

# SEQUENCE LISTING

<110> Regeneron Pharmaceuticals, Inc.

<120> Non-Human Animals Expressing Humanized CD3 Complex

<130> 7310P1

<150> 62/083,653

<151> 2014-11-24

<150> 62/106,999

<151> 2015-01-23

<160> 35

<170> PatentIn version 3.5

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20 25 30

Gln Thr Pro Tyr Lys Val Ser Ile Ser Gly Thr Thr Val Ile Leu Thr  
35 40 45

Cys Pro Gln Tyr Pro Gly Ser Glu Ile Leu Trp Gln His Asn Asp Lys  
50 55 60

Asn Ile Gly Gly Asp Glu Asp Asp Lys Asn Ile Gly Ser Asp Glu Asp  
65 70 75 80

His Leu Ser Leu Lys Glu Phe Ser Glu Leu Glu Gln Ser Gly Tyr Tyr  
85 90 95

Val Cys Tyr Pro Arg Gly Ser Lys Pro Glu Asp Ala Asn Phe Tyr Leu  
100 105 110

Tyr Leu Arg Ala Arg Val Cys Glu Asn Cys Met Glu Met Asp Val Met  
115 120 125

Ser Val Ala Ile Ile Ile Ile Val Asp Ile Cys Ile Thr Leu Gly Leu  
130 135 140

Leu Met Val Ile Tyr Tyr Trp Ser Lys Asn Arg Lys Ala Lys Ala Lys  
145 150 155 160

Pro Val Thr Arg Gly Thr Gly Ala Gly Ser Arg Pro Arg Gly Gln Asn  
165 170 175

Lys Glu Arg Pro Pro Pro Val Pro Asn Pro Asp Tyr Glu Pro Ile Arg  
180 185 190

Lys Gly Gln Arg Asp Leu Tyr Ser Gly Leu Asn Gln Arg Ala Val  
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Pro Gln Val Ser Pro Phe Lys Ile Pro Ile Glu Glu Leu Glu Asp Arg  
20 25 30

Val Phe Val Asn Cys Asn Thr Ser Ile Thr Trp Val Glu Gly Thr Val  
35 40 45

Gly Thr Leu Leu Ser Asp Ile Thr Arg Leu Asp Leu Gly Lys Arg Ile  
50 55 60

Leu Asp Pro Arg Gly Ile Tyr Arg Cys Asn Gly Thr Asp Ile Tyr Lys  
65 70 75 80

Asp Lys Glu Ser Thr Val Gln Val His Tyr Arg Met Cys Gln Ser Cys  
85 90 95

Val Glu Leu Asp Pro Ala Thr Val Ala Gly Val Ile Phe Ile Asp Leu  
100 105 110

Ile Ala Thr Leu Leu Leu Ala Leu Gly Val Tyr Cys Phe Ala Gly His  
115 120 125

Glu Thr Gly Arg Pro Ser Gly Ala Ala Glu Val Gln Ala Leu Leu Lys  
130 135 140

Asn Glu Gln Leu Tyr Gln Pro Leu Arg Asp Arg Glu Asp Thr Gln Tyr  
145 150 155 160

Ser Arg Leu Gly Gly Asn Trp Pro Arg Asn Lys Lys Ser  
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Val Tyr Asp 35 Tyr Gln Glu Asp 40 Gly Ser Val Leu Leu Thr 45 Cys Asp Ala

Glu Ala Lys Asn Ile Thr 55 Trp Phe Lys Asp Gly 60 Lys Met Ile Gly Phe

Leu Thr Glu Asp Lys 70 Lys Trp Asn Leu Gly 75 Ser Asn Ala Lys 80 Asp

Pro Arg Gly Met 85 Tyr Gln Cys Lys Gly 90 Ser Gln Asn Lys Ser 95 Lys Pro

Leu Gln Val 100 Tyr Tyr Arg Met Cys 105 Gln Asn Cys Ile Glu 110 Leu Asn Ala

Ala Thr Ile 115 Ser Gly Phe Ile 120 Phe Ala Glu Val Ile 125 Ser Ile Phe Phe

Leu Ala 130 Leu Gly Val Tyr 135 Leu Ile Ala Gly Gln 140 Asp Gly Val Arg Gln

Ser Arg Ala Ser Asp 150 Lys Gln Thr Leu Leu 155 Gln Asn Glu Gln Leu Tyr 160

Gln Pro Leu Lys 165 Asp Arg Glu Tyr Asp 170 Gln Tyr Ser His Leu 175 Gln Gly

Asn Gln Leu 180 Arg Lys Lys

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<212> PRT  
<213> Mus musculus

<400> 27

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Val Gly Thr 20 Cys Gln Asp Asp Ala 25 Glu Asn Ile Glu Tyr 30 Lys Val Ser

Ile ser Gly 35 Thr Ser Val Glu 40 Leu Thr Cys Pro Leu 45 Asp Ser Asp Glu

Asn Leu 50 Lys Trp Glu Lys 55 Asn Gly Gln Glu Leu 60 Pro Gln Lys His Asp

Lys His Leu Val Leu Gln Asp Phe Ser Glu Val Glu Asp Ser Gly Tyr  
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# SEQUENCE LISTING

Ser Val Ala Thr Ile Val Ile Val Asp Ile Cys Ile Thr Gly Gly Leu  
130 135 140

Leu Leu Leu Val Tyr Tyr Trp Ser Lys Asn Arg Lys Ala Lys Ala Lys  
145 150 155 160

Pro Val Thr Arg Gly Ala Gly Ala Gly Gly Arg Gln Arg Gly Gln Asn  
165 170 175

Lys Glu Arg Pro Pro Pro Val Pro Asn Pro Asp Tyr Glu Pro Ile Arg  
180 185 190

Lys Gly Gln Arg Asp Leu Tyr Ser Gly Leu Asn Gln Arg Arg Ile  
195 200 205

<210> 29  
<211> 173  
<212> PRT  
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Pro Gln Gly Ser Pro Phe Lys Ile Gln Val Thr Glu Tyr Glu Asp Lys  
20 25 30

Val Phe Val Thr Cys Asn Thr Ser Val Met His Leu Asp Gly Thr Val  
35 40 45

Glu Gly Trp Phe Ala Lys Asn Lys Thr Leu Asn Leu Gly Lys Gly Val  
50 55 60

Leu Asp Pro Arg Gly Ile Tyr Leu Cys Asn Gly Thr Glu Gln Leu Ala  
65 70 75 80

Lys Val Val Ser Ser Val Gln Val His Tyr Arg Met Cys Gln Asn Cys  
85 90 95

Val Glu Leu Asp Ser Gly Thr Met Ala Gly Val Ile Phe Ile Asp Leu  
100 105 110

Ile Ala Thr Leu Leu Leu Ala Leu Gly Val Tyr Cys Phe Ala Gly His  
115 120 125

Glu Thr Gly Arg Pro Ser Gly Ala Ala Glu Val Gln Ala Leu Leu Lys  
130 135 140

Asn Glu Gln Leu Tyr Gln Pro Leu Arg Asp Arg Glu Asp Thr Gln Tyr  
145 150 155 160

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Ser Arg Leu Gly Gly Asn Trp Pro Arg Asn Lys Lys Ser  
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<400> 30

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20 25 30

Val Phe Val Asn Cys Asn Thr Ser Ile Thr Trp Val Glu Gly Thr Val  
35 40 45

Gly Thr Leu Leu Ser Asp Ile Thr Arg Leu Asp Leu Gly Lys Arg Ile  
50 55 60

Leu Asp Pro Arg Gly Ile Tyr Arg Cys Asn Gly Thr Asp Ile Tyr Lys  
65 70 75 80

Asp Lys Glu Ser Thr Val Gln Val His Tyr Arg Met Cys Gln Ser Cys  
85 90 95

Val Glu Leu Asp Pro Ala Thr Val Ala Gly Ile Ile Val Thr Asp Val  
100 105 110

Ile Ala Thr Leu Leu Leu Ala Leu Gly Val Phe Cys Phe Ala Gly His  
115 120 125

Glu Thr Gly Arg Leu Ser Gly Ala Ala Asp Thr Gln Ala Leu Leu Arg  
130 135 140

Asn Asp Gln Val Tyr Gln Pro Leu Arg Asp Arg Asp Asp Ala Gln Tyr  
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Ser His Leu Gly Gly Asn Trp Ala Arg Asn Lys  
165 170

<210> 31  
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Leu Gln Gly Thr Val Ala Gln Thr Asn Lys Ala Lys Asn Leu Val Gln  
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SEQUENCE LISTING

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Val Asp Gly Ser Arg Gly Asp Gly Ser Val Leu Leu Thr Cys Gly Leu  
35 40 45

Thr Asp Lys Thr Ile Lys Trp Leu Lys Asp Gly Ser Ile Ile Ser Pro  
50 55 60

Leu Asn Ala Thr Lys Asn Thr Trp Asn Leu Gly Asn Asn Ala Lys Asp  
65 70 75 80

Pro Arg Gly Thr Tyr Gln Cys Gln Gly Ala Lys Glu Thr Ser Asn Pro  
85 90 95

Leu Gln Val Tyr Tyr Arg Met Cys Glu Asn Cys Ile Glu Leu Asn Ile  
100 105 110

Gly Thr Ile Ser Gly Phe Ile Phe Ala Glu Val Ile Ser Ile Phe Phe  
115 120 125

Leu Ala Leu Gly Val Tyr Leu Ile Ala Gly Gln Asp Gly Val Arg Gln  
130 135 140

Ser Arg Ala Ser Asp Lys Gln Thr Leu Leu Gln Asn Glu Gln Leu Tyr  
145 150 155 160

Gln Pro Leu Lys Asp Arg Glu Tyr Asp Gln Tyr Ser His Leu Gln Gly  
165 170 175

Asn Gln Leu Arg Lys Lys  
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Leu Gln Gly Thr Leu Ala Gln Ser Ile Lys Gly Asn His Leu Val Lys  
20 25 30

Val Tyr Asp Tyr Gln Glu Asp Gly Ser Val Leu Leu Thr Cys Asp Ala  
35 40 45

Glu Ala Lys Asn Ile Thr Trp Phe Lys Asp Gly Lys Met Ile Gly Phe  
50 55 60

Leu Thr Glu Asp Lys Lys Lys Trp Asn Leu Gly Ser Asn Ala Lys Asp  
65 70 75 80

# SEQUENCE LISTING

Pro Arg Gly Met Tyr Gln Cys Lys Gly Ser Gln Asn Lys Ser Lys Pro  
85 90 95

Leu Gln Val Tyr Tyr Arg Met Cys Gln Asn Cys Ile Glu Leu Asn Ala  
100 105 110

Ala Thr Ile Ser Gly Phe Leu Phe Ala Glu Ile Val Ser Ile Phe Val  
115 120 125

Leu Ala Val Gly Val Tyr Phe Ile Ala Gly Gln Asp Gly Val Arg Gln  
130 135 140

Ser Arg Ala Ser Asp Lys Gln Thr Leu Leu Pro Asn Asp Gln Leu Tyr  
145 150 155 160

Gln Pro Leu Lys Asp Arg Glu Asp Asp Gln Tyr Ser His Leu Gln Gly  
165 170 175

Asn Gln Leu Arg Arg Asn  
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<400> 33

Gly Val Trp Gly Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr Gln  
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Thr Pro Tyr Lys Val Ser Ile Ser Gly Thr Thr Val Ile Leu Thr Cys  
20 25 30

Pro Gln Tyr Pro Gly Ser Glu Ile Leu Trp Gln His Asn Asp Lys Asn  
35 40 45

Ile Gly Gly Asp Glu Asp Asp Lys Asn Ile Gly Ser Asp Glu Asp His  
50 55 60

Leu Ser Leu Lys Glu Phe Ser Glu Leu Glu Gln Ser Gly Tyr Tyr Val  
65 70 75 80

Cys Tyr Pro Arg Gly Ser Lys Pro Glu Asp Ala Asn Phe Tyr Leu Tyr  
85 90 95

Leu Arg Ala Arg Val Cys Glu Asn Cys Met Glu Met Asp Val Met Ser  
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Val

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Val Asn Cys Asn Thr Ser Ile Thr Trp Val Glu Gly Thr Val Gly Thr  
 20 25 30

Leu Leu Ser Asp Ile Thr Arg Leu Asp Leu Gly Lys Arg Ile Leu Asp  
 35 40 45

Pro Arg Gly Ile Tyr Arg Cys Asn Gly Thr Asp Ile Tyr Lys Asp Lys  
 50 55 60

Glu Ser Thr Val Gln Val His Tyr Arg Met Cys Gln Ser Cys Val Glu  
 65 70 75 80

Leu Asp Pro Ala Thr Val Ala  
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 20 25 30

Asn Ile Thr Trp Phe Lys Asp Gly Lys Met Ile Gly Phe Leu Thr Glu  
 35 40 45

Asp Lys Lys Lys Trp Asn Leu Gly Ser Asn Ala Lys Asp Pro Arg Gly  
 50 55 60

Met Tyr Gln Cys Lys Gly Ser Gln Asn Lys Ser Lys Pro Leu Gln Val  
 65 70 75 80

Tyr Tyr Arg Met Cys Gln Asn Cys Ile Glu Leu Asn Ala Ala Thr Ile  
 85 90 95

Ser