

0825AWO
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 gggtcagggtc cttctgtccg 60
 gacactgttg acgcgcagtc agctcttacc cccattgggt ggcgcgatca cccaagaacc 120
 aatcagtgtc gccgcggacg ctggatataa agtcacgca 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
 gagctgtca gggctgagag ctgggggtcat gaccctcacc ttcatttctt gtacctgtcc 120
 ttcccagagc ctctccatc cactgtctcc aacatggcga ccgttgctgt tctggttgctc 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

0825AWO

```

agtgtcgccg cggacgctgg atataaagtc cacgcagccc gcagaactca gaagtcgcga      60
atcgccgaca ggtgcgatgg ccgtcatggc gccccgaacc ctcgtcctgc tactctcggg    120
ggctctggcc ctgaccaga 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 tcggccatt 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

```

0825AWO

<400> 8
atcctgtacc agagagtg

18