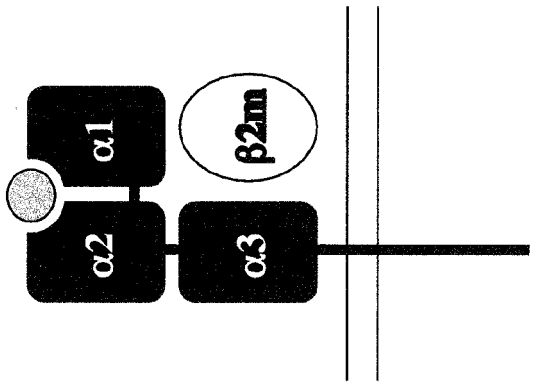


FIG. 1

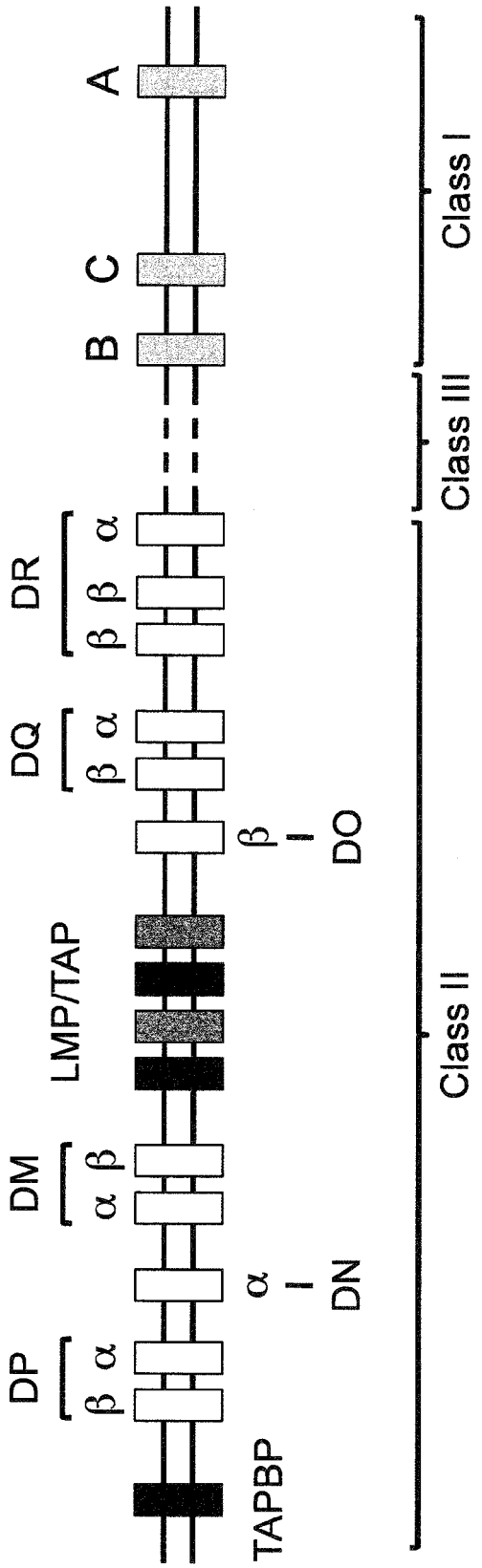

A
B C
B
DR
β β α
DQ
β α
β
I
DO
LMP/TAP
DM
α β
α
I
DN
DP
β α
TAPBP
Class I
Class III
Class II

FIG. 2

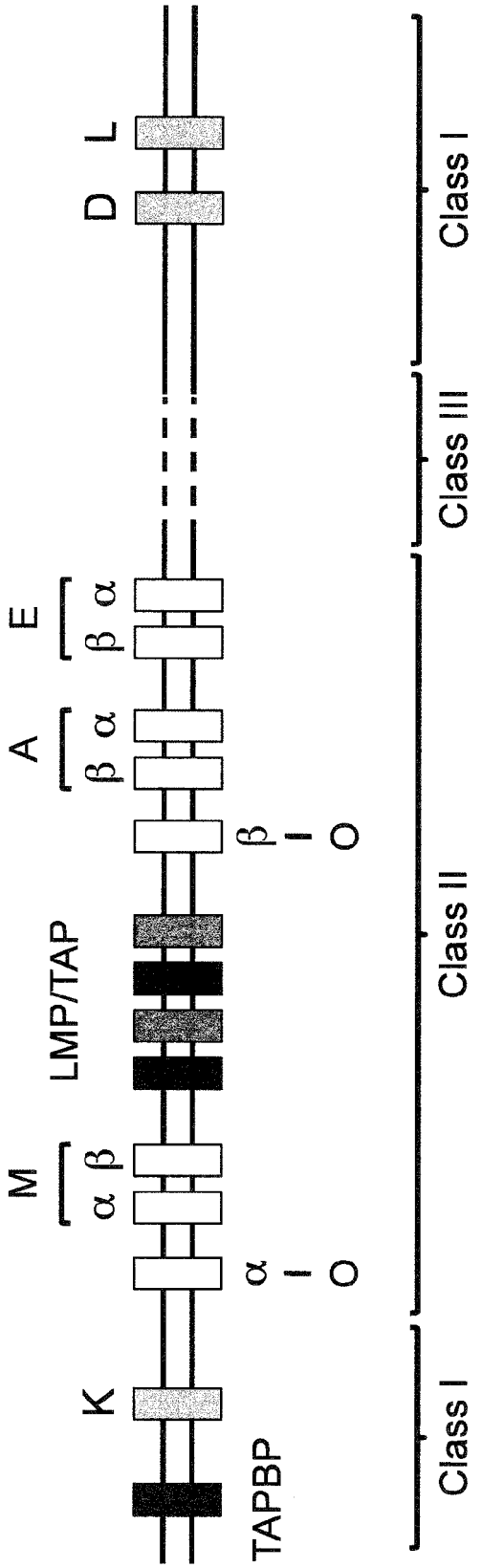
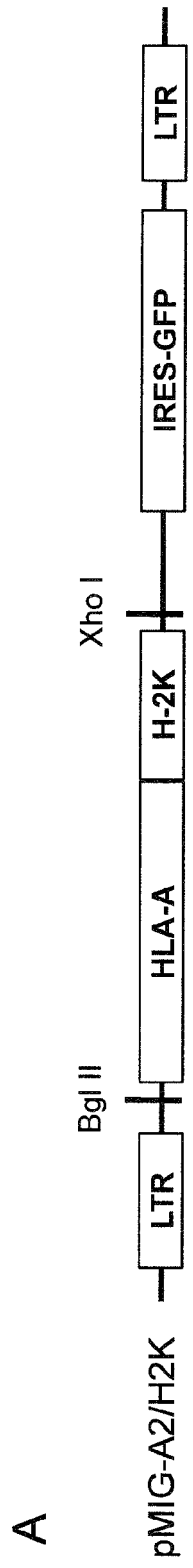
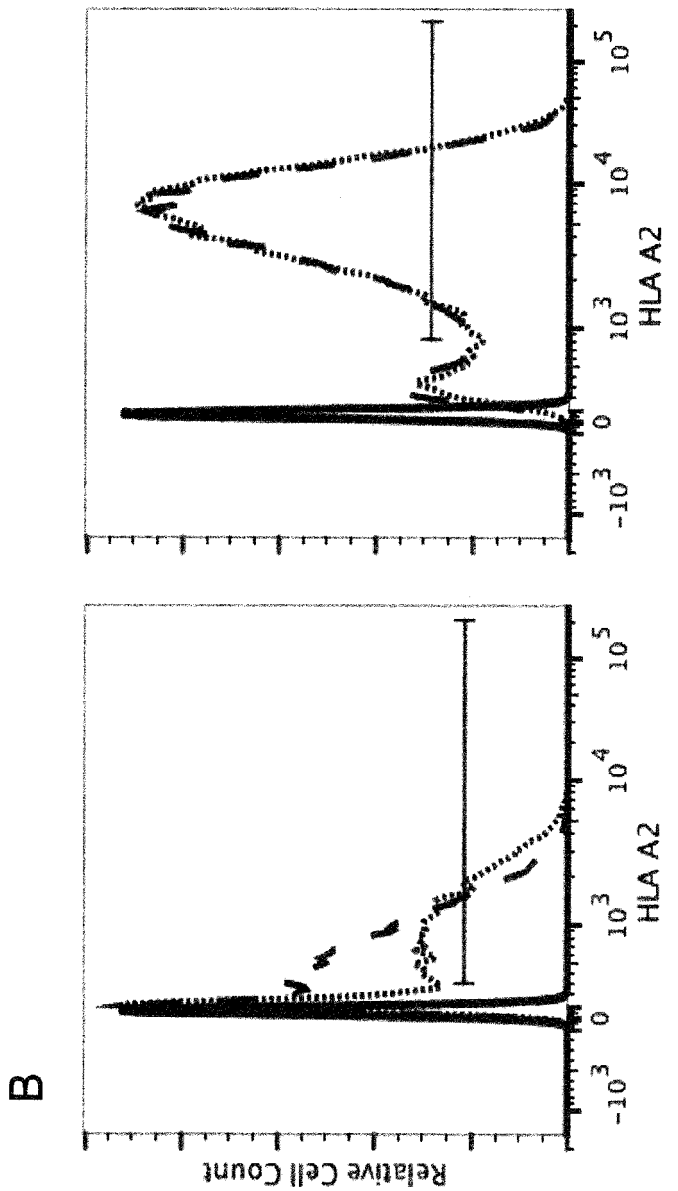

TAPBP
K
M
α β
α
I
O
LMP/TAP
A
β α
β
I
O
E
β α
D L
Class I
Class II
Class III
Class I

FIG. 3





C

	% of cells expressing construct	
	no β2M	+ β2M
no transduction	0.017	
human HLA-A2	68.1	86.3
HLA-A2/H2-K	68.6	88

FIG. 4

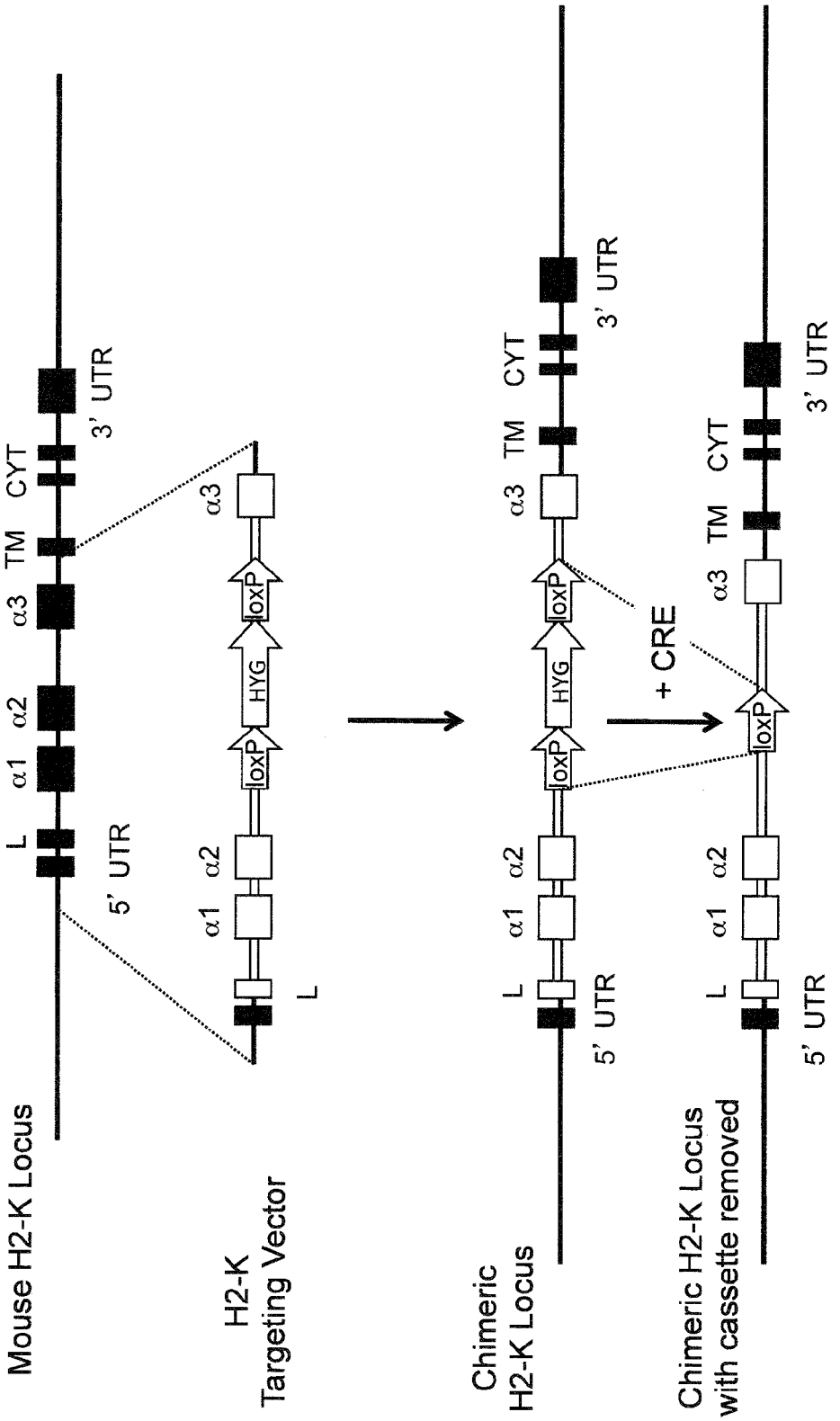

Mouse H2-K Locus
L
α1
α2
α3
TM
CYT
3' UTR
5' UTR
H2-K
Targeting Vector
α3
loxP
HYG
loxP
α1
α2
L
Chimeric
H2-K Locus
+ CRE
Chimeric H2-K Locus
with cassette removed

FIG. 5

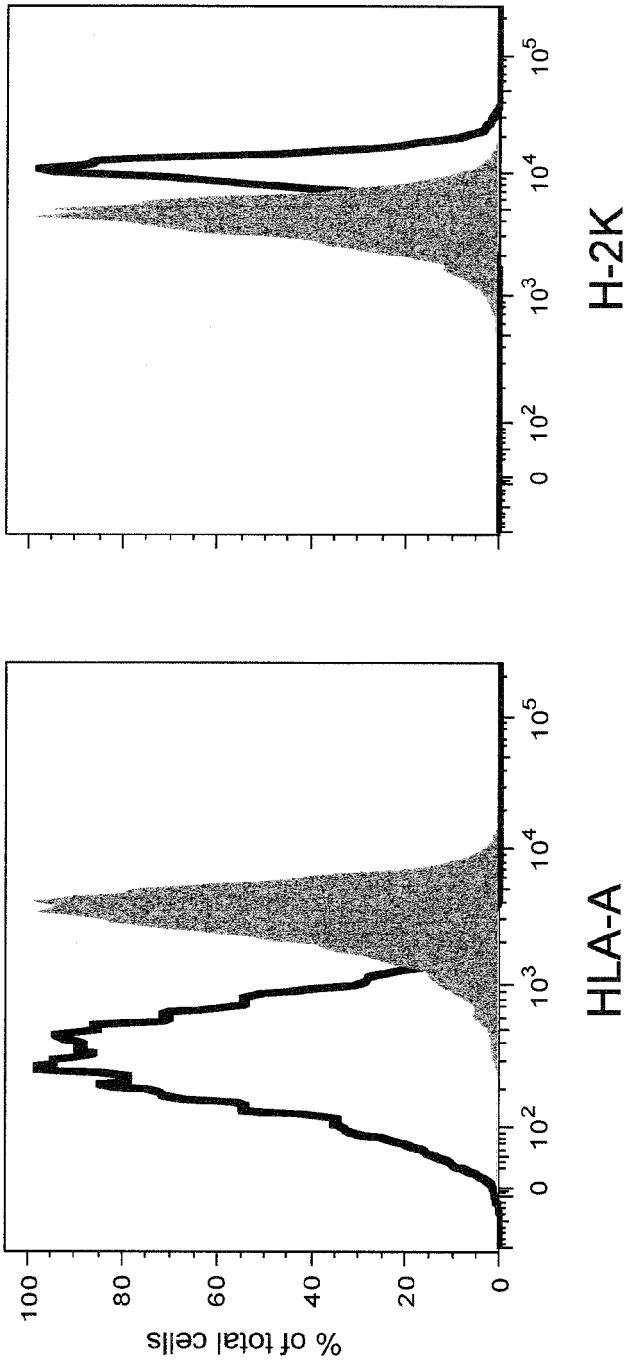

% of total cells
100
80
60
40
20
0
HLA-A
H-2K
0
10^2
10^3
10^4
10^5
WT
HLA-A/H-2K HET

FIG. 6A

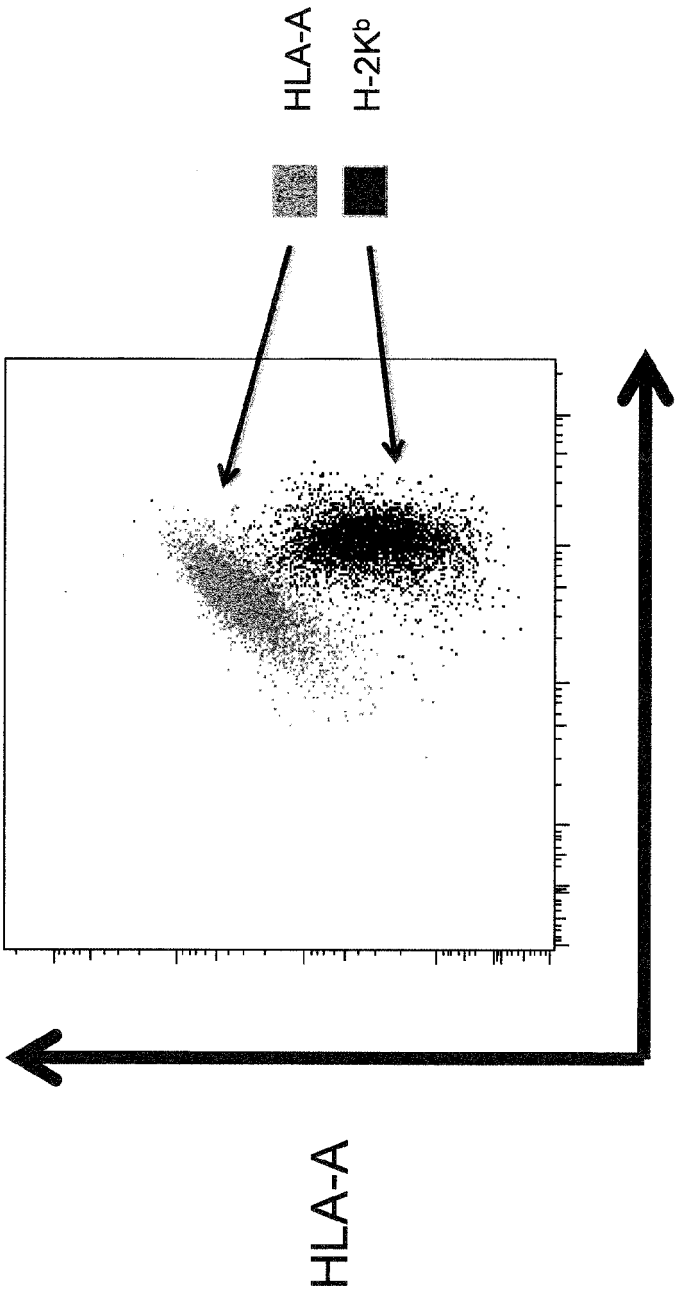


FIG. 6B

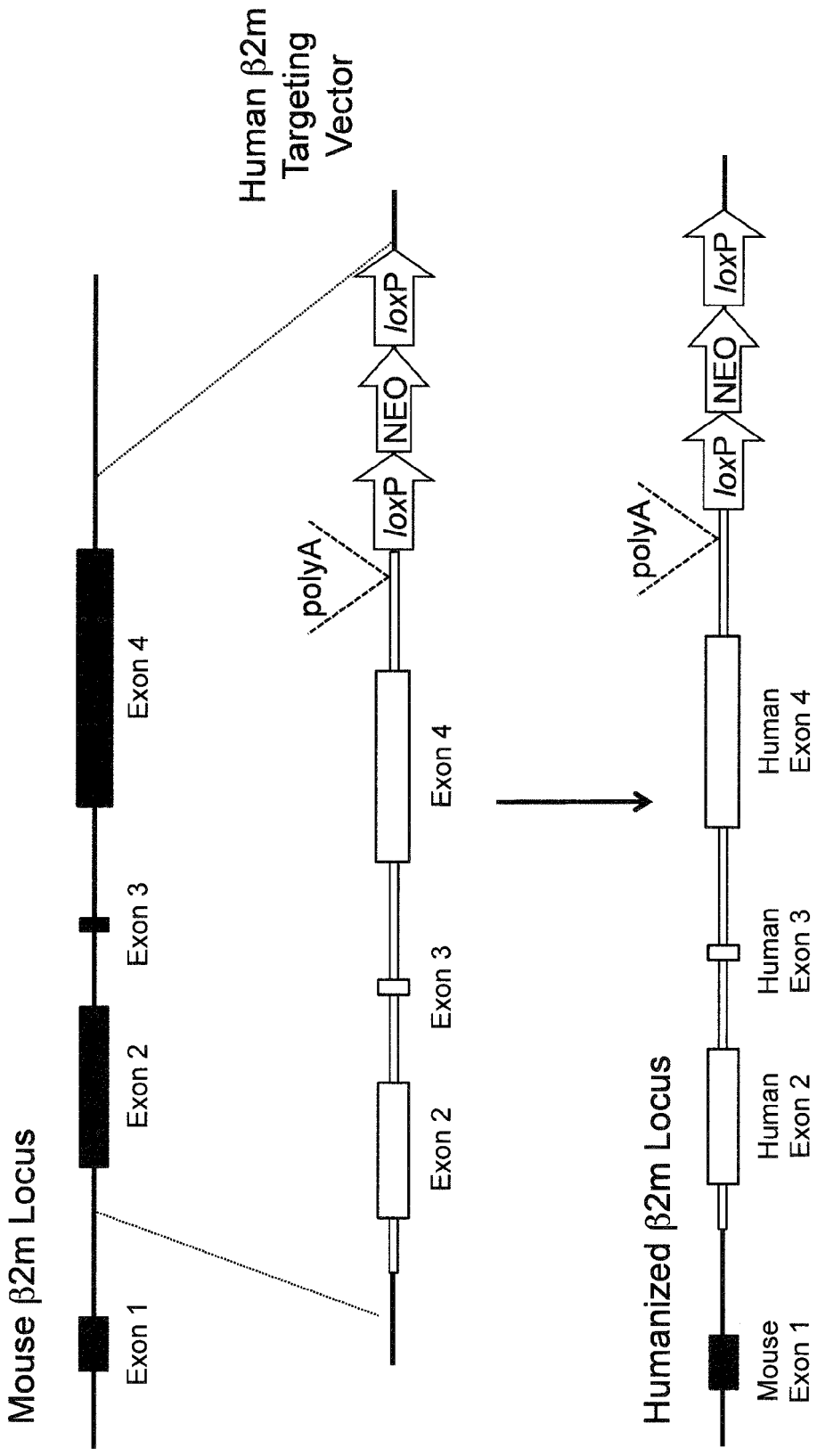

Mouse β2m Locus
Exon 1
Exon 2
Exon 3
Exon 4
Human β2m Targeting Vector
polyA
loxP
NEO
loxP
Exon 2
Exon 3
Exon 4
Humanized β2m Locus
Mouse Exon 1
Human Exon 2
Human Exon 3
Human Exon 4
polyA
loxP
NEO
loxP

FIG. 7

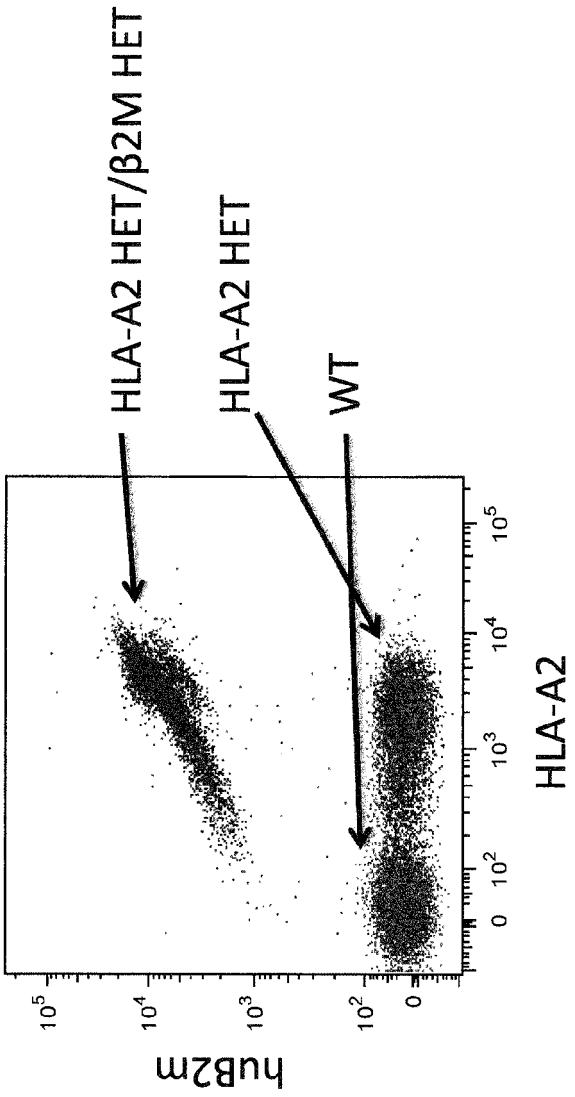


FIG. 8

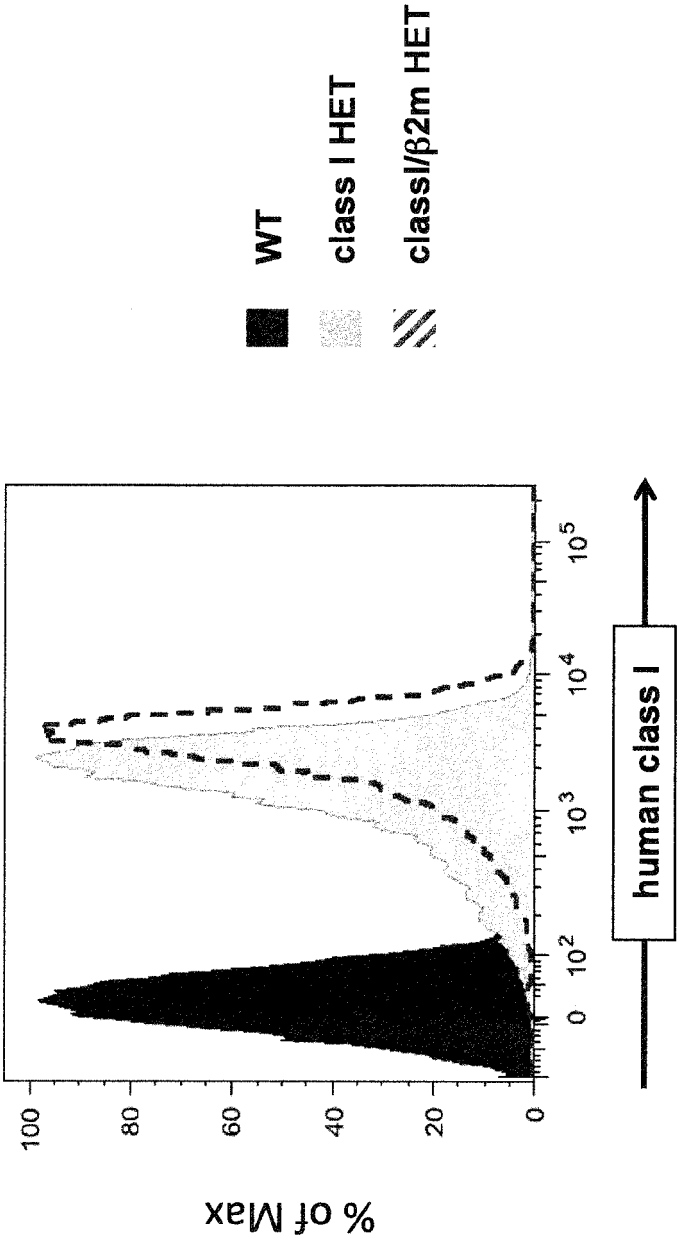

WT
class I HET
classI/β2m HET
% of Max
100
80
60
40
20
0
0
10^2
10^3
10^4
10^5
human class I

FIG. 9

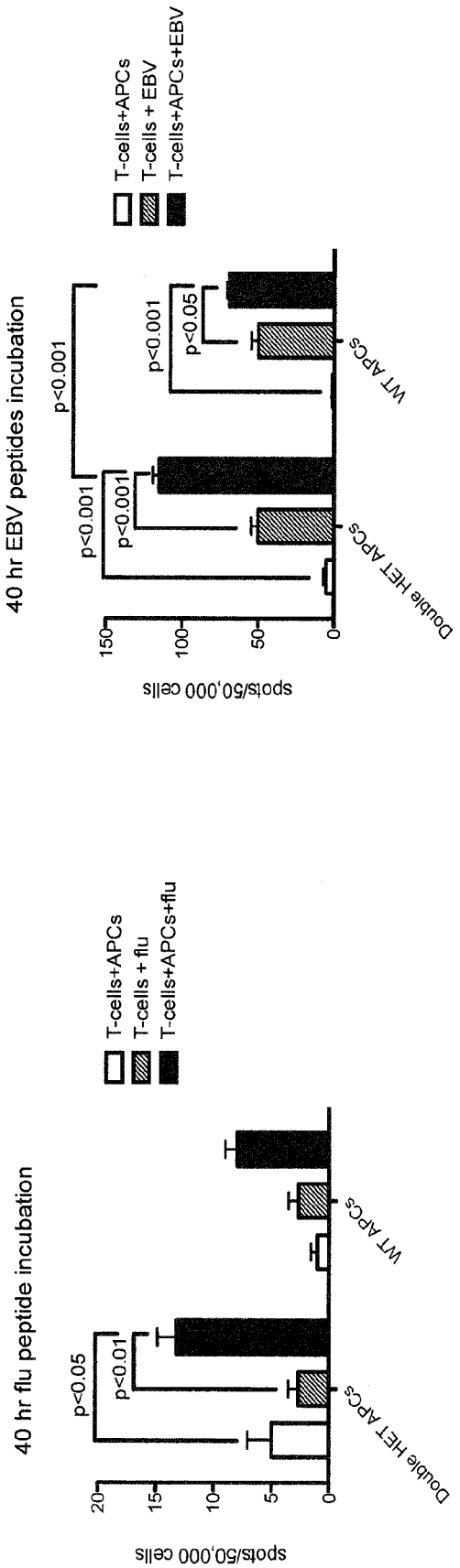

40 hr EBV peptides incubation
T-cells+APCs
T-cells + EBV
T-cells+APCs+EBV
p<0.001
p<0.001
p<0.001
p<0.001
p<0.05
spots/50,000 cells
150
100
50
0
Double HET APCs
WT APCs
40 hr flu peptide incubation
T-cells+APCs
T-cells + flu
T-cells+APCs+flu
p<0.05
p<0.01
spots/50,000 cells
20
15
10
5
0
Double HET APCs
WT APCs

FIG. 10