SEQUENCE LISTING

<110> Regeneron Pharmaceuticals, Inc.

<120> Genetically Modified Major Histocompatibility Complex Mice

<130> 0825A-WO

<150> 61/552,582
<151> 2011-10-28

<150> 61/552,587
<151> 2011-10-28

<150> 61/700,908
<151> 2012-09-14

<160> 8

<170> PatentIn version 3.5

<210> 1
<211> 200
<212> DNA
<213> Artificial

<220>
<223> 5' homology arm of MHC I targeting construct

<400> 1
ggattcccca tctccacagt ttcacttctg cacctaacct gggtcaggtc cttctgtccg 60

gacactgttg acgcgcagtc agctcttacc cccattgggt ggcgcgatca cccaagaacc 120

aatcagtgtc gccgcggacg ctggatataa agtccacgca gcccgcagaa ctcagaagtc 180

gcgaatcgcc gacaggtgcg 200

<210> 2
<211> 200
<212> DNA
<213> Artificial

<220>
<223> 3' homology arm of MHC I targeting construct

<400> 2
gtaaggagag tgtgggtgca gagctggggt cagggaaagc tggagctttc tgcagaccct 60

gagctgctca gggctgagag ctggggtcat gaccctcacc ttcatttctt gtacctgtcc 120

ttcccagagc ctcctccatc cactgtctcc aacatggcga ccgttgctgt tctggttgtc 180

cttggagctg caatagtcac 200

<210> 3
<211> 149
<212> DNA
<213> Artificial

<220>
<223> Sequence of the chimeric human/mouse MHC I locus at the 5' junction of mouse/human sequences

<400> 3

agtgtcgccg cggacgctgg atataaagtc cacgcagccc gcagaactca gaagtcgcga 60

atcgccgaca ggtgcgatgg ccgtcatggc gccccgaacc ctcgtcctgc tactctcggg 120

ggctctggcc ctgacccaga cctgggcgg 149

<210> 4
<211> 159
<212> DNA
<213> Artificial

<220>
<223> Sequence of the chimeric human/mouse MHC I locus at the 3' junction of human/mouse sequences

<400> 4
ggtggtgcct tctggacagg agcagagata cacctgccat gtgcagcatg agggtttgcc 60

caagcccctc accctgagat ggggtaagga gagtgtgggt gcagagctgg ggtcagggaa 120

agctggagct ttctgcagac cctgagctgc tcagggctg 159

<210> 5
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Probe for detection of hygromycin cassette

<400> 5
acgagcgggt tcggcccatt c 21

<210> 6
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Probe for detection of human HLA-A2 alpha2-alpha3 intron

<400> 6
agtccttcag cctccactca ggtcagg 27

<210> 7
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Probe for detection of Human HLA-A2 alpha2 exon

<400> 7
taccaccagt acgcctacga cggca 25

<210> 8
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Probe for detection of human HLA-A2 alpha2-alpha3 intron

<400> 8
atcctgtacc agagagtg 18