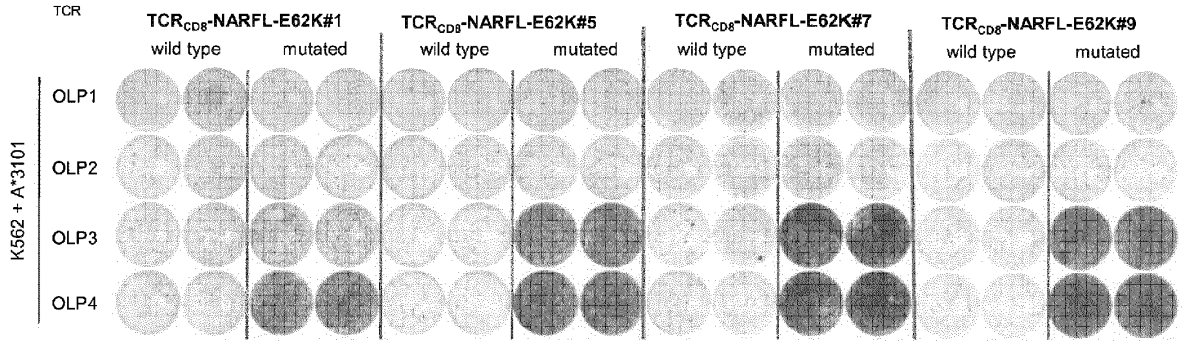
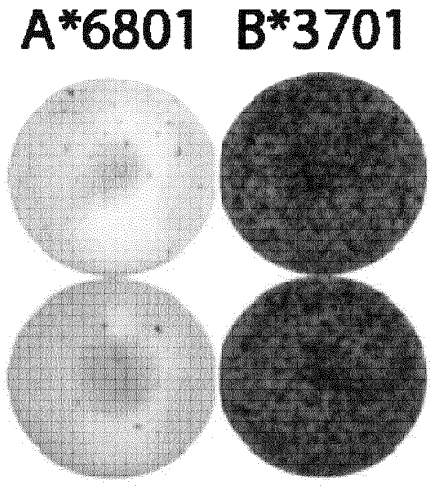
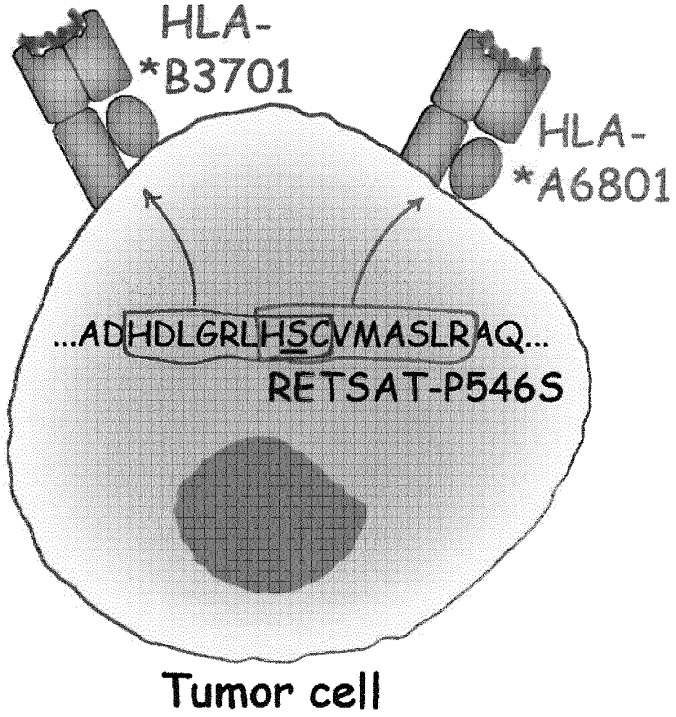

TCR
TCR$_{CD8}$-NARFL-E62K#1
wild type
mutated
TCR$_{CD8}$-NARFL-E62K#5
wild type
mutated
TCR$_{CD8}$-NARFL-E62K#7
wild type
mutated
TCR$_{CD8}$-NARFL-E62K#9
wild type
mutated
K562 + A*3101
OLP1
OLP2
OLP3
OLP4

Figure 3

a


A*6801 B*3701
K562 +
P17-RETSAT-P546S OLPs

b


HLA-
*B3701
HLA-
*A6801
...ADHDLGRLHSCVMASLRAQ...
RETSAT-P546S
Tumor cell

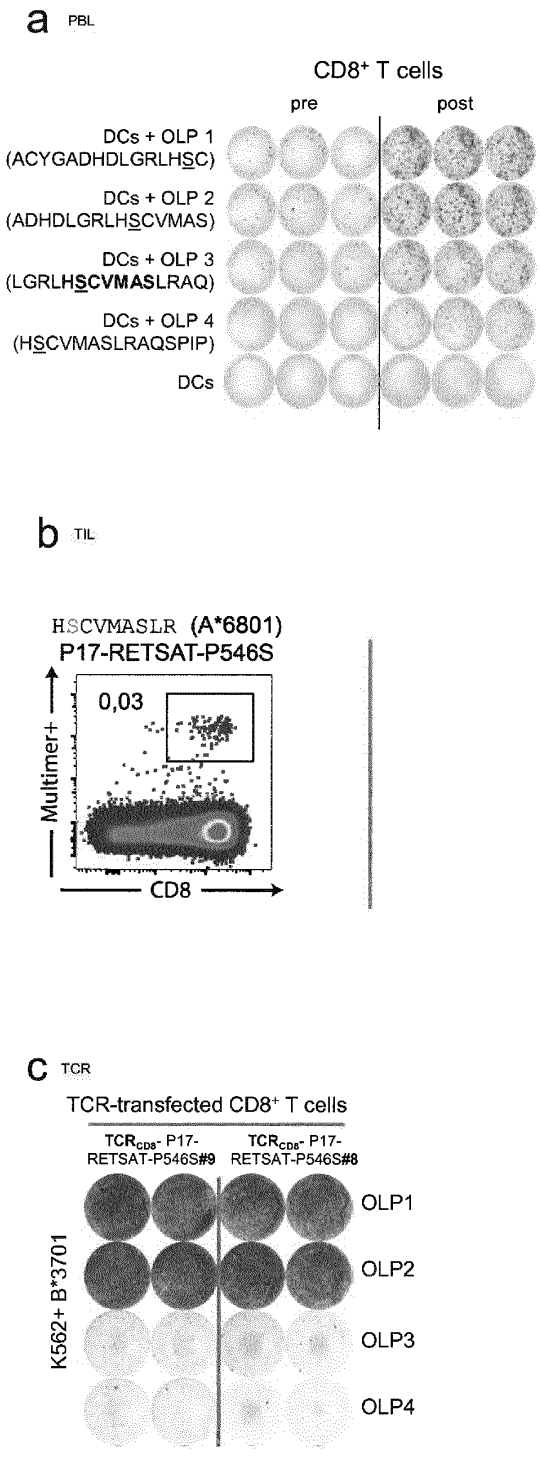

a PBL
CD8+ T cells
pre
post
DCs + OLP 1
(ACYGADHDLGRLHSC)
DCs + OLP 2
(ADHDLGRLHSCVMAS)
DCs + OLP 3
(LGRLHSCVMASLRAQ)
DCs + OLP 4
(HSCVMASLRAQSPIP)
DCs
b TIL
HSCVMASLR (A*6801)
P17-RETSAT-P546S
0,03
Multimer+
CD8
c TCR
TCR-transfected CD8+ T cells
TCRCD8- P17-RETSAT-P546S#9
TCRCD8- P17-RETSAT-P546S#8
K562+ B*3701
OLP1
OLP2
OLP3
OLP4

Figure 5

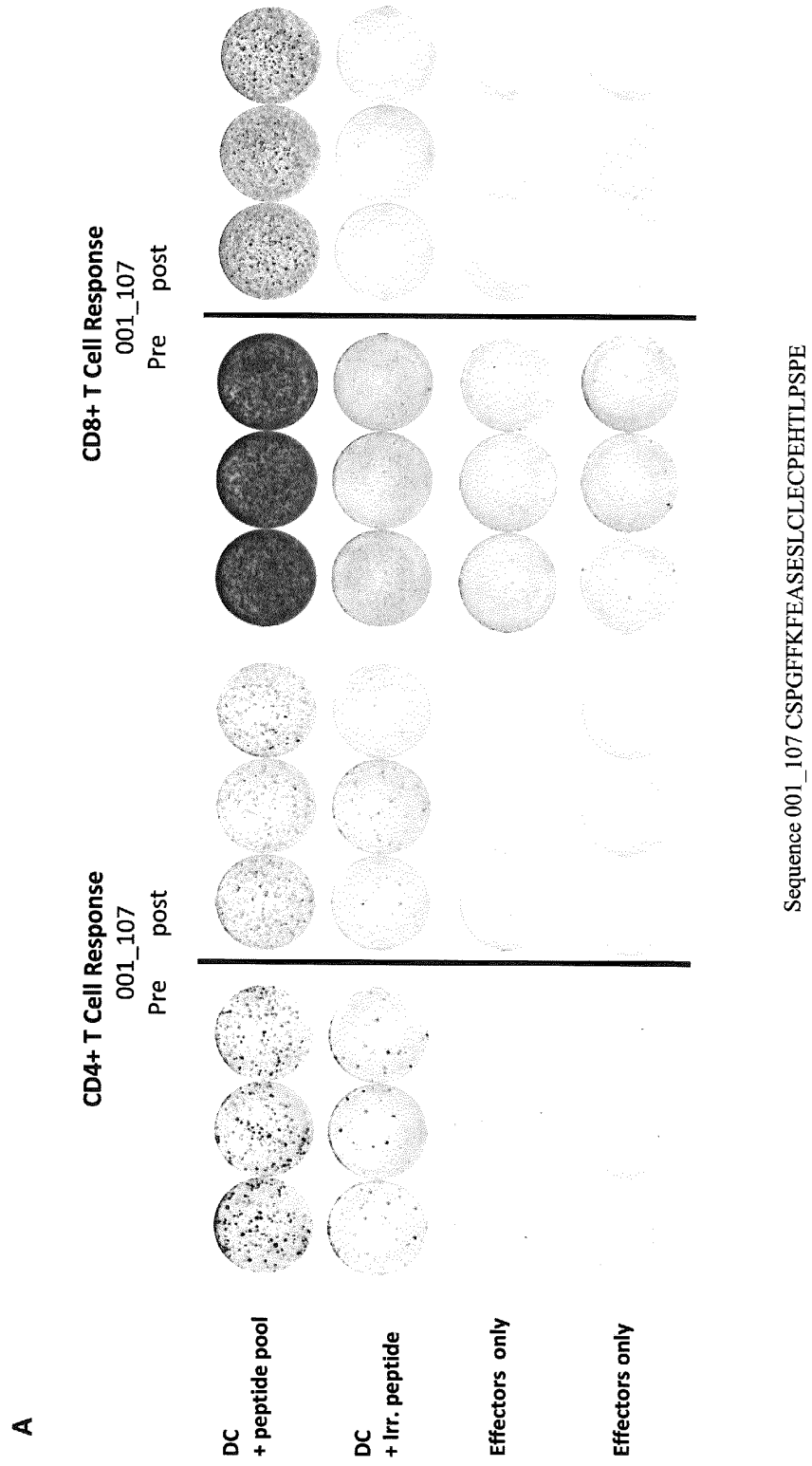

A
CD4+ T Cell Response
001_107
Pre post
CD8+ T Cell Response
001_107
Pre post
DC + peptide pool
DC + Irr. peptide
Effectors only
Effectors only
Sequence 001_107 CSPGFFKFEASESLCLECPEHTLPSPE

Figure 5

B

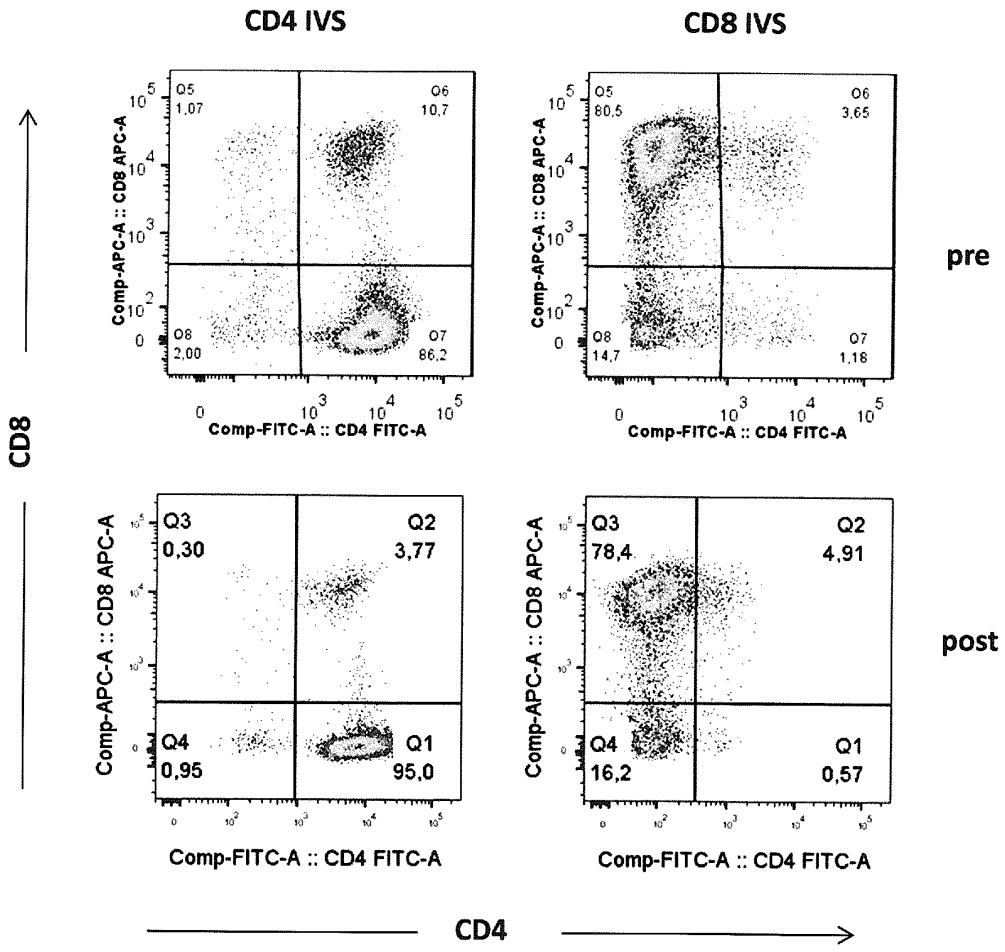

CD4 IVS
CD8 IVS
Q5 1,07
Q6 10,7
Q8 2,00
Q7 86,2
Q5 80,5
Q6 3,65
Q8 14,7
Q7 1,18
pre
Comp-APC-A :: CD8 APC-A
Comp-FITC-A :: CD4 FITC-A
CD8
Q3 0,30
Q2 3,77
Q4 0,95
Q1 95,0
Q3 78,4
Q2 4,91
Q4 16,2
Q1 0,57
post
CD4

Figure 5

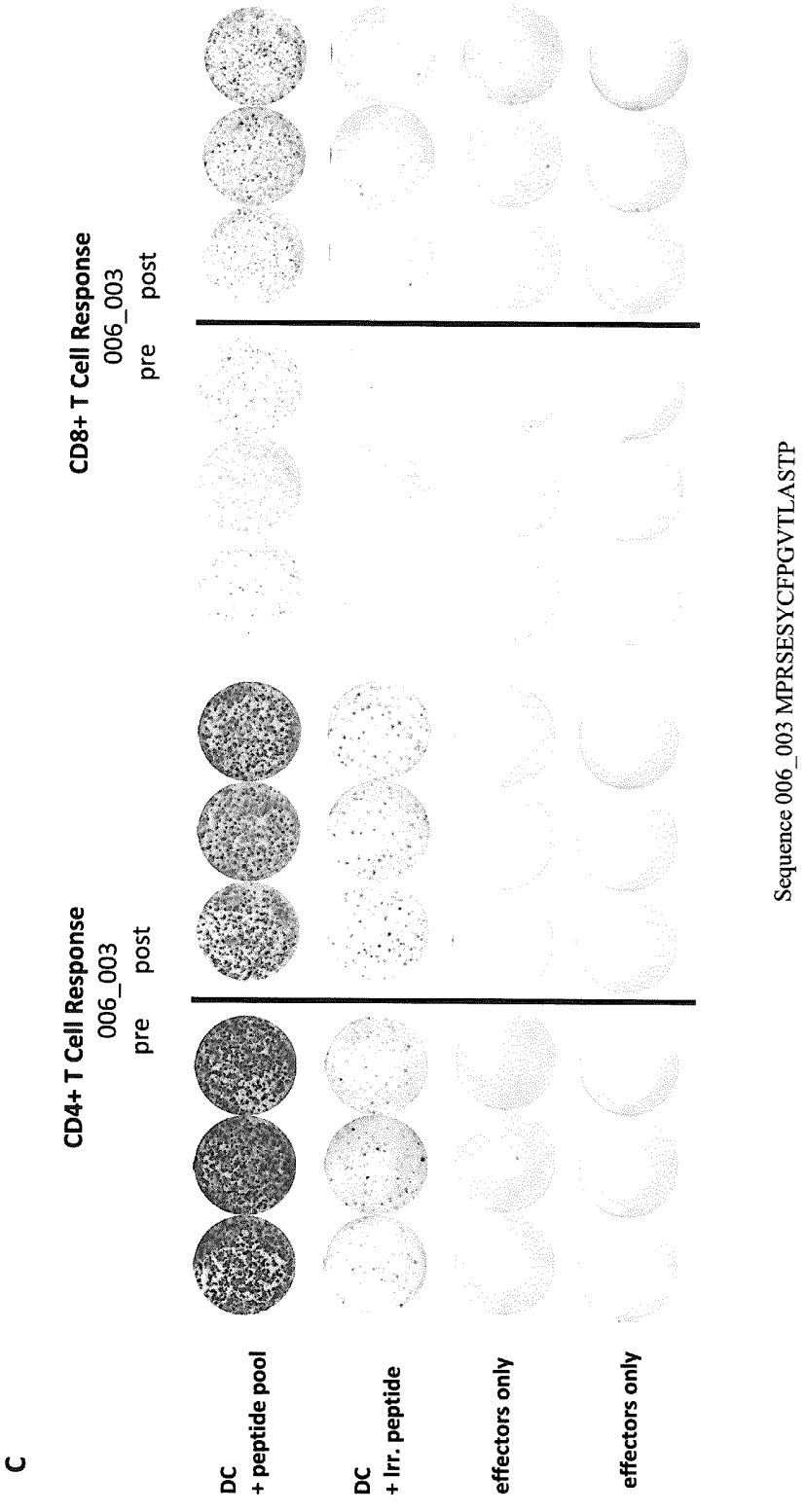
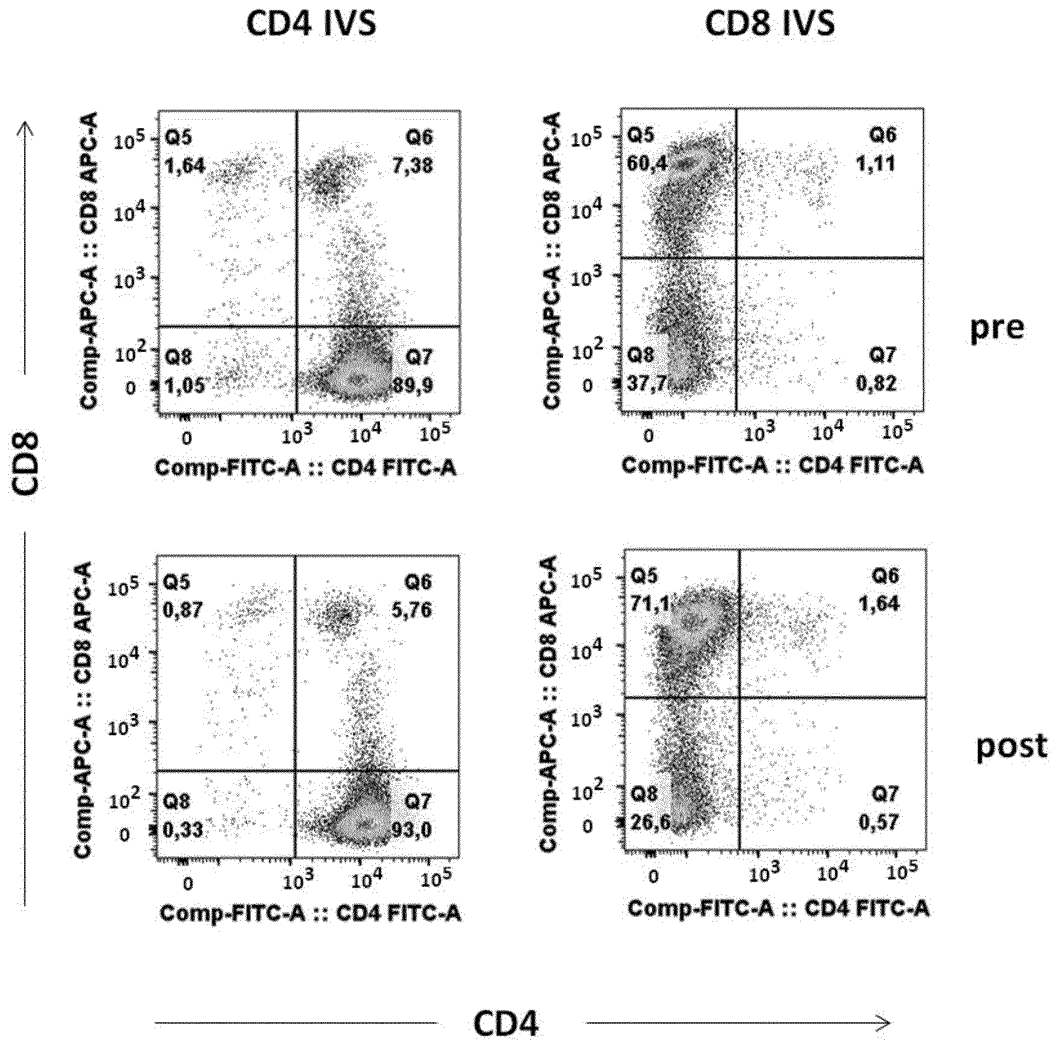

C
CD4+ T Cell Response
006_003
pre post
CD8+ T Cell Response
006_003
pre post
DC + peptide pool
DC + Irr. peptide
effectors only
effectors only
Sequence 006_003 MPRSESYCFPGVTLASTP

Figure 5 D


CD4 IVS
CD8 IVS
CD8
CD4
pre
post
Comp-APC-A :: CD8 APC-A
Comp-FITC-A :: CD4 FITC-A
Q5 1,64
Q6 7,38
Q8 1,05
Q7 89,9
Q5 60,4
Q6 1,11
Q8 37,7
Q7 0,82
Q5 0,87
Q6 5,76
Q8 0,33
Q7 93,0
Q5 71,1
Q6 1,64
Q8 26,6
Q7 0,57