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SEQUENCE LISTING

<110> Regeneron Pharmaceuticals, Inc.
Herndler-Brandstetter, Dietmar
Flavell, Richard
Frleta, Davor
Gurer, Cagan
Manz, Markus
Murphy, Andrew J.
Palm, Noah W.
Shan, Liang
Stevens, Sean
Strowig, Till
Yancopoulos, George D.
de Zoete, Marcel

<120> GENETICALLY MODIFIED NON-HUMAN ANIMALS AND METHODS OF USE THEREOF

<130> REGN-016WO

<150> US62/146938
<151> 2015-04-13

<150> US62/148667
<151> 2015-04-16

<150> US62/287842
<151> 2016-01-27

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465 470 475 480

His Val Gln Ile Ala Arg Ala Leu Gln Thr Pro Lys Arg Asn Pro Pro
485 490 495

Leu Gln Lys Pro Pro Met Lys Ser Leu His Lys Lys Gly Ser Gly Lys
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<210> 28
<211> 1612
<212> DNA
<213> Mus musculus

<400> 28
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<210> 29
 <211> 369
 <212> PRT
 <213> Mus musculus

<400> 29

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Asn Glu Asp Ile Lys Ala Asp Leu Ile Leu Thr Ser Thr Ala Pro Glu
 35 40 45

His Leu Ser Ala Pro Thr Leu Pro Leu Pro Glu Val Gln Cys Phe Val
 50 55 60

Phe Asn Ile Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro
 65 70 75 80

Gln Ala Thr Asn Leu Thr Leu His Tyr Arg Tyr Lys Val Ser Asp Asn
 85 90 95

Asn Thr Phe Gln Glu Cys Ser His Tyr Leu Phe Ser Lys Glu Ile Thr
 100 105 110

Ser Gly Cys Gln Ile Gln Lys Glu Asp Ile Gln Leu Tyr Gln Thr Phe
 115 120 125

Val Val Gln Leu Gln Asp Pro Gln Lys Pro Gln Arg Arg Ala Val Gln
 130 135 140

Lys Leu Asn Leu Gln Asn Leu Val Ile Pro Arg Ala Pro Glu Asn Leu
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Arg His Ile Lys Glu Arg Cys Leu Gln Tyr Leu Val Gln Tyr Arg Ser
180 185 190

Asn Arg Asp Arg Ser Trp Thr Glu Leu Ile Val Asn His Glu Pro Arg
195 200 205

Phe Ser Leu Pro Ser Val Asp Glu Leu Lys Arg Tyr Thr Phe Arg Val
210 215 220

Arg Ser Arg Tyr Asn Pro Ile Cys Gly Ser Ser Gln Gln Trp Ser Lys
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Trp Ser Gln Pro Val His Trp Gly Ser His Thr Val Glu Glu Asn Pro
245 250 255

Ser Leu Phe Ala Leu Glu Ala Val Leu Ile Pro Val Gly Thr Met Gly
260 265 270

Leu Ile Ile Thr Leu Ile Phe Val Tyr Cys Trp Leu Glu Arg Met Pro
275 280 285

Pro Ile Pro Pro Ile Lys Asn Leu Glu Asp Leu Val Thr Glu Tyr Gln
290 295 300

Gly Asn Phe Ser Ala Trp Ser Gly Val Ser Lys Gly Leu Thr Glu Ser
305 310 315 320

Leu Gln Pro Asp Tyr Ser Glu Arg Phe Cys His Val Ser Glu Ile Pro
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<211> 2012
<212> DNA
<213> Homo sapiens

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 <212> PRT
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<400> 31

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 35 40 45
 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile
 50 55 60
 Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His
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 Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu Leu Glu Leu Gln
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 Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His Asp Thr Val Glu
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 Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val
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<210> 32

<211> 2333

<212> DNA

<213> Homo sapiens

<400> 32

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 <213> Mus musculus
 <400> 33

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Ile Glu Asp Leu Ile Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr
35 40 45

Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe
50 55 60

Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile
65 70 75 80

His Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser
85 90 95

Ser Asn Gly Asn Val Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu
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Gln Met Phe Ile Asn Thr Ser
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<211> 1297
<212> DNA
<213> Mus musculus

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<210> 35
<211> 160
<212> PRT
<213> Mus musculus

<400> 35

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Val Phe Ile Leu Gly Cys Val Ser Val Gly Leu Pro Lys Thr Glu Ala
35 40 45

Asn Trp Ile Asp Val Arg Tyr Asp Leu Glu Lys Ile Glu Ser Leu Ile
50 55 60

Gln Ser Ile His Ile Asp Thr Thr Leu Tyr Thr Asp Ser Asp Phe His
65 70 75 80

Pro Ser Cys Lys Val Thr Ala Met Asn Cys Phe Leu Leu Glu Leu Gln
85 90 95

Val Ile Leu His Glu Tyr Ser Asn Met Thr Leu Asn Glu Thr Val Arg
100 105 110

Asn Val Leu Tyr Leu Ala Asn Ser Thr Leu Ser Ser Asn Lys Asn Val
115 120 125

Ala Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Thr Phe
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<211> 1287
<212> DNA
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