

SEQUENCE LISTING

<110> ÖÐÉ½;µ·½ÉúÎïÒ½Ò©ÓÐİþ¹«Ë¾

<120> ;¹CTLA4-;¹PD-1Ė«¹!ÄÜ;¹ìà;çÆäò@îî×é°îîî¼°ÆäóÃí¾

<130> IEC170038PCT

<160> 47

<170> PatentIn version 3.2

 $\langle 210 \rangle$ 1

<211> 372

<212> DNA

<213> Artificial

 $\langle 220 \rangle$

<223> 4G10ÖøÁ´;É±äÇøμÄºËËáĐòÁĐ

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tcctgcaagg cttctggtta ctcattcact ggctacacca tgaactgggt gaagcagagc 120

catggaaaga accttgaatg gattggactt attaatcctt acaataatat tactaactac 180

aaccagaagt tcatgggcaa ggccacattt actgtagaca agtcatccag cacagcctac 240

atggaactcc tcagactgac atctgaagac tctggagtct atttctgtgc aagactcgac 300

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 $\langle 210 \rangle \quad 2$

$\langle 211 \rangle$ 124

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$\langle 220 \rangle$

<223> 4G10ÖØÁ´;É±äÇøµÄ°±»ùËáÐòÁÐ

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Gln Val Lys Leu Gln Glu Ser Gly Pro Glu Leu Val Lys Pro Gly Ala

1

5

10

15

IEC170038PCT-seq1

Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
20 25 30

Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Leu Glu Trp Ile
35 40 45

Gly Leu Ile Asn Pro Tyr Asn Asn Ile Thr Asn Tyr Asn Gln Lys Phe
50 55 60

Met Gly Lys Ala Thr Phe Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Leu Arg Leu Thr Ser Glu Asp Ser Gly Val Tyr Phe Cys
85 90 95

Ala Arg Leu Asp Tyr Arg Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ala Ala Lys Thr Thr Pro Pro Ser Val Tyr
115 120

<210> 3
<211> 378
<212> DNA
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aaaccagatc atttattcac tagtctaata ggtggtacca acaaccgagc tccaggtgtt 180
cctgccagat tctcaggctc cctgattgga gacaaggctg ccctcaccat cacaggggca 240
cagactgagg atgaggcaat atatttctgt gctctatggt acagcaacca ttgggtgttc 300

IEC170038PCT-seq1

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tttcaagggc aattctgc 378

<210> 4

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<223> 4G10ÇáÁ´¿É±äÇøμÄ°±»ùĚáĐòÁĐ

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1 5 10 15

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Phe Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Ser
35 40 45

Leu Ile Gly Gly Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
85 90 95

His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro
100 105 110

Lys Ser Ser Pro Ser Val Thr Leu Phe Gln Gly Gln Phe Cys
115 120 125

IEC170038PCT-seq1

<210> 5

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<223> 4G10H1L1ÖØÁ´¿É±äÇøμÄ°ËËáÐðÁÐ

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ccaggacagg gactggagtg gatcgggctg attaatcctt acaacaacat caccaactac 180

aaccagaagt tcatgggaaa agcaaccttt acagtggaca agagcatttc cacagcctac 240

atggaactga gccggctgac ttcagacgat agcgggggtct atttttgtgc aaggctggat 300

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<210> 6

<211> 115

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<400> 6

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			20					25					30		

Thr	Met	Asn	Trp	Val	Lys	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			

Gly	Leu	Ile	Asn	Pro	Tyr	Asn	Asn	Ile	Thr	Asn	Tyr	Asn	Gln	Lys	Phe
	50					55					60				

IEC170038PCT-seq1

Met Gly Lys Ala Thr Phe Thr Val Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Thr Ser Asp Asp Ser Gly Val Tyr Phe Cys
85 90 95

Ala Arg Leu Asp Tyr Arg Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ala
115

<210> 7
<211> 327
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aagccaggcc aggcatttcg atccctgatc ggaggcacia acaatcgggc ttcttggtg 180
cccgaagat tctcaggaag cctgctgggg ggaaaagccg ctctgaccat tagtggcgct 240
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ggcgggggaa caaagctgac tgtgctg 327

<210> 8
<211> 109
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<223> 4G10H1L1ÇáÁ´¿É±äÇøμÄ°±»ùĚáĐòÁĐ

<400> 8

IEC170038PCT-seq1

Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1 5 10 15

Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Phe Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Ser
35 40 45

Leu Ile Gly Gly Thr Asn Asn Arg Ala Ser Trp Val Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly Ala
65 70 75 80

Gln Pro Glu Asp Glu Ala Glu Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
85 90 95

His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 9

<211> 345

<212> DNA

<213> Artificial

<220>

<223> 4G10H3L3ÖÖÁ´¿É±äÇøμÄ°ËËáÐðÁÐ

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cctggccagg ggctggagtg gatcggcctg attaaccctt acaacaacat cactaactac 180

gcacagaagt tccaggggag agtgaccttt acagtggaca ccagcatttc cacagcctac 240

atggaactgt cccggctgag atctgacgat acaggcgtgt acttctgcgc taggctggat 300

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IEC170038PCT-seq1

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<400> 10

Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
 20 25 30

Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Leu Ile Asn Pro Tyr Asn Asn Ile Thr Asn Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Phe Thr Val Asp Thr Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Gly Val Tyr Phe Cys
 85 90 95

Ala Arg Leu Asp Tyr Arg Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ala
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<210> 11
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IEC170038PCT-seq1

<220>

<223> 4G10H3L3ÇáÁ´¿É±äÇøμÄ°ËËáÐðÁÐ

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 aagccaggac aggctccccg gagtctgata ggaggcacca acaacaaggc cagctggaca 180
 cccgcacggt tcagcggcag cctgctgggc ggcaaggccg ctctgacaat tagcggagcc 240
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<400> 12

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 1 5 10 15

Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr Ser
 20 25 30

Asn Phe Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Ser
 35 40 45

Leu Ile Gly Gly Thr Asn Asn Lys Ala Ser Trp Thr Pro Ala Arg Phe
 50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly Ala
 65 70 75 80

IEC170038PCT-seq1

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
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His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 13
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cctggccagg ggctggagtg gatcggcctg attaaccctt acaacgacat cactaactac 180
gcacagaagt tccagggggag agtgaccttt acagtggaca ccagcatttc cacagcctac 240
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<213> Artificial

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<223> 4G10H4L3ÖÖÁ´¿É±äÇøμÄ°±»ùËáÐðÁÐ

<400> 14

Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
20 25 30

IEC170038PCT-seq1

Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Leu Ile Asn Pro Tyr Asn Asp Ile Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Phe Thr Val Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Gly Val Tyr Phe Cys
85 90 95

Ala Arg Leu Asp Tyr Arg Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ala
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<210> 15
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cctgagaagc gcctggaatg ggctcgctact atcagcggag gcgggcgata cacctactat 180
cctgactctg tcaaagggag attcacaatt agtcgggata acgccagaaa tactctgtat 240
ctgcagatgt ctagtctgcg gtccgaggat acagctctgt actattgtgc aaaccggtac 300
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IEC170038PCT-seq1

<212> PRT

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<223> 14C12ÖØÁ´¿É±äÇøμÄ°±»ùĖáĐòÁĐ

<400> 16

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ser Tyr
20 25 30

Asp Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Thr Ile Ser Gly Gly Gly Arg Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Asn Arg Tyr Gly Glu Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ala
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<210> 17

<211> 318

<212> DNA

<213> Artificial

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<223> 14C12ÇáÁ´¿É±äÇøμÄ°ĖĖáĐòÁĐ

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ggcaaaagcc ccaagaccct gatctaccgg gccaatagac tgggtggacgg ggtccccagc 180
agattctccg gatctggcag tgggcaggat tactccctga ccatcagctc cctggagtat 240
gaagacatgg gcatctacta ttgcctgcag tatgatgagt tccctctgac ctttggagca 300
ggcacaaaac tggaactg 318

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<400> 18

Asp Ile Lys Met Thr Gln Ser Pro Ser Ser Met Tyr Ala Ser Leu Gly
1 5 10 15

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

Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Lys Thr Leu Ile
35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Tyr
65 70 75 80

Glu Asp Met Gly Ile Tyr Tyr Cys Leu Gln Tyr Asp Glu Phe Pro Leu
85 90 95

IEC170038PCT-seq1

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
 100 105

<210> 19
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 ccaggaaagg gactggattg ggtcgctact atctcaggag gcgggagata cacctactat 180
 cctgacagcg tcaagggccg gttcacaatc tctagagata acagtaagaa caatctgtat 240
 ctgcagatga acagcctgag ggctgaggac accgcactgt actattgtgc caaccgctac 300
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ser Tyr
 20 25 30

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Asp Trp Val
 35 40 45

IEC170038PCT-seq1

Ala Thr Ile Ser Gly Gly Gly Arg Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Asn Leu Tyr
65 70 75 80

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

Ala Asn Arg Tyr Gly Glu Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
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<210> 21
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<212> DNA
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<223> 14C12H1L1ÇáÁ´¿É±äÇøμÄ°±»ùĚáĐòÁĐ

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Asp	Arg	Val	Thr	Phe	Thr	Cys	Arg	Ala	Ser	Gln	Asp	Ile	Asn	Thr	Tyr
			20					25					30		

Leu	Ser	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Lys	Ser	Pro	Lys	Thr	Leu	Ile
		35					40					45			

Tyr	Arg	Ala	Asn	Arg	Leu	Val	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				

Ser	Gly	Ser	Gly	Gln	Asp	Tyr	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75				80	

Glu	Asp	Met	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Tyr	Asp	Glu	Phe	Pro	Leu
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Thr	Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys
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<400> 23

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<212> PRT
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<400> 24

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Gly Gly Gly Ser
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<400> 25

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Ser Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Asn
20 25 30

Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Ala Gln Ile Arg Asn Lys Pro Tyr Asn Tyr Glu Thr Tyr Tyr Ser Ala
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Gly Val Tyr
85 90 95

IEC170038PCT-seq1

Tyr Cys Thr Ala Gln Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 26
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<223> 8D2H14L2μÄÖØÁ´¿É±äÇøμÄ°ËËáÐðÁÐ

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ccaggcaaaag gactggagtg gctggctcag atccggaaca agccctacaa ttatgaaaca 180
tactatagcg cctccgtgaa aggccggttc actattagta gagacgattc taagaacagc 240
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<400> 27

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1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Glu Asn Ile Tyr Gly Gly
20 25 30

IEC170038PCT-seq1

Leu Asn Trp Tyr Gln Arg Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Gly Ala Thr Asn Leu Ala Ser Gly Val Ser Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Asn Val Leu Arg Ser Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 28
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<212> DNA
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ggcaaattccc ctaagctgct gatctacggc gctaccaacc tggcatctgg ggtgtcctct 180
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<210> 29
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IEC170038PCT-seq1

<220>

<223> 14C12HCDR1

<400> 29

Gly Phe Ala Phe Ser Ser Tyr Asp
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<210> 30

<211> 8

<212> PRT

<213> Artificial

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<223> 14C12HCDR2

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<210> 31

<211> 11

<212> PRT

<213> Artificial

<220>

<223> 14C12HCDR3

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<210> 32

<211> 6

<212> PRT

<213> Artificial

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