

150313_0893_86150_PCT_Sequence_Listing_REB
SEQUENCE LISTING

<110> Capon, Daniel J.

<120> HYBRID IMMUNOGLOBULIN CONTAINING NON-PEPTIDYL LINKAGE

<130> 0893/86150-PCT/JPW/REB/PEA

<150> 61/953,650

<151> 2014-03-14

<160> 203

<170> PatentIn version 3.5

<210> 1

<211> 228

<212> PRT

<213> Artificial Sequence

<220>

<223> Human IgG1 Fc domain having the N-terminal sequence
CDKTHTCPPCPAPE

<400> 1

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
1 5 10 15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
65 70 75 80

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

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

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
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145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
210 215 220

Ser Pro Gly Lys
225

<210> 2
<211> 684
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding human IgG1 Fc domain having the N-terminal sequence
CDKTHTCPPCPAPE

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acatgcgtgg tgggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg 180
gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta caacagcacg 240
taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 300
aagtgaagg tctccaacaa agccctccca gccccatcg agaaaaccat ctccaaagcc 360
aaagggcagc cccgagaacc acaggtgtac accctgcccc catcccggga tgagctgacc 420
aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct atcccagcga catcgccgtg 480
gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac 540
tccgacggct ccttcttctt ctacagcaag ctcaccgtgg acaagagcag gtggcagcag 600
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<210> 3
<211> 251
<212> PRT
<213> Artificial Sequence

150313_0893_86150_PCT_Sequence_Listing_REB

<220>

<223> pre-Fc chimeric polypeptide having SHH signal peptide

<400> 3

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Asp Lys Thr His Thr Cys Pro Pro
20 25 30

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

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
50 55 60

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
65 70 75 80

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
85 90 95

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
100 105 110

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
115 120 125

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
130 135 140

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
145 150 155 160

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
165 170 175

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
180 185 190

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
195 200 205

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
210 215 220

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
225 230 235 240

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Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
245 250

<210> 4
<211> 785
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

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cacctgaact cctggggggg ccctcagtct tcctcttccc cccaaaaccc aaggacaccc    180
tcatgatctc ccggaccctt gaggtcacat gcgtgggtgg ggacgtgagc cacgaagacc    240
ctgaggtcaa gttcaactgg tacgtggacg gcgtggaggt gcataatgcc aagacaaagc    300
cgcgggagga gcagtacaac agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc    360
aggactggct gaatggcaag gagtacaagt gcaaggtctc caacaaagcc ctcccagccc    420
ccatcgagaa aaccatctcc aaagccaaag ggcagccccg agaaccacag gtgtacaccc    480
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gcttctatcc cagcgacatc gccgtggagt gggagagcaa tgggcagccg gagaacaact    600
acaagaccac gcctcccgtg ctggactccg acggctcctt cttcctctac agcaagctca    660
ccgtggacaa gagcagggtg cagcagggga acgtcttctc atgctccgtg atgcatgagg    720
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<210> 5
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<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having IFN signal peptide

<400> 5

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Lys Thr His Thr Cys Pro Pro
20 25 30

150313_0893_86150_PCT_Sequence_Listing_REB

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

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
50 55 60

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
65 70 75 80

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
85 90 95

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
100 105 110

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
115 120 125

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
130 135 140

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
145 150 155 160

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
165 170 175

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
180 185 190

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
195 200 205

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
210 215 220

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
225 230 235 240

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
245 250

<210> 6
<211> 785
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal
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<400> 6
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cacctgaact cctggggggg ccctcagtct tcctcttccc cccaaaaccc aaggacaccc      180
tcatgatctc ccggaccctt gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc      240
ctgaggtcaa gttcaactgg tacgtggacg gcgtggaggt gcataatgcc aagacaaagc      300
cgcgaggagga gcagtacaac agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc      360
aggactggct gaatggcaag gagtacaagt gcaagggtctc caacaaagcc ctcccagccc      420
ccatcgagaa aaccatctcc aaagccaaag ggcagccccg agaaccacag gtgtacaccc      480
tgcccccatc ccgggatgag ctgaccaaga accagggtcag cctgacctgc ctggtcaaag      540
gcttctatcc cagcgacatc gccgtggagt gggagagcaa tgggcagccg gagaacaact      600
acaagaccac gcctcccgtg ctggactccg acggctcctt cttcctctac agcaagctca      660
ccgtggacaa gagcaggtgg cagcagggga acgtcttctc atgctccgtg atgcatgagg      720
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ggccg                                         785

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<210> 7
<211> 245
<212> PRT
<213> Artificial Sequence

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<220>
<223> pre-Fc chimeric polypeptide having CETP signal peptide
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Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1           5           10          15

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Ala Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
20          25          30

```

```

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
35          40          45

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```

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
50          55          60

```

```

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
65          70          75          80

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Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
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85

90

95

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

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
115 120 125

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

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

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
180 185 190

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Pro Gly Lys
245

<210> 8

<211> 767

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 8

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cccatgcctg tgacaaaact cacacatgcc caccgtgccc agcacctgaa ctcttggggg 120

ggccctcagt cttcctcttc ccccaaaac ccaaggacac cctcatgac tcccggaccc 180

ctgaggtcac atgcgtggtg gtggacgtga gccacgaaga ccctgaggtc aagttcaact 240

ggtacgtgga cggcgtggag gtgcataatg ccaagacaaa gccgcgggag gagcagtaca 300

150313_0893_86150_PCT_Sequence_Listing_REB

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aggagtacaa gtgcaaggtc tccaacaaag ccctcccagc ccccatcgag aaaaccatct	420
ccaaagccaa agggcagccc cgagaaccac aggtgtacac cctgccccca tcccgggatg	480
agctgaccaa gaaccaggtc agcctgacct gcctgggtcaa aggcttctat cccagcgaca	540
tcgccgtgga gtgggagagc aatgggcagc cggagaacaa ctacaagacc acgcctcccg	600
tgctggactc cgacggctcc ttcttctct acagcaagct caccgtggac aagagcaggt	660
ggcagcaggg gaacgtcttc tcatgctccg tgatgcatga ggctctgcac aaccactaca	720
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<210> 9

<211> 222

<212> PRT

<213> Artificial Sequence

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<223> Human IgG1 Fc domain having the N-terminal sequence CPPCPAPE

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Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro
			20					25					30		

Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val
		35					40					45			

Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr
	50					55					60				

Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val
65					70					75					80

Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys
				85					90					95	

Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser
			100					105					110		

Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro
		115					120					125			

Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val
	130					135					140				

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Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
145 150 155 160

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
165 170 175

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
180 185 190

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
195 200 205

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215 220

<210> 10
<211> 666
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding human IgG1 Fc domain having the N-terminal sequence CPPCPAPE

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gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat 180
aatgccaaga caaagccgag ggaggagcag tacaacagca cgtaccgtgt ggtcagcgtc 240
ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac 300
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ccacaggtgt acaccctgcc cccatcccg gatgagctga ccaagaacca ggtcagcctg 420
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cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctccttcttc 540
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc 600
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ggtaaa 666

<210> 11
<211> 245
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having SHH signal peptide

150313_0893_86150_PCT_Sequence_Listing_REB

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Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
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Leu Val Cys Ser Gly Leu Ala Cys Pro Pro Cys Pro Ala Pro Glu Leu
20 25 30

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
35 40 45

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
50 55 60

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
65 70 75 80

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
85 90 95

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

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
115 120 125

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

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

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
180 185 190

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Pro Gly Lys

<210> 12
<211> 767
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

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ctgaggtcac atgctggtg gtggacgtga gccacgaaga ccctgaggtc aagttcaact    240
ggtacgtgga cggcgtggag gtgcataatg ccaagacaaa gccgcgggag gagcagtaca    300
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tgctggactc cgacggctcc ttcttctctt acagcaagct caccgtggac aagagcaggt    660
ggcagcaggg gaacgtcttc tcatgctccg tgatgcatga ggctctgcac aaccactaca    720
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<210> 13
<211> 245
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having IFN signal peptide

<400> 13

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

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
35 40 45

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
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50

55

60

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
65 70 75 80

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
85 90 95

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

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
115 120 125

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

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

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
180 185 190

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Pro Gly Lys
245

<210> 14

<211> 767

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 14

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tgctggactc cgacggctcc ttcttctct acagcaagct caccgtggac aagagcaggt 660
ggcagcaggg gaacgtcttc tcatgtctcg tgatgcatga ggctctgcac aaccactaca 720
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<210> 15
 <211> 239
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having CETP signal peptide

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 1 5 10 15

Ala Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
 20 25 30

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 35 40 45

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 50 55 60

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 65 70 75 80

Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 85 90 95

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 100 105 110

150313_0893_86150_PCT_Sequence_Listing_REB

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
115 120 125

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

Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
145 150 155 160

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
165 170 175

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
180 185 190

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
195 200 205

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
210 215 220

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
225 230 235

<210> 16
<211> 749
<212> DNA
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<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

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cccatgcctg cccaccgtgc ccagcacctg aactcctggg ggggccctca gtcttcctct 120
tccccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc acatgcgtgg 180
tggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg 240
aggtgcataa tgccaagaca aagccgcggg aggagcagta caacagcacg taccgtgtgg 300
tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac aagtgaagg 360
tctccaacaa agccctccca gccccatcg agaaaaccat ctccaaagcc aaagggcagc 420
cccgagaacc acaggtgtac accctgcccc catcccggga tgagctgacc aagaaccagg 480
tcagcctgac ctgcctggtc aaaggcttct atcccagcga catcgccgtg gagtgggaga 540
gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac tccgacggct 600
ccttcttcct ctacagcaag ctcaccgtgg acaagagcag gtggcagcag gggaacgtct 660

150313_0893_86150_PCT_Sequence_Listing_REB

tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacgcagaag agcctctccc 720
tgtctccggg taaatgactc gagcggccg 749

<210> 17
<211> 219
<212> PRT
<213> Artificial Sequence

<220>
<223> Human IgG1 Fc domain having the N-terminal sequence CPAPE

<400> 17

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
1 5 10 15

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
20 25 30

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
35 40 45

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
50 55 60

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
65 70 75 80

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
85 90 95

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
100 105 110

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
115 120 125

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
130 135 140

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
145 150 155 160

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
165 170 175

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 195 200 205

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 210 215

<210> 18
 <211> 657
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA encoding human IgG1 Fc domain having the N-terminal sequence
 CPAPE

<400> 18
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 gacaccctca tgatctcccg gacccttgag gtcacatgcg tgggtggtgga cgtgagccac 120
 gaagaccctg aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag 180
 acaaagccgc gggaggagca gtacaacagc acgtaccgtg tggtcagcgt cctcaccgtc 240
 ctgcaccagg actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc 300
 ccagccccca tcgagaaaac catctccaaa gccaaagggc agccccgaga accacaggtg 360
 tacaccctgc ccccatcccg ggatgagctg accaagaacc aggtcagcct gacctgcctg 420
 gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag 480
 aacaactaca agaccacgcc tcccgctgctg gactccgacg gtccttctt cctctacagc 540
 aagctcaccg tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg 600
 catgaggctc tgcacaacca ctacacgcag aagagcctct cctgtctcc gggtaaa 657

<210> 19
 <211> 242
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having SHH signal peptide

<400> 19

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
 1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Ala Pro Glu Leu Leu Gly Gly
 20 25 30

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 35 40 45

150313_0893_86150_PCT_Sequence_Listing_REB

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
50 55 60

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
65 70 75 80

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

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
100 105 110

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
115 120 125

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

Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
145 150 155 160

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
165 170 175

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
180 185 190

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
195 200 205

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
210 215 220

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
225 230 235 240

Gly Lys

<210> 20
<211> 758
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

<400> 20

150313_0893_86150_PCT_Sequence_Listing_REB

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tcttcctctt cccccaaaaa cccaaggaca ccctcatgat ctcccgacc cctgaggtca    180
catgctggtt ggtggacgtg agccacgaag accctgaggt caagttcaac tggtagctgg    240
acggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagtac aacagcacgt    300
accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc aaggagtaca    360
agtgaaggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc tccaaagcca    420
aagggcagcc ccgagaacca caggtgtaca cctgcccc atcccgggat gagctgacca    480
agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac atcgccgtgg    540
agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc gtgctggact    600
ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg tggcagcagg    660
ggaacgtctt ctcattgtcc gtgatgatg aggtctgca caaccactac acgcagaaga    720
gcctctccct gtctccgggt aaatgactcg agcggccg    758

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<210> 21
 <211> 242
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having IFN signal peptide
 <400> 21

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
 1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Ala Pro Glu Leu Leu Gly Gly
 20 25 30

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 35 40 45

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 50 55 60

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 65 70 75 80

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

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 100 105 110

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
115 120 125

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

Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
145 150 155 160

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
165 170 175

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
180 185 190

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
195 200 205

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
210 215 220

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
225 230 235 240

Gly Lys

<210> 22
<211> 758
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 22
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gctgcaagtc aagctgctct gtgggctgcc cagcacctga actcctgggg gggccctcag 120
tcttcctctt cccccaaaaa cccaaggaca ccctcatgat ctcccggacc cctgaggtca 180
catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac tggtacgtgg 240
acggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagtac aacagcacgt 300
accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc aaggagtaca 360
agtgcaaggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc tccaaagcca 420
aagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgggat gagctgacca 480

150313_0893_86150_PCT_Sequence_Listing_REB

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agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac atcgccgtgg      540
agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc gtgctggact      600
ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg tggcagcagg      660
ggaacgtctt ctcattgctcc gtgatgcatg aggctctgca caaccactac acgcagaaga      720
gcctctccct gtctccgggt aaatgactcg agcggccg      758
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<210> 23
 <211> 236
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having CETP signal peptide
 <400> 23

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
 1 5 10 15

Ala Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
 20 25 30

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

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

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 65 70 75 80

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 85 90 95

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 100 105 110

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 115 120 125

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

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 145 150 155 160

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
180 185 190

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
195 200 205

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
210 215 220

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
225 230 235

<210> 24
<211> 740
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 24
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cccatgcctg ccagcacct gaactcctgg gggggccctc agtcttcctc ttccccccaa 120
aacccaagga caccctcatg atctcccga cccctgaggt cacatgcgtg gtggtggacg 180
tgagccacga agaccctgag gtcaagttca actggtacgt ggacggcgtg gaggtgcata 240
atgccaagac aaagccgcgg gaggagcagt acaacagcac gtaccgtgtg gtcagcgtcc 300
tcaccgtcct gcaccaggac tggctgaatg gcaaggagta caagtgaag gtctccaaca 360
aagccctccc agccccatc gagaaaacca tctccaaagc caaagggcag ccccgagaac 420
cacaggtgta caccctgccc ccatcccggg atgagctgac caagaaccag gtcagcctga 480
cctgcctggt caaaggcttc tatcccagcg acatcgccgt ggagtgggag agcaatgggc 540
agccggagaa caactacaag accacgcctc ccgtgctgga ctccgacggc tccttcttcc 600
tctacagcaa gctcaccgtg gacaagagca ggtggcagca ggggaacgtc ttctcatgct 660
ccgtgatgca tgaggctctg cacaaccact acacgcagaa gagcctctcc ctgtctccgg 720
gtaaatgact cgagcggccg 740

<210> 25
<211> 225
<212> PRT
<213> Artificial Sequence

<220>
<223> Human IgG2 Fc domain having the N-terminal sequence CCVECPCPAPE

150313_0893_86150_PCT_Sequence_Listing_REB

<400> 25

Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro
1 5 10 15

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
20 25 30

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
35 40 45

Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
50 55 60

Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val
65 70 75 80

Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu
85 90 95

Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys
100 105 110

Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
115 120 125

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
130 135 140

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
145 150 155 160

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu
165 170 175

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
180 185 190

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
195 200 205

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
210 215 220

Lys
225

150313_0893_86150_PCT_Sequence_Listing_REB

<210> 26
 <211> 675
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA encoding human IgG2 Fc domain having the N-terminal sequence
 CCVECPPCPAPE

<400> 26
 tgttgtgtcg agtgtcccacc gtgtcccagca ccacctgtgg caggaccgtc agtcttcctc 60
 ttccccccaa aaccaagga caccctcatg atctcccgga cccctgaggt cacgtgcgtg 120
 gtggtggacg tgagccacga agaccccgag gtccagttca actggtacgt ggacggcgtg 180
 gaggtgcata atgccaagac aaagccacgg gaggagcagt tcaacagcac gttccgtgtg 240
 gtcagcgtcc tcaccgttgt gcaccaggac tggctgaacg gcaaggagta caagtgcaag 300
 gtctccaaca aaggcctccc agcccccatc gagaaaacca tctccaaaac caaagggcag 360
 ccccgagaac cacaggtgta caccctgccc ccattccggg aggagatgac caagaaccag 420
 gtcagcctga cctgcctggt caaaggcttc taccacagcg acatcgccgt ggagtgggag 480
 agcaatgggc agccggagaa caactacaag accacacctc ccatgctgga ctccgacggc 540
 tcctttcttc tctacagcaa gtcaccgtg gacaagagca ggtggcagca ggggaacgtc 600
 ttctcatgct ccgtgatgca tgaggctctg cacaaccact acacgcagaa gagcctctcc 660
 ctgtctccgg gtaaa 675

<210> 27
 <211> 248
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having SHH signal peptide

<400> 27

Met	Leu	Leu	Leu	Ala	Arg	Cys	Leu	Leu	Leu	Val	Leu	Val	Ser	Ser	Leu
1				5					10					15	
Leu	Val	Cys	Ser	Gly	Leu	Ala	Cys	Cys	Val	Glu	Cys	Pro	Pro	Cys	Pro
			20					25					30		
Ala	Pro	Pro	Val	Ala	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro
			35				40					45			
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val
	50					55					60				
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val
65					70					75					80

150313_0893_86150_PCT_Sequence_Listing_REB

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
85 90 95

Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln
100 105 110

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
115 120 125

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

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
145 150 155 160

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
165 170 175

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
180 185 190

Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
195 200 205

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
210 215 220

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
225 230 235 240

Ser Leu Ser Leu Ser Pro Gly Lys
245

<210> 28

<211> 776

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

<400> 28

aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct 60

cgctgctggt atgctcgga ctggcgtgtt gtgtcgagtg cccaccgtgc ccagcaccac 120

ctgtggcagg accgtcagtc ttctcttcc ccccaaaacc caaggacacc ctcatgatct 180

cccgacccc tgaggtcacg tgcgtggtgg tggacgtgag ccacgaagac cccgaggtcc 240

150313_0893_86150_PCT_Sequence_Listing_REB

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agttcaactg gtacgtggac ggcgtggagg tgcataatgc caagacaaag ccacgggagg      300
agcagttcaa cagcacgttc cgtgtggtca gcgtcctcac cgttgtgcac caggactggc      360
tgaacggcaa ggagtacaag tgcaaggtct ccaacaaagg cctcccagcc cccatcgaga      420
aaaccatctc caaaaccaa gggcagcccc gagaaccaca ggtgtacacc ctgcccccat      480
cccgggagga gatgaccaag aaccagggtca gcctgacctg cctgggtcaaa ggcttctacc      540
ccagcgacat cgccgtggag tgggagagca atgggcagcc ggagaacaac tacaagacca      600
cacctcccat gctggactcc gacggctcct tcttcctcta cagcaagctc accgtggaca      660
agagcagggtg gcagcagggg aacgtcttct catgctccgt gatgcatgag gctctgcaca      720
accactacac gcagaagagc ctctccctgt ctccgggtaa atgactcgag cggccg      776

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<210> 29
 <211> 248
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having IFN signal peptide
 <400> 29

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
 1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Cys Val Glu Cys Pro Pro Cys Pro
 20 25 30

Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 35 40 45

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 50 55 60

Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
 65 70 75 80

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 85 90 95

Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln
 100 105 110

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
 115 120 125

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro
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130

135

140

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
145 150 155 160

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
165 170 175

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
180 185 190

Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
195 200 205

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
210 215 220

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
225 230 235 240

Ser Leu Ser Leu Ser Pro Gly Lys
245

<210> 30

<211> 776

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 30

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gctgcaagtc aagctgctct gtgggctggt gtgtcgagtg cccaccgtgc ccagcaccac	120
ctgtggcagg accgtcagtc ttctctctcc ccccaaaacc caaggacacc ctcatgatct	180
cccggacccc tgaggtcacg tgcgtggtgg tggacgtgag ccacgaagac cccgaggtcc	240
agttcaactg gtacgtggac ggcgtggagg tgcataatgc caagacaaag ccacgggagg	300
agcagttcaa cagcacgttc cgtgtggtca gcgtcctcac cgttgtgcac caggactggc	360
tgaacggcaa ggagtacaag tgcaaggtct ccaacaaagg cctcccagcc cccatcgaga	420
aaaccatctc caaaacaaa gggcagcccc gagaaccaca ggtgtacacc ctgcccccat	480
cccgggagga gatgaccaag aaccagggtca gcctgacctg cctgggtcaaa ggcttctacc	540
ccagcgacat cgccgtggag tgggagagca atgggcagcc ggagaacaac tacaagacca	600
cacctcccat gctggactcc gacggctcct tcttctctca cagcaagctc accgtggaca	660

150313_0893_86150_PCT_Sequence_Listing_REB

agagcaggtg gcagcagggg aacgtcttct catgctccgt gatgcatgag gctctgcaca 720
accactacac gcagaagagc ctctccctgt ctccgggtaa atgactcgag cggccg 776

<210> 31
<211> 242
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having CETP signal peptide

<400> 31

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly
20 25 30

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
35 40 45

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
50 55 60

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
65 70 75 80

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg
85 90 95

Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys
100 105 110

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu
115 120 125

Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
130 135 140

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
145 150 155 160

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
165 170 175

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met
180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
195 200 205

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
210 215 220

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
225 230 235 240

Gly Lys

<210> 32
<211> 758
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 32
aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg 60
cccatgcctg ttgtgtcgag tgcccaccgt gccacgacc acctgtggca ggaccgtcag 120
tcttcctctt cccccaaaaa cccaaggaca ccctcatgat ctcccggacc cctgagggtca 180
cgtgcgtggt ggtggacgtg agccacgaag accccgaggt ccagttcaac tggtagctgg 240
acggcgtgga ggtgcataat gccaaagaaa agccacggga ggagcagttc aacagcacgt 300
tccgtgtggt cagcgtcctc accgttgtgc accaggactg gctgaacggc aaggagtaca 360
agtgaagggt ctccaacaaa ggcctcccag ccccatcga gaaaaccatc tccaaaacca 420
aagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgggag gagatgacca 480
agaaccaggt cagcctgacc tgcttggtca aaggcttcta cccagcgac atcgccgtgg 540
agtgggagag caatgggcag ccggagaaca actacaagac cacacctccc atgctggact 600
ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg tggcagcagg 660
ggaacgtctt ctcatgctcc gtgatgcatg aggcctctgca caaccactac acgcagaaga 720
gcctctccct gtctccgggt aaatgactcg agcggccg 758

<210> 33
<211> 224
<212> PRT
<213> Artificial Sequence

<220>
<223> Human IgG2 Fc domain having the N-terminal sequence CVECPPCAPE

<400> 33

150313_0893_86150_PCT_Sequence_Listing_REB

Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser
1 5 10 15

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
20 25 30

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
35 40 45

Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
50 55 60

Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val
65 70 75 80

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

Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr
100 105 110

Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
115 120 125

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
130 135 140

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
145 150 155 160

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp
165 170 175

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
180 185 190

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
195 200 205

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215 220

<210> 34

<211> 672

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding human IgG2 Fc domain having the N-terminal sequence

CVECPCPAPE

```

<400> 34
tgtgtcgagt gccaccgtg cccagcacca cctgtggcag gaccgtcagt cttcctcttc      60
ccccaaaaac ccaaggacac cctcatgata tcccggaccc ctgaggtcac gtgcgtgggtg    120
gtggacgtga gccacgaaga ccccgaggtc cagttcaact ggtacgtgga cggcgtggag     180
gtgcataatg ccaagacaaa gccacgggag gagcagttca acagcacgtt ccgtgtggtc     240
agcgtcctca ccgttgtgca ccaggactgg ctgaacggca aggagtacaa gtgcaaggtc     300
tccaacaaag gcctcccagc ccccatcgag aaaaccatct ccaaaaccaa agggcagccc     360
cgagaaccac aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggtc     420
agcctgacct gcctgggtcaa aggccttctac cccagcgaca tcgccgtgga gtgggagagc     480
aatgggcagc cggagaacaa ctacaagacc acacctccca tgctggactc cgacggctcc     540
ttcttctctt acagcaagct caccgtggac aagagcaggt ggcagcaggg gaacgtcttc     600
tcatgctccg tgatgcatga ggctctgcac aaccactaca cgcagaagag cctctccctg     660
tctccgggta aa                                                              672

```

```

<210> 35
<211> 247
<212> PRT
<213> Artificial Sequence

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<220>
<223> pre-Fc chimeric polypeptide having SHH signal peptide

```

```

<400> 35

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```

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1           5           10          15

```

```

Leu Val Cys Ser Gly Leu Ala Cys Val Glu Cys Pro Pro Cys Pro Ala
                20           25           30

```

```

Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
          35           40           45

```

```

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
50           55           60

```

```

Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
65           70           75           80

```

```

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                85           90           95

```

```

Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp

```

150313_0893_86150_PCT_Sequence_Listing_REB

100

105

110

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
115 120 125

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

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
145 150 155 160

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
165 170 175

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
180 185 190

Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
195 200 205

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
210 215 220

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
225 230 235 240

Leu Ser Leu Ser Pro Gly Lys
245

<210> 36
<211> 773
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

<400> 36
aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct 60
cgctgctggt atgctcgga ctggcgtgtg tcgagtgcc accgtgcca gcaccacctg 120
tggcaggacc gtcagtcttc ctcttcccc caaaacccaa ggacaccctc atgatctccc 180
ggaccctga ggtcacgtgc gtggtggtgg acgtgagcca cgaagacccc gaggtccagt 240
tcaactggta cgtggacggc gtggaggtgc ataatgccaa gacaaagcca cgggaggagc 300
agttcaacag cacgttccgt gtggtcagcg tcctcaccgt tgtgcaccag gactggctga 360
acggcaagga gtacaagtgc aaggtctcca acaaaggcct cccagcccc atcgagaaaa 420

150313_0893_86150_PCT_Sequence_Listing_REB

```
ccatctccaa aaccaaaggg cagccccgag aaccacaggt gtacaccctg ccccatccc 480
gggaggagat gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc ttctacccca 540
gcgacatcgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac aagaccacac 600
ctcccatgct ggactccgac ggctccttct tcctctacag caagctcacc gtggacaaga 660
gcaggtggca gcaggggaac gtcttctcat gctccgtgat gcatgaggct ctgcacaacc 720
actacacgca gaagagcctc tcctgtctc cgggtaaatg actcgagcgg ccg 773
```

<210> 37
 <211> 247
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having IFN signal peptide

<400> 37

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
 1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Val Glu Cys Pro Pro Cys Pro Ala
 20 25 30

Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 35 40 45

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 50 55 60

Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 65 70 75 80

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 85 90 95

Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp
 100 105 110

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 115 120 125

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

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 145 150 155 160

150313_0893_86150_PCT_Sequence_Listing_REB

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
165 170 175

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
180 185 190

Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
195 200 205

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
210 215 220

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
225 230 235 240

Leu Ser Leu Ser Pro Gly Lys
245

<210> 38
<211> 773
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 38
aagcttgaat tcccaccatg gccttgacct ttgctttact ggtggccctc ctggtgctca 60
gctgcaagtc aagctgctct gtgggctgtg tcgagtgcc accgtgccca gcaccacctg 120
tggcaggacc gtcagtcttc ctcttcccc caaaacccaa ggacaccctc atgatctccc 180
ggaccctga ggtcacgtgc gtggtggtgg acgtgagcca cgaagacccc gaggtccagt 240
tcaactggta cgtggacggc gtggaggtgc ataatgcca gacaaagcca cgggaggagc 300
agttcaacag cacgttccgt gtggtcagcg tcctcaccgt tgtgcaccag gactggctga 360
acggcaagga gtacaagtgc aaggtctcca acaaaggcct ccagccccc atcgagaaaa 420
ccatctccaa aaccaaaggg cagccccgag aaccacaggt gtacaccctg ccccatccc 480
gggaggagat gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc ttctaccca 540
gcgacatcgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac aagaccacac 600
ctcccatgct ggactccgac ggctccttct tcctctacag caagctcacc gtggacaaga 660
gcaggtggca gcaggggaac gtcttctcat gctccgtgat gcatgaggct ctgcacaacc 720
actacacgca gaagagcctc tccctgtctc cgggtaaattg actcgagcgg ccg 773

<210> 39
<211> 241

150313_0893_86150_PCT_Sequence_Listing_REB

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-Fc chimeric polypeptide having CETP signal peptide

<400> 39

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro
20 25 30

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
35 40 45

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
50 55 60

Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
65 70 75 80

Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val
85 90 95

Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu
100 105 110

Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys
115 120 125

Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
130 135 140

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
145 150 155 160

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
165 170 175

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu
180 185 190

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
195 200 205

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
210 215 220

150313_0893_86150_PCT_Sequence_Listing_REB

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 225 230 235 240

Lys

<210> 40
 <211> 755
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 40
 aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg 60
 cccatgcctg tgtcagagtgc ccaccgtgcc cagcaccacc tgtggcagga ccgtcagtct 120
 tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt gaggtcacgt 180
 gcgtggtggt ggacgtgagc cacgaagacc ccgaggtcca gttcaactgg tacgtggacg 240
 gcgtggagggt gcataatgcc aagacaaagc cacgggagga gcagttcaac agcacgttcc 300
 gtgtggtcag cgtcctcacc gttgtgcacc aggactggct gaacggcaag gagtacaagt 360
 gcaaggtctc caacaaaggc ctcccagccc ccatcgagaa aaccatctcc aaaaccaaag 420
 ggcagccccc agaaccacag gtgtacaccc tgcccccatc ccgggaggag atgaccaaga 480
 accaggtcag cctgacctgc ctgggtcaaag gcttctaccc cagcgacatc gccgtggagt 540
 gggagagcaa tgggcagccg gagaacaact acaagaccac acctcccatg ctggactccg 600
 acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg cagcagggga 660
 acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg cagaagagcc 720
 tctccctgtc tccgggtaaa tgactcgagc ggccc 755

<210> 41
 <211> 221
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Human IgG2 Fc domain having the N-terminal sequence CPPCPAPE

<400> 41

Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu
 1 5 10 15

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
 20 25 30

150313_0893_86150_PCT_Sequence_Listing_REB

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln
35 40 45

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
50 55 60

Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu
65 70 75 80

Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
85 90 95

Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
100 105 110

Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
115 120 125

Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
130 135 140

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
145 150 155 160

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly
165 170 175

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
180 185 190

Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
195 200 205

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215 220

<210> 42

<211> 663

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding human IgG2 Fc domain having the N-terminal sequence CPPCPAPE

<400> 42

tgcccaccgt gccagcacc acctgtggca ggaccgtcag tcttcctctt ccccccaaaa 60

cccaaggaca ccctcatgat ctcccgacc cctgaggtca cgtgcgtggt ggtggacgtg 120

150313_0893_86150_PCT_Sequence_Listing_REB

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agccacgaag accccgaggt ccagttcaac tggtagctgg acggcgtgga ggtgcataat 180
gccaagacaa agccacggga ggagcagttc aacagcacgt tccgtgtggt cagcgtcctc 240
accgttgtgc accaggactg gctgaacggc aaggagtaca agtgcaaggt ctccaacaaa 300
ggcctcccag ccccatcga gaaaaccatc tccaaaacca aagggcagcc ccgagaacca 360
caggtgtaca ccttgccccc atcccgggag gagatgacca agaaccaggt cagcctgacc 420
tgcttggtca aaggcttcta cccagcgcac atcgccgtgg agtgggagag caatgggcag 480
ccggagaaca actacaagac cacacctccc atgctggact ccgacggctc cttcttcctc 540
tacagcaagc tcaccgtgga caagagcagg tggcagcagg ggaacgtctt ctcattgctcc 600
gtgatgcatg aggctctgca caaccactac acgcagaaga gcctctccct gtctccgggt 660
aaa 663

```

<210> 43
 <211> 244
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having SHH signal peptide
 <400> 43

```

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1      5      10      15

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

Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
35      40      45

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
50      55      60

His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu
65      70      75      80

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr
85      90      95

Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn
100     105     110

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro
115     120     125

```

150313_0893_86150_PCT_Sequence_Listing_REB

Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln
130 135 140

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
145 150 155 160

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
165 170 175

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
180 185 190

Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
195 200 205

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
210 215 220

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
225 230 235 240

Ser Pro Gly Lys

<210> 44
<211> 764
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

<400> 44
aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct 60
cgctgctggt atgctcggga ctggcgtgcc caccgtgccc agcaccacct gtggcaggac 120
cgtcagtctt cctcttcccc caaaaccca aggacaccct catgatctcc cggaccctg 180
aggtcacgtg cgtggtggtg gacgtgagcc acgaagaccc cgaggtccag ttcaactggt 240
acgtggacgg cgtggaggtg cataatgcca agacaaagcc acgggaggag cagttcaaca 300
gcacgttccg tgtggtcagc gtcctcaccg ttgtgcacca ggactggctg aacggcaagg 360
agtacaagtg caaggtctcc aacaaaggcc tcccagcccc catcgagaaa accatctcca 420
aaaccaaagg gcagccccga gaaccacagg tgtacaccct gccccatcc cgggaggaga 480
tgaccaagaa ccaggtcagc ctgacctgcc tgggtcaaagg cttctacccc agcgacatcg 540
ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccaca cctcccatgc 600
tggaactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag agcaggtggc 660

150313_0893_86150_PCT_Sequence_Listing_REB

agcaggggaa cgtcttctca tgctccgtga tgcattgaggc tctgcacaac cactacacgc 720
agaagagcct ctccctgtct ccgggtaaat gactcgagcg gccg 764

<210> 45
<211> 244
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having IFN signal peptide
<400> 45

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Pro Cys Pro Ala Pro Pro Val
20 25 30

Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
35 40 45

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
50 55 60

His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu
65 70 75 80

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr
85 90 95

Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn
100 105 110

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro
115 120 125

Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln
130 135 140

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
145 150 155 160

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
165 170 175

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 195 200 205

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 210 215 220

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 225 230 235 240

Ser Pro Gly Lys

<210> 46
 <211> 764
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 46
 aagcttgaat tcccaccatg gccttgacct ttgctttact ggtggccctc ctggtgctca 60
 gctgcaagtc aagctgctct gtgggctgcc caccgtgccc agcaccacct gtggcaggac 120
 cgtcagtcctt cctcttcccc ccaaaaccca aggacaccct catgatctcc cggaccacctg 180
 aggtcacgtg cgtgggtggtg gacgtgagcc acgaagacct cgagggtccag ttcaactggt 240
 acgtggacgg cgtggagggtg cataatgcca agacaaagcc acgggaggag cagttcaaca 300
 gcacgttccg tgtggtcagc gtcctcaccg ttgtgcacca ggactggctg aacggcaagg 360
 agtacaagtg caaggtctcc aacaaaggcc tcccagcccc catcgagaaa accatctcca 420
 aaaccaaagg gcagccccga gaaccacagg tgtacaccct gccccatcc cgggaggaga 480
 tgaccaagaa ccaggtcagc ctgacctgcc tgggtcaaagg cttctacccc agcgacatcg 540
 ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccaca cctcccatgc 600
 tggactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag agcaggtggc 660
 agcaggggaa cgtcttctca tgctccgtga tgcattgaggc tctgcacaac cactacacgc 720
 agaagagcct ctccctgtct ccgggtaaat gactcgagcg gccg 764

<210> 47
 <211> 238
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having CETP signal peptide

<400> 47

Met 1	Leu	Ala	Ala	Thr 5	Val	Leu	Thr	Leu	Ala 10	Leu	Leu	Gly	Asn	Ala 15	His
Ala	Cys	Pro	Pro 20	Cys	Pro	Ala	Pro	Pro 25	Val	Ala	Gly	Pro	Ser 30	Val	Phe
Leu	Phe	Pro 35	Pro	Lys	Pro	Lys	Asp 40	Thr	Leu	Met	Ile	Ser 45	Arg	Thr	Pro
Glu	Val 50	Thr	Cys	Val	Val	Val 55	Asp	Val	Ser	His	Glu 60	Asp	Pro	Glu	Val
Gln 65	Phe	Asn	Trp	Tyr	Val 70	Asp	Gly	Val	Glu	Val 75	His	Asn	Ala	Lys	Thr 80
Lys	Pro	Arg	Glu	Glu 85	Gln	Phe	Asn	Ser	Thr 90	Phe	Arg	Val	Val	Ser 95	Val
Leu	Thr	Val	Val 100	His	Gln	Asp	Trp	Leu 105	Asn	Gly	Lys	Glu	Tyr 110	Lys	Cys
Lys	Val	Ser 115	Asn	Lys	Gly	Leu	Pro 120	Ala	Pro	Ile	Glu	Lys 125	Thr	Ile	Ser
Lys	Thr 130	Lys	Gly	Gln	Pro	Arg 135	Glu	Pro	Gln	Val	Tyr 140	Thr	Leu	Pro	Pro
Ser 145	Arg	Glu	Glu	Met	Thr 150	Lys	Asn	Gln	Val	Ser 155	Leu	Thr	Cys	Leu	Val 160
Lys	Gly	Phe	Tyr	Pro 165	Ser	Asp	Ile	Ala	Val 170	Glu	Trp	Glu	Ser	Asn 175	Gly
Gln	Pro	Glu	Asn 180	Asn	Tyr	Lys	Thr	Thr 185	Pro	Pro	Met	Leu	Asp 190	Ser	Asp
Gly	Ser	Phe 195	Phe	Leu	Tyr	Ser	Lys 200	Leu	Thr	Val	Asp	Lys 205	Ser	Arg	Trp
Gln	Gln 210	Gly	Asn	Val	Phe	Ser 215	Cys	Ser	Val	Met	His 220	Glu	Ala	Leu	His
Asn 225	His	Tyr	Thr	Gln	Lys 230	Ser	Leu	Ser	Leu	Ser 235	Pro	Gly	Lys		

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150313_0893_86150_PCT_Sequence_Listing_REB

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 48

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aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg      60
cccatgcctg cccaccgtgc ccagcaccac ctgtggcagg accgtcagtc ttcctcttcc      120
ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcacg tgcgtggtgg      180
tggaactgag ccacgaagac cccgaggtcc agttcaactg gtacgtggac ggcgtggagg      240
tgcataatgc caagacaaag ccacgggagg agcagttcaa cagcacgttc cgtgtggtca      300
gcgtcctcac cgttgtgcac caggactggc tgaacggcaa ggagtacaag tgcaaggtct      360
ccaacaaagg cctcccagcc cccatcgaga aaaccatctc caaaaccaa gggcagcccc      420
gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag aaccaggtca      480
gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgccgtggag tgggagagca      540
atgggcagcc ggagaacaac tacaagacca cacctcccat gctggactcc gacggctcct      600
tcttcctcta cagcaagctc accgtggaca agagcaggtg gcagcagggg aacgtcttct      660
catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc ctctccctgt      720
ctccgggtaa atgactcgag cggccg      746
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<210> 49

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Human IgG2 Fc domain having the N-terminal sequence CPAPE

<400> 49

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Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro
1           5           10          15

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
          20          25          30

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp
          35          40          45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
          50          55          60

Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val
65          70          75          80
```

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His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
85 90 95

Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly
100 105 110

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
115 120 125

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
145 150 155 160

Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe
165 170 175

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
180 185 190

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
195 200 205

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

<210> 50
<211> 654
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding human IgG2 Fc domain having the N-terminal sequence
CPAPE

<400> 50
tgcccagcac cacctgtggc aggaccgtca gtcttcctct tccccccaaa acccaaggac 60
accctcatga tctcccgac ccctgaggtc acgtgctgg tgggtggacgt gagccacgaa 120
gaccccgagg tccagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca 180
aagccacggg aggagcagtt caacagcacg ttccgtgtgg tcagcgtcct caccgttgtg 240
caccaggact ggctgaacgg caaggagtac aagtgaagg tctccaacaa aggcctccca 300
gccccatcg agaaaaccat ctccaaaacc aaagggcagc cccgagaacc acaggtgtac 360
accctgcccc catcccggga ggagatgacc aagaaccagg tcagcctgac ctgcctggtc 420
aaaggcttct accccagcga catcgccgtg gagtgggaga gcaatgggca gccggagAAC 480

150313_0893_86150_PCT_Sequence_Listing_REB

aactacaaga ccacacctcc catgctggac tccgacggct ctttcttcct ctacagcaag 540
ctcaccgtgg acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat 600
gaggctctgc acaaccacta cacgcagaag agcctctccc tgtctccggg taaa 654

<210> 51
<211> 241
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having SHH signal peptide

<400> 51

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

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

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
35 40 45

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
50 55 60

Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
65 70 75 80

Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val
85 90 95

Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu
100 105 110

Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys
115 120 125

Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
130 135 140

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
145 150 155 160

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
165 170 175

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu
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180

185

190

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
195 200 205

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
210 215 220

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
225 230 235 240

Lys

<210> 52
<211> 755
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

<400> 52
aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct 60
cgctgctggt atgctcggga ctggcgtgcc cagcaccacc tgtggcagga ccgtcagtct 120
tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt gaggtcacgt 180
gcgtggtggt ggacgtgagc cacgaagacc ccgaggtcca gttcaactgg tacgtggacg 240
gcgtggaggt gcataatgcc aagacaaagc cacgggagga gcagttcaac agcacgttcc 300
gtgtggtcag cgtcctcacc gttgtgcacc aggactggct gaacggcaag gagtacaagt 360
gcaaggtctc caacaaaggc ctcccagccc ccatcgagaa aaccatctcc aaaaccaaag 420
ggcagccccg agaaccacag gtgtacaccc tgccccatc ccgggaggag atgaccaaga 480
accaggtcag cctgacctgc ctgggtcaaag gcttctaccc cagcgacatc gccgtggagt 540
gggagagcaa tgggcagccg gagaacaact acaagaccac acctcccatg ctggactccg 600
acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg cagcagggga 660
acgtcttctc atgctccgtg atgcatgagg ctctgcacaa cactacacg cagaagagcc 720
tctccctgtc tccgggtaaa tgactcgagc ggccg 755

<210> 53
<211> 241
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having IFN signal peptide

150313_0893_86150_PCT_Sequence_Listing_REB

<400> 53

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Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1      5      10      15

Lys Ser Ser Cys Ser Val Gly Cys Pro Ala Pro Pro Val Ala Gly Pro
      20      25      30

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
      35      40      45

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
      50      55      60

Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
65      70      75      80

Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val
      85      90      95

Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu
      100      105      110

Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys
      115      120      125

Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
      130      135      140

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
145      150      155      160

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
      165      170      175

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu
      180      185      190

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
      195      200      205

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
      210      215      220

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
225      230      235      240

```

150313_0893_86150_PCT_Sequence_Listing_REB

Lys

<210> 54
<211> 755
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 54
aagcttgaat tcccacatg gccttgacct ttgctttact ggtggccctc ctggtgctca 60
gctgcaagtc aagctgctct gtgggctgcc cagcaccacc tgtggcagga ccgtcagtct 120
tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt gaggtcacgt 180
gcgtggtggt ggacgtgagc cacgaagacc ccgaggtcca gttcaactgg tacgtggacg 240
gcgtggaggt gcataatgcc aagacaaagc cacgggagga gcagttcaac agcacgttcc 300
gtgtggtcag cgtcctcacc gttgtgcacc aggactggct gaacggcaag gagtacaagt 360
gcaaggtctc caacaaaggc ctcccagccc ccatcgagaa aaccatctcc aaaaccaaag 420
ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag atgaccaaga 480
accaggtcag cctgacctgc ctggtcaaag gcttctaccc cagcgacatc gccgtggagt 540
gggagagcaa tgggcagccg gagaacaact acaagaccac acctcccatg ctggactccg 600
acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg cagcagggga 660
acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg cagaagagcc 720
tctccctgtc tccgggtaaa tgactcgagc ggccg 755

<210> 55
<211> 235
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having CETP signal peptide

<400> 55

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro
20 25 30

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

150313_0893_86150_PCT_Sequence_Listing_REB

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn
50 55 60

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
65 70 75 80

Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val
85 90 95

Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
100 105 110

Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys
115 120 125

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

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
145 150 155 160

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
165 170 175

Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe
180 185 190

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
195 200 205

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
210 215 220

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
225 230 235

<210> 56

<211> 737

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 56

aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg 60

cccatgcctg cccagcacca cctgtggcag gaccgtcagt cttcctcttc ccccaaaac 120

ccaaggacac cctcatgatc tcccggaccc ctgaggtcac gtgcgtggtg gtggacgtga 180

150313_0893_86150_PCT_Sequence_Listing_REB

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gccacgaaga ccccgaggtc cagttcaact ggtacgtgga cggcgtggag gtgcataatg      240
ccaagacaaa gccacgggag gagcagttca acagcacggt ccggtgtggtc agcgtcctca      300
ccgttgtgca ccaggactgg ctgaacggca aggagtacaa gtgcaaggtc tccaacaaag      360
gcctcccagc ccccatcgag aaaaccatct ccaaaaccaa agggcagccc cgagaaccac      420
aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggtc agcctgacct      480
gcctgggtcaa aggccttctac cccagcgaca tcgccgtgga gtgggagagc aatgggcagc      540
cggagaacaa ctacaagacc acacctccca tgctggactc cgacggctcc ttcttcctct      600
acagcaagct caccgtggac aagagcaggt ggcagcaggg gaacgtcttc tcatgctccg      660
tgatgcatga ggctctgcac aaccactaca cgcagaagag cctctccctg tctccgggta      720
aatgactcga gcggccg                                     737

```

<210> 57
 <211> 267
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Human IgG3 Fc domain having the N-terminal sequence
 (CPRCPEPKSDTPPP)3-CPRCPAPE

<400> 57

Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys
 1 5 10 15

Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro
 20 25 30

Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg
 35 40 45

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 50 55 60

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 65 70 75 80

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys
 85 90 95

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 100 105 110

Glu Glu Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val
 115 120 125

150313_0893_86150_PCT_Sequence_Listing_REB

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
130 135 140

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys
145 150 155 160

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
165 170 175

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
180 185 190

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro Glu
195 200 205

Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe
210 215 220

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
225 230 235 240

Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe
245 250 255

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
260 265

<210> 58
<211> 801
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding human IgG3 Fc domain having the N-terminal sequence
(CPRCPEPKSDTPPP)3-CPRCPAPE

<400> 58
tgcccacggt gccagagcc caaatcttgt gacacacctc ccccggtgcc acggtgcca 60
gagcccaaat cttgtgacac acctcccca tgcccacggt gccagagcc caaatcttgt 120
gacacacctc ccccggtgcc aaggtgcca gcacctgaac tcctgggagg accgtcagtc 180
ttcctcttcc ccccaaaacc caaggatacc cttatgattt cccggacccc tgaggtcacg 240
tgcggtggtg tggacgtgag ccacgaagac cccgaggtcc agttcaagtg gtacgtggac 300
ggcggtggagg tgcataatgc caagacaaag ccgcgggagg agcagtacaa cagcacgttc 360
cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaacggcaa ggagtacaag 420
tgcaaggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaaacaaa 480

150313_0893_86150_PCT_Sequence_Listing_REB

```

ggacagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag      540
aaccagggtca gcctgacctg cctgggtcaaa ggcttctacc ccagcgacat cgccgtggag      600
tgggagagca gcgggcagcc ggagaacaac tacaacacca cgcctcccat gctggactcc      660
gacggctcct tcttctctta cagcaagctc accgtggaca agagcagggtg gcagcagggg      720
aacatcttct catgctccgt gatgcatgag gctctgcaca accgcttcac gcagaagagc      780
ctctccctgt ctccgggtaa a                                              801

```

<210> 59
 <211> 290
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having SHH signal peptide
 <400> 59

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Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
 1          5          10          15

Leu Val Cys Ser Gly Leu Ala Cys Pro Arg Cys Pro Glu Pro Lys Ser
          20          25          30

Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys
          35          40          45

Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp
 50          55          60

Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala Pro Glu Leu Leu Gly Gly
65          70          75          80

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
          85          90          95

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
          100          105          110

Asp Pro Glu Val Gln Phe Lys Trp Tyr Val Asp Gly Val Glu Val His
          115          120          125

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Phe Arg
          130          135          140

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
          145          150          155          160

```

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
165 170 175

Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
180 185 190

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
195 200 205

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
210 215 220

Glu Ser Ser Gly Gln Pro Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met
225 230 235 240

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
245 250 255

Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe Ser Cys Ser Val Met His
260 265 270

Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro
275 280 285

Gly Lys
290

<210> 60
<211> 902
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

<400> 60
aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct 60
cgctgctggt atgctcgga ctggcgtgcc cacggtgccc agagcccaaa tcttgtgaca 120
cacctcccc gtgccacgg tgcccagagc ccaaattctg tgacacacct ccccatgcc 180
cacggtgccc agagcccaaa tcttgtgaca cacctcccc gtgcccaagg tgcccagcac 240
ctgaactcct gggaggaccg tcagtcttcc tcttcccccc aaaaccaag gataccctta 300
tgatttcccg gaccctgag gtcacgtgcg tgggtggtgga cgtgagccac gaagaccccg 360
aggtccagtt caagtggtag gtggacggcg tggaggtgca taatgccaa acaaagccgc 420
gggaggagca gtacaacagc acgttccgtg tggtcagcgt cctcaccgtc ctgcaccagg 480

150313_0893_86150_PCT_Sequence_Listing_REB

actggctgaa cggcaaggag tacaagtga aggtctccaa caaagccctc ccagcccca	540
tcgagaaaac catctccaaa accaaaggac agcccccaga accacaggtg tacaccctgc	600
ccccatcccc ggaggagatg accaagaacc aggtcagcct gacctgcctg gtcaaaggct	660
tctaccccag cgacatcgcc gtggagtggg agagcagcgg gcagccggag aacaactaca	720
acaccacgcc tcccatgctg gactccgacg gctccttctt cctctacagc aagctcaccg	780
tggacaagag caggtggcag caggggaaca tcttctcatg ctccgtgatg catgaggctc	840
tgcacaaccg cttcacgcag aagagcctct ccctgtctcc gggtaaata ctcgagcggc	900
cg	902

<210> 61
 <211> 290
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having IFN signal peptide

<400> 61

Met	Ala	Leu	Thr	Phe	Ala	Leu	Leu	Val	Ala	Leu	Leu	Val	Leu	Ser	Cys
1				5					10					15	

Lys	Ser	Ser	Cys	Ser	Val	Gly	Cys	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser
			20					25					30		

Cys	Asp	Thr	Pro	Pro	Pro	Cys	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser	Cys
		35					40					45			

Asp	Thr	Pro	Pro	Pro	Cys	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser	Cys	Asp
	50					55					60				

Thr	Pro	Pro	Pro	Cys	Pro	Arg	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly
65					70					75					80

Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile
				85					90					95	

Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu
			100					105					110		

Asp	Pro	Glu	Val	Gln	Phe	Lys	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His
		115					120					125			

Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Phe	Arg
	130					135					140				

150313_0893_86150_PCT_Sequence_Listing_REB

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
145 150 155 160

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
165 170 175

Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
180 185 190

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
195 200 205

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
210 215 220

Glu Ser Ser Gly Gln Pro Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met
225 230 235 240

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
245 250 255

Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe Ser Cys Ser Val Met His
260 265 270

Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro
275 280 285

Gly Lys
290

<210> 62
<211> 902
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 62
aagcttgaat tcccacatg gccttgacct ttgctttact ggtggccctc ctggtgctca 60
gctgcaagtc aagctgctct gtgggctgcc cacggtgccc agagcccaaa tcttgtgaca 120
cacctcccc gtgccacgg tgcccagagc ccaaattctt tgacacacct ccccatgcc 180
cacggtgccc agagcccaaa tcttgtgaca cacctcccc gtgcccaagg tgcccagcac 240
ctgaactcct gggaggaccg tcagtcttcc tcttcccccc aaaaccaag gataccctta 300
tgatttcccg gaccctgag gtcacgtgcg tgggtggtgga cgtgagccac gaagaccccg 360
agggtccagtt caagtgggtac gtggacggcg tggaggtgca taatgccaa acaaagccgc 420

150313_0893_86150_PCT_Sequence_Listing_REB

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gggaggagca gtacaacagc acgttccgtg tggtcagcgt cctcaccgtc ctgcaccagg      480
actggctgaa cggcaaggag tacaagtgca aggtctccaa caaagccctc ccagcccca      540
tcgagaaaac catctccaaa accaaaggac agccccgaga accacaggtg tacaccctgc      600
cccatcccg ggaggagatg accaagaacc aggtcagcct gacctgcctg gtcaaaggct      660
tctacccag cgacatcgcc gtggagtggg agagcagcgg gcagccggag aacaactaca      720
acaccagcc tcccatgctg gactccgacg gctccttctt cctctacagc aagctcaccg      780
tggaacaagag caggtggcag caggggaaca tcttctcatg ctccgtgatg catgaggctc      840
tgcacaaccg cttcacgcag aagagcctct ccctgtctcc gggtaaata ctcgagcggc      900
cg                                                                           902

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<210> 63
 <211> 284
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having CETP signal peptide
 <400> 63

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
 1 5 10 15

Ala Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro
 20 25 30

Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys
 35 40 45

Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro
 50 55 60

Arg Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
 65 70 75 80

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 85 90 95

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe
 100 105 110

Lys Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 115 120 125

Arg Glu Glu Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr
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130

135

140

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
145 150 155 160

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr
165 170 175

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
180 185 190

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
195 200 205

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro
210 215 220

Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser
225 230 235 240

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
245 250 255

Gly Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg
260 265 270

Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
275 280

<210> 64

<211> 884

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 64

aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg	60
cccatgcctg cccacggtgc ccagagccca aatcttgtga cacacctccc ccgtgcccac	120
ggtgcccaga gcccaaactt tgtgacacac ctcccccatg cccacggtgc ccagagccca	180
aatcttgtga cacacctccc ccgtgcccac ggtgcccagc acctgaactc ctgggaggag	240
cgtcagtctt cctcttcccc ccaaaaccca aggataccct tatgatttcc cggaccctg	300
aggtcacgtg cgtggtggtg gacgtgagcc acgaagaccc cgaggtccag ttcaagtgg	360
acgtggacgg cgtggaggtg cataatgcca agacaaagcc gcgggaggag cagtacaaca	420

150313_0893_86150_PCT_Sequence_Listing_REB

gcacgttccg tgtgggtcagc gtcctcaccg tcctgcacca ggactggctg aacggcaagg 480
 agtacaagtg caaggtctcc aacaaagccc tcccagcccc catcgagaaa accatctcca 540
 aaaccaaagg acagccccga gaaccacagg tgtacaccct gcccccatcc cgggaggaga 600
 tgaccaagaa ccaggtcagc ctgacctgcc tgggtcaaagg cttctacccc agcgacatcg 660
 ccgtggagtg ggagagcagc gggcagccgg agaacaacta caacaccacg cctcccatgc 720
 tggactccga cggctccttc ttctcttaca gcaagctcac cgtggacaag agcaggtggc 780
 agcaggggaa catctttctca tgctccgtga tgcattgagc tctgcacaac cgcttcacgc 840
 agaagagcct ctccctgtct ccgggtaaat gactcgagcg gccg 884

<210> 65

<211> 222

<212> PRT

<213> Artificial Sequence

<220>

<223> Human IgG3 Fc domain having the N-terminal sequence CPRCPAPE

<400> 65

Cys Pro Arg Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
 1 5 10 15

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
 20 25 30

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
 35 40 45

Gln Phe Lys Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
 50 55 60

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val
 65 70 75 80

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
 85 90 95

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
 100 105 110

Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
 115 120 125

Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
 130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly
145 150 155 160

Gln Pro Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp
165 170 175

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
180 185 190

Gln Gln Gly Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His
195 200 205

Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215 220

<210> 66
<211> 681
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding human IgG3 Fc domain having the N-terminal sequence
CPRCPAPE

<400> 66
tgcccaaggt gccagcacc tgaactcctg ggaggaccgt cagtcttcct cttcccccca 60
aaaccaagg atacccttat gatttcccg acccctgagg tcacgtgcgt ggtggtggac 120
gtgagccacg aagaccccga ggtccagttc aagtggtagc tggacggcgt ggaggtgcat 180
aatgccaaga caaagccgag ggaggagcag tacaacagca cgttcctgtt ggtcagcgtc 240
ctcaccgtcc tgcaccagga ctggctgaac ggcaaggagt acaagtgcaa ggtctccaac 300
aaagccctcc cagcccccat cgagaaaacc atctccaaaa ccaaaggaca gccccgagaa 360
ccacaggtgt acaccctgcc cccatcccg gaggagatga ccaagaacca ggtcagcctg 420
acctgcctgg tcaaaggctt ctaccccagc gacatcgccg tggagtggga gagcagcggg 480
cagccggaga acaactacaa caccacgcct cccatgctgg actccgacgg ctcttcttct 540
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacat cttctcatgc 600
tccgtgatgc atgaggctct gcacaaccgc ttcacgcaga agagcctctc cctgtctccg 660
ggtaaataac tcgagcggcc g 681

<210> 67
<211> 245
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having SHH signal peptide

150313_0893_86150_PCT_Sequence_Listing_REB

<400> 67

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Arg Cys Pro Ala Pro Glu Leu
20 25 30

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
35 40 45

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
50 55 60

Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr Val Asp Gly Val
65 70 75 80

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
85 90 95

Thr Phe Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
100 105 110

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
115 120 125

Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro
130 135 140

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
145 150 155 160

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn Asn Tyr Asn Thr Thr
180 185 190

Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Pro Gly Lys

245

<210> 68
 <211> 767
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

<400> 68
 aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct 60
 cgctgctggg atgctcgagg ctggcgtgcc caaggtgccc agcacctgaa ctcctgggag 120
 gaccgtcagt cttcctcttc cccccaaaac ccaaggatac ctttatgatt tcccggaccc 180
 ctgaggtcac gtgctggtg gtggacgtga gccacgaaga ccccgaggtc cagttcaagt 240
 ggtacgtgga cggcgtggag gtgcataatg ccaagacaaa gccgcgggag gagcagtaca 300
 acagcacgtt ccgtgtggtc agcgtcctca ccgtcctgca ccaggactgg ctgaacggca 360
 aggagtacaa gtgcaaggtc tccaacaaag ccctcccagc ccccatcgag aaaaccatct 420
 ccaaaaccaa aggacagccc cgagaaccac aggtgtacac cctgccccca tcccgggagg 480
 agatgaccaa gaaccaggtc agcctgacct gcctgggtcaa aggtttctac cccagcgaca 540
 tcgccgtgga gtgggagagc agcgggcagc cggagaacaa ctacaacacc acgcctccca 600
 tgctggactc cgacggctcc ttcttctctt acagcaagct caccgtggac aagagcaggt 660
 ggcagcaggg gaacatcttc tcatgctccg tgatgcatga ggctctgcac aaccgcttca 720
 cgcagaagag cctctccctg tctccgggta aatgactcga gcggccg 767

<210> 69
 <211> 245
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having IFN signal peptide

<400> 69

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
 1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Arg Cys Pro Ala Pro Glu Leu
 20 25 30

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 35 40 45

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
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150313_0893_86150_PCT_Sequence_Listing_REB

50

55

60

Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr Val Asp Gly Val
65 70 75 80

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
85 90 95

Thr Phe Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
100 105 110

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
115 120 125

Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro
130 135 140

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
145 150 155 160

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn Asn Tyr Asn Thr Thr
180 185 190

Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Pro Gly Lys
245

<210> 70
<211> 767
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 70
aagcttgaat tcccacatg gccttgacct ttgctttact ggtggccctc ctggtgctca

60

150313_0893_86150_PCT_Sequence_Listing_REB

gctgcaagtc aagctgtctt gtgggctgcc caaggtgccc agcacctgaa ctcctgggag	120
gaccgtcagt cttcctcttc cccccaaaac ccaaggatac ctttatgatt tcccggaccc	180
ctgaggtcac gtgctgtgtg gtggacgtga gccacgaaga ccccgaggtc cagttcaagt	240
ggtacgtgga cggcgtggag gtgcataatg ccaagacaaa gccgcgggag gagcagtaca	300
acagcacgtt ccgtgtggtc agcgtcctca ccgtcctgca ccaggactgg ctgaacggca	360
aggagtacaa gtgcaaggtc tccaacaaag ccctcccagc ccccatcgag aaaacctct	420
ccaaaaccaa aggacagccc cgagaaccac aggtgtacac cctgccccca tcccgggagg	480
agatgaccaa gaaccaggtc agcctgacct gcctggtcaa aggcttctac cccagcgaca	540
tcgccgtgga gtgggagagc agcgggcagc cggagaacaa ctacaacacc acgcctccca	600
tgctggactc cgacggctcc ttcttctctt acagcaagct caccgtggac aagagcaggt	660
ggcagcaggg gaacatcttc tcatgtccg tgatgcatga ggctctgcac aaccgcttca	720
cgcagaagag cctctccctg tctccgggta aatgactcga gcggccg	767

<210> 71
 <211> 239
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having CETP signal peptide

<400> 71

Met	Leu	Ala	Ala	Thr	Val	Leu	Thr	Leu	Ala	Leu	Leu	Gly	Asn	Ala	His
1				5					10					15	

Ala	Cys	Pro	Arg	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val
			20					25					30		

Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr
			35				40					45			

Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu
	50					55					60				

Val	Gln	Phe	Lys	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys
65					70					75					80

Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Phe	Arg	Val	Val	Ser
				85					90					95	

Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys
			100					105					110		

150313_0893_86150_PCT_Sequence_Listing_REB

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
115 120 125

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

Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
145 150 155 160

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser
165 170 175

Gly Gln Pro Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser
180 185 190

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
195 200 205

Trp Gln Gln Gly Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu
210 215 220

His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
225 230 235

<210> 72
<211> 749
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 72
aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg 60
cccatgcctg cccaagggtgc ccagcacctg aactcctggg aggaccgtca gtcttcctct 120
tccccccaaa acccaaggat acccttatga tttcccggac ccctgaggtc acgtgcgtgg 180
tggtggacgt gagccacgaa gaccccgagg tccagttcaa gtggtacgtg gacggcgtgg 240
aggtgcataa tgccaagaca aagccgcggg aggagcagta caacagcacg ttccgtgtgg 300
tcagcgtcct caccgtcctg caccaggact ggctgaacgg caaggagtac aagtgaagg 360
tctccaacaa agccctccca gccccatcg agaaaaccat ctccaaaacc aaaggacagc 420
cccgagaacc acaggtgtac accctgcccc catcccggga ggagatgacc aagaaccagg 480
tcagcctgac ctgcctggtc aaaggcttct accccagcga catcgccgtg gagtgggaga 540
gcagcgggca gccggagaac aactacaaca ccacgcctcc catgctggac tccgacggct 600
ccttcttcct ctacagcaag ctcaccgtgg acaagagcag gtggcagcag gggaacatct 660

150313_0893_86150_PCT_Sequence_Listing_REB

tctcatgctc cgtgatgcat gaggctctgc acaaccgctt cacgcagaag agcctctccc 720
tgtctccggg taaatgactc gagcggccg 749

<210> 73
<211> 219
<212> PRT
<213> Artificial Sequence

<220>
<223> Human IgG3 Fc domain having the N-terminal sequence CPAPE

<400> 73

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
1 5 10 15

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
20 25 30

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys
35 40 45

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
50 55 60

Glu Glu Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val
65 70 75 80

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
85 90 95

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys
100 105 110

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
115 120 125

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
130 135 140

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro Glu
145 150 155 160

Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe
165 170 175

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe
 195 200 205

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 210 215

<210> 74
 <211> 672
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA encoding human IgG3 Fc domain having the N-terminal sequence CPAPE

<400> 74
 tgcccagcac ctgaactcct gggaggaccg tcagtcttcc tcttcccccc aaaacccaag 60
 gataccctta tgatttcccg gacccttgag gtcacgtgcg tgggtggtgga cgtgagccac 120
 gaagaccccg aggtccagtt caagtgttac gtggacggcg tggaggtgca taatgccaag 180
 acaaagccgc gggaggagca gtacaacagc acgttccgtg tggtcagcgt cctcaccgtc 240
 ctgcaccagg actggctgaa cggcaaggag tacaagtgca aggtctccaa caaagccctc 300
 ccagccccca tcgagaaaac catctccaaa accaaaggac agccccgaga accacaggtg 360
 tacaccctgc ccccatcccg ggaggagatg accaagaacc aggtcagcct gacctgcctg 420
 gtcaaaggct tctaccccag cgacatcgcc gtggagtggg agagcagcgg gcagccggag 480
 aacaactaca acaccacgcc tcccatgctg gactccgacg gtccttctt cctctacagc 540
 aagctcaccg tggacaagag caggtggcag caggggaaca tcttctcatg ctccgtgatg 600
 catgaggctc tgcacaaccg cttcacgcag aagagcctct ccctgtctcc gggtaaata 660
 ctcgagcggc cg 672

<210> 75
 <211> 242
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having SHH signal peptide

<400> 75

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
 1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Ala Pro Glu Leu Leu Gly Gly
 20 25 30

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
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35

40

45

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
50 55 60

Asp Pro Glu Val Gln Phe Lys Trp Tyr Val Asp Gly Val Glu Val His
65 70 75 80

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

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
100 105 110

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
115 120 125

Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
130 135 140

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
145 150 155 160

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
165 170 175

Glu Ser Ser Gly Gln Pro Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met
180 185 190

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
195 200 205

Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe Ser Cys Ser Val Met His
210 215 220

Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro
225 230 235 240

Gly Lys

<210> 76

<211> 758

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having SHH signal peptide

150313_0893_86150_PCT_Sequence_Listing_REB

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<400> 76
aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct      60
cgctgctggt atgctcgga ctggcgtgcc cagcacctga actcctggga ggaccgtcag      120
tcttcctctt cccccaaaa cccaaggata cccttatgat ttcccggacc cctgaggtca      180
cgtgcgtggt ggtggacgtg agccacgaag accccgaggt ccagttcaag tggtagctgg      240
acggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagtag aacagcacgt      300
tccgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaacggc aaggagtaca      360
agtgaagggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc tccaaaacca      420
aaggacagcc ccgagaacca caggtgtaca ccttgcccc atcccgggag gagatgacca      480
agaaccaggt cagcctgacc tgcctggtca aaggcttcta cccagcgac atcgccgtgg      540
agtgggagag cagcgggcag ccggagaaca actacaacac cagcctccc atgctggact      600
ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg tggcagcagg      660
ggaacatctt ctcagtctcc gtgatgcatg aggtcttgca caaccgttc acgcagaaga      720
gcctctccct gtctccgggt aaatgactcg agcggccg      758

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<210> 77
<211> 242
<212> PRT
<213> Artificial Sequence

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<220>
<223> pre-Fc chimeric polypeptide having IFN signal peptide

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<400> 77
Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1          5          10          15

Lys Ser Ser Cys Ser Val Gly Cys Pro Ala Pro Glu Leu Leu Gly Gly
          20          25          30

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
          35          40          45

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
          50          55          60

Asp Pro Glu Val Gln Phe Lys Trp Tyr Val Asp Gly Val Glu Val His
65          70          75          80

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

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150313_0893_86150_PCT_Sequence_Listing_REB

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
100 105 110

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
115 120 125

Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
130 135 140

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
145 150 155 160

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
165 170 175

Glu Ser Ser Gly Gln Pro Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met
180 185 190

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
195 200 205

Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe Ser Cys Ser Val Met His
210 215 220

Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro
225 230 235 240

Gly Lys

<210> 78
<211> 758
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having IFN signal peptide

<400> 78
aagcttgaat tcccacatg gccttgacct ttgctttact ggtggccctc ctggtgctca 60
gctgcaagtc aagctgctct gtgggctgcc cagcacctga actcctggga ggaccgtcag 120
tcttcctctt cccccaaaa cccaaggata cccttatgat ttcccgacc cctgaggtca 180
cgtgctgtgt ggtggacgtg agccacgaag accccgaggt ccagttcaag tggtagctgg 240
acggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagtag aacagcacgt 300
tccgtgtgtt cagcgtcctc accgtcctgc accaggactg gctgaacggc aaggagtaca 360
agtgaagggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc tccaaaacca 420

150313_0893_86150_PCT_Sequence_Listing_REB

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aaggacagcc ccgagaacca caggtgtaca ccctgcccc atcccgggag gagatgacca      480
agaaccaggt cagcctgacc tgcctggtca aaggcttcta cccagcgac atcgccgtgg      540
agtgggagag cagcgggcag ccggagaaca actacaacac cagcctccc atgctggact      600
ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg tggcagcagg      660
ggaacatctt ctcattgctc gtgatgatg aggctctgca caaccgcttc acgcagaaga      720
gcctctccct gtctccgggt aaatgactcg agcggccg      758

```

<210> 79
 <211> 235
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having CETP signal peptide
 <400> 79

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Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1           5           10          15

Ala Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
          20          25          30

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

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

Lys Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
65          70          75          80

Arg Glu Glu Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr
          85          90          95

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
          100         105         110

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr
          115         120         125

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

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
145         150         155         160

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150313_0893_86150_PCT_Sequence_Listing_REB

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro
165 170 175

Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser
180 185 190

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
195 200 205

Gly Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg
210 215 220

Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
225 230 235

<210> 80
<211> 740
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having CETP signal peptide

<400> 80
aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg 60
cccatgcctg ccacgacact gaactcctgg gaggaccgtc agtcttcctc ttccccccaa 120
aacccaagga tacccttatg atttcccga cccctgaggt cacgtgcgtg gtggtggacg 180
tgagccacga agaccccgag gtccagttca agtggtacgt ggacggcgtg gaggtgcata 240
atgccaagac aaagccgcgg gaggagcagt acaacagcac gttccgtgtg gtcagcgtcc 300
tcaccgtcct gcaccaggac tggctgaacg gcaaggagta caagtgaag gtctccaaca 360
aagccctccc agcccccatc gagaaaacca tctccaaaac caaaggacag ccccgagaac 420
cacaggtgta caccctgccc ccatcccggg aggagatgac caagaaccag gtcagcctga 480
cctgcctggt caaaggcttc taccacgagc acatcgccgt ggagtgggag agcagcgggc 540
agccggagaa caactacaac accacgcctc ccatgctgga ctccgacggc tccttcttcc 600
tctacagcaa gctcaccgtg gacaagagca ggtggcagca ggggaacatc ttctcatgct 660
ccgtgatgca tgaggctctg cacaaccgct tcacgcagaa gagcctctcc ctgtctccgg 720
gtaaatgact cgagcggccg 740

<210> 81
<211> 222
<212> PRT
<213> Artificial Sequence

150313_0893_86150_PCT_Sequence_Listing_REB

<220>

<223> Human IgG4 Fc domain having the N-terminal sequence CPSCAPE

<400> 81

Cys Pro Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe
1 5 10 15

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
20 25 30

Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val
35 40 45

Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
50 55 60

Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val
65 70 75 80

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
85 90 95

Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser
100 105 110

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
115 120 125

Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
130 135 140

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
145 150 155 160

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
165 170 175

Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp
180 185 190

Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
195 200 205

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
210 215 220

<210> 82

<211> 666

150313_0893_86150_PCT_Sequence_Listing_REB

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding human IgG4 Fc domain having the N-terminal sequence CPSCPAPE

<400> 82

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tgcccatcat gccagcacc tgagttcctg gggggaccat cagtcttcct gttcccccca      60
aaacccaagg acactctcat gatctcccg acccctgagg tcacgtgcgt ggtggtggac      120
gtgagccagg aagaccccga ggtccagttc aactggtacg tggatggcgt ggaggtgcat      180
aatgccaaga caaagccgcg ggaggagcag ttcaacagca cgtaccgtgt ggtcagcgtc      240
ctcaccgtcc tgcaccagga ctggctgaac ggcaaggagt acaagtgcaa ggtctccaac      300
aaaggcctcc cgtcctccat cgagaaaacc atctccaaag ccaaagggca gccccgagag      360
ccacaggtgt acaccctgcc cccatcccag gaggagatga ccaagaacca ggtcagcctg      420
acctgcctgg tcaaaggctt ctaccccagc gacatcgccg tggagtggga gagcaatggg      480
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctccttcttc      540
ctctacagca ggctaaccgt ggacaagagc aggtggcagg aggggaatgt cttctcatgc      600
tccgtgatgc atgaggctct gcacaaccac tacacacaga agagcctctc cctgtctctg      660
ggtaaa                                         666

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<210> 83

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-Fc chimeric polypeptide having a SHH signal peptide

<400> 83

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Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1           5           10          15

Leu Val Cys Ser Gly Leu Ala Cys Pro Ser Cys Pro Ala Pro Glu Phe
          20          25          30

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
          35          40          45

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
50          55          60

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
65          70          75          80

```

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
85 90 95

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

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
115 120 125

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

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
145 150 155 160

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
180 185 190

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Leu Gly Lys
245

<210> 84

<211> 767

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having a SHH signal peptide

<400> 84

aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct 60

cgctgctggt atgctcgga ctggcgtgcc catcatgccc agcacctgag ttcctggggg 120

gaccatcagt cttcctgttc cccccaaac ccaaggacac tctcatgac tcccggaccc 180

ctgaggtcac gtgctggtg gtggacgtga gccaggaaga ccccgaggtc cagttcaact 240

ggtacgtgga tggcgtggag gtgcataatg ccaagacaaa gccgcgggag gagcagttca 300

150313_0893_86150_PCT_Sequence_Listing_REB

```

acagcacgta ccgtgtggtc agcgtcctca ccgtcctgca ccaggactgg ctgaacggca      360
aggagtacaa gtgcaaggtc tccaacaaag gcctcccgtc ctccatcgag aaaaccatct      420
ccaaagccaa agggcagccc cgagagccac aggtgtacac cctgccccca tcccaggagg      480
agatgaccaa gaaccaggtc agcctgacct gcctgggtcaa aggctttctac cccagcgaca      540
tcgccgtgga gtgggagagc aatgggcagc cggagaacaa ctacaagacc acgcctcccg      600
tgctggactc cgacggctcc ttcttcctct acagcaggct aaccgtggac aagagcaggt      660
ggcaggaggg gaatgtcttc tcatgctccg tgatgcatga ggctctgcac aaccactaca      720
cacagaagag cctctccctg tctctgggta aatgactcga gcggccg                    767

```

<210> 85
 <211> 245
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having a IFN signal peptide
 <400> 85

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
 1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Ser Cys Pro Ala Pro Glu Phe
 20 25 30

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 35 40 45

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 50 55 60

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
 65 70 75 80

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
 85 90 95

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

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
 115 120 125

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

150313_0893_86150_PCT_Sequence_Listing_REB

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
145 150 155 160

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
180 185 190

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Leu Gly Lys
245

<210> 86
<211> 767
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having a IFN signal peptide

<400> 86
aagcttgaat tcccaccatg gccttgacct ttgctttact ggtggccctc ctggtgctca 60
gctgcaagtc aagctgctct gtgggctgcc catcatgccc agcacctgag ttcctggggg 120
gaccatcagt cttcctgttc cccccaaac ccaaggacac tctcatgac tcccggaccc 180
ctgaggtcac gtgctgtgtg gtggacgtga gccaggaaga ccccgaggtc cagttcaact 240
ggtacgtgga tggcgtggag gtgcataatg ccaagacaaa gccgcgggag gagcagttca 300
acagcacgta ccgtgtggtc agcgtcctca ccgtcctgca ccaggactgg ctgaacggca 360
aggagtacaa gtgcaaggtc tccaacaaag gcctcccgtc ctccatcgag aaaaccatct 420
ccaaagccaa agggcagccc cgagagccac aggtgtacac cctgccccca tcccaggagg 480
agatgaccaa gaaccaggtc agcctgacct gcctggtcaa aggcttctac cccagcgaca 540
tcgccgtgga gtgggagagc aatgggcagc cggagaacaa ctacaagacc acgcctcccg 600
tgctggactc cgacggctcc ttcttctct acagcaggct aaccgtggac aagagcaggt 660
ggcaggaggg gaatgtcttc tcatgctccg tgatgcatga ggctctgcac aaccactaca 720

cacagaagag cctctccctg tctctgggta aatgactcga gcggccg

767

<210> 87

<211> 239

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-Fc chimeric polypeptide having a CETP signal peptide

<400> 87

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
 1 5 10 15

Ala Cys Pro Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val
 20 25 30

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 35 40 45

Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
 50 55 60

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 65 70 75 80

Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
 85 90 95

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 100 105 110

Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
 115 120 125

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

Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 145 150 155 160

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 165 170 175

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 180 185 190

Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg
 195 200 205

150313_0893_86150_PCT_Sequence_Listing_REB

Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
210 215 220

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
225 230 235

<210> 88
<211> 749
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having a CETP signal peptide

<400> 88
aagcttgaat tcccaccatg ctggctgcca cagtcctgac cctggccctg ctgggcaatg 60
cccatgcctg cccatcatgc ccagcacctg agttcctggg gggaccatca gtcttcctgt 120
tcccccaaaa acccaaggac actctcatga tctcccgac ccctgaggtc acgtgcgtgg 180
tggtggacgt gagccaggaa gaccccgagg tccagttcaa ctggtacgtg gatggcgtgg 240
aggtgcataa tgccaagaca aagccgcggg aggagcagtt caacagcacg taccgtgtgg 300
tcagcgtcct caccgtcctg caccaggact ggctgaacgg caaggagtac aagtgaagg 360
tctccaacaa aggcctcccg tcctccatcg agaaaaccat ctcaaagcc aaagggcagc 420
cccagagacc acaggtgtac accctgcccc catcccagga ggagatgacc aagaaccagg 480
tcagcctgac ctgcctggtc aaaggcttct accccagcga catcgccgtg gagtgggaga 540
gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac tccgacggct 600
ccttcttctc ctacagcagg ctaaccgtgg acaagagcag gtggcaggag gggaatgtct 660
tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacacagaag agcctctccc 720
tgtctctggg taaatgactc gagcggccg 749

<210> 89
<211> 219
<212> PRT
<213> Artificial Sequence

<220>
<223> Human IgG4 Fc domain having the N-terminal sequence CPAPE

<400> 89

Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
1 5 10 15

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
20 25 30

150313_0893_86150_PCT_Sequence_Listing_REB

Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn
35 40 45

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
50 55 60

Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
65 70 75 80

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
85 90 95

Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys
100 105 110

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu
115 120 125

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
130 135 140

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
145 150 155 160

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
165 170 175

Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly
180 185 190

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
195 200 205

Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
210 215

<210> 90
<211> 657
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding human IgG4 Fc domain having the N-terminal sequence
CPAPE

<400> 90
tgcccagcac ctgagttcct ggggggacca tcagtcttcc tgttcccccc aaaacccaag 60
gacactctca tgatctcccg gaccctgag gtcacgtgcg tgggtggtgga cgtgagccag 120

150313_0893_86150_PCT_Sequence_Listing_REB

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gaagaccccg aggtccagtt caactggtac gtggatggcg tggaggtgca taatgccaag      180
acaaagccgc gggaggagca gttcaacagc acgtaccgtg tggtcagcgt cctcaccgtc      240
ctgcaccagg actggctgaa cggcaaggag tacaagtgca aggtctccaa caaaggcctc      300
ccgtcctcca tcgagaaaac catctccaaa gccaaagggc agccccgaga gccacaggtg      360
tacaccctgc ccccatccca ggaggagatg accaagaacc aggtcagcct gacctgcctg      420
gtcaaaggct tctaccccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag      480
aacaactaca agaccacgcc tcccgctgct gactccgacg gctccttctt cctctacagc      540
aggctaaccg tggacaagag caggtggcag gaggggaatg tcttctcatg ctccgtgatg      600
catgaggctc tgcacaacca ctacacacag aagagcctct ccctgtctct gggtaaa        657

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<210> 91
 <211> 242
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc chimeric polypeptide having a SHH signal peptide
 <400> 91

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
 1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Ala Pro Glu Phe Leu Gly Gly
 20 25 30

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 35 40 45

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
 50 55 60

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 65 70 75 80

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

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 100 105 110

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
 115 120 125

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
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130

135

140

Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
145 150 155 160

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
165 170 175

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
180 185 190

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
195 200 205

Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
210 215 220

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
225 230 235 240

Gly Lys

<210> 92

<211> 758

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding pre-Fc chimeric polypeptide having a SHH signal peptide

<400> 92

aagcttgaat tcccaccatg ctgctgctgg cgagatgtct gctgctagtc ctcgtctcct	60
cgctgctggt atgctcgga ctggcgtgcc cagcacctga gttcctgggg ggaccatcag	120
tcttctgttt cccccaaaa cccaaggaca ctctcatgat ctcccggacc cctgaggtca	180
cgtgcgtggt ggtggacgtg agccaggaag accccgaggt ccagttcaac tggtagctgg	240
atggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagttc aacagcacgt	300
accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaacggc aaggagtaca	360
agtgaagggt ctccaacaaa ggcctccgt cctccatcga gaaaaccatc tccaaagcca	420
aagggcagcc ccgagagcca caggtgtaca ccctgcccc atcccaggag gagatgacca	480
agaaccaggt cagcctgacc tgctgtgtca aaggcttcta cccagcgac atcgccgtgg	540
agtgaggagag caatgggcag ccggagaaca actacaagac cagcctccc gtgctggact	600
ccgacggctc cttcttctc tacagcaggc taaccgtgga caagagcagg tggcaggagg	660

150313_0893_86150_PCT_Sequence_Listing_REB

ggaatgtctt ctcattgctcc gtgatgcatg aggctctgca caaccactac acacagaaga 720
gcctctccct gtctctgggt aaatgactcg agcggccg 758

<210> 93
<211> 242
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-Fc chimeric polypeptide having a IFN signal peptide
<400> 93

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

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

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
35 40 45

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
50 55 60

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
65 70 75 80

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

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
100 105 110

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
115 120 125

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

Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
145 150 155 160

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
165 170 175

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
195 200 205

Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
210 215 220

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
225 230 235 240

Gly Lys

<210> 94
<211> 758
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA encoding pre-Fc chimeric polypeptide having a IFN signal peptide

<400> 94
aagcttgaat tcccaccatg gccttgacct ttgctttact ggtggccctc ctggtgctca 60
gctgcaagtc aagctgctct gtgggctgcc cagcacctga gttcctgggg ggaccatcag 120
tcttcctgtt cccccaaaaa cccaaggaca ctctcatgat ctcccgacc cctgaggtca 180
cgtgctgtgt ggtggacgtg agccaggaag accccgaggt ccagttcaac tggtagctgg 240
atggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagttc aacagcacgt 300
accgtgtgtt cagcgtcctc accgtcctgc accaggactg gctgaacggc aaggagtaca 360
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aagggcagcc ccgagagcca caggtgtaca ccctgcccc atcccaggag gagatgacca 480
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Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
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Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
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Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
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Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
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Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu
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150313_0893_86150_PCT_Sequence_Listing_REB

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<210> 104
 <211> 245
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-Fc6 polypeptide

<400> 104

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
 1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Pro Cys Pro Ala Pro Glu Leu
 20 25 30

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 35 40 45

150313_0893_86150_PCT_Sequence_Listing_REB

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
50 55 60

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
65 70 75 80

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
85 90 95

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

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
115 120 125

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

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

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
165 170 175

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
180 185 190

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
195 200 205

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
210 215 220

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
225 230 235 240

Leu Ser Pro Gly Lys
245

<210> 105
<211> 222
<212> PRT
<213> Artificial Sequence

<220>
<223> mature Fc6 protein

<400> 105

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
Page 102

150313_0893_86150_PCT_Sequence_Listing_REB

```

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Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
      20      25      30
Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
      35      40      45
Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
      50      55      60
Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
      65      70      75      80
Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
      85      90      95
Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
      100     105     110
Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
      115     120     125
Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
      130     135     140
Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
      145     150     155     160
Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
      165     170     175
Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
      180     185     190
Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
      195     200     205
Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
      210     215     220

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<210> 106

<211> 237

<212> PRT

<213> Artificial Sequence

<220>

<223> cleaved alkyne-modified TNR1B

150313_0893_86150_PCT_Sequence_Listing_REB

<220>

<221> SITE

<222> (237)..(237)

<223> Xaa = cysteine-alkyne

<400> 106

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

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr
195 200 205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
210 215 220

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Gly Xaa
 225 230 235

<210> 107
 <211> 237
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> azide-modified TNR1B protein

<220>
 <221> SITE
 <222> (237)..(237)
 <223> Xaa = cysteine-azide

<400> 107

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

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
 20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
 35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
 50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
 65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
 85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
 100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
 115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
 130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
 145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
 165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr
195 200 205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
210 215 220

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Gly Xaa
225 230 235

<210> 108
<211> 237
<212> PRT
<213> Artificial Sequence

<220>
<223> cysteine-modified TNR1B
<400> 108

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

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr
195 200 205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
210 215 220

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Gly Cys
225 230 235

<210> 109
<211> 236
<212> PRT
<213> Artificial Sequence

<220>
<223> thioester-modified TNR1B

<220>
<221> SITE
<222> (236)..(236)
<223> Xaa = glycine-thioester

<400> 109

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

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

150313_0893_86150_PCT_Sequence_Listing_REB

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr
195 200 205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
210 215 220

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Xaa
225 230 235

<210> 110
<211> 227
<212> PRT
<213> Artificial Sequence

<220>
<223> Az-DKHT-Fc6 protein

<220>
<221> SITE
<222> (1)..(1)
<223> Xaa = azide-aspartic acid

<400> 110

Xaa Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
1 5 10 15

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
20 25 30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
Page 108

35

40

45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 50 55 60

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 65 70 75 80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 85 90 95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 100 105 110

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 115 120 125

Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 130 135 140

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 195 200 205

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 210 215 220

Pro Gly Lys
 225

<210> 111
 <211> 227
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Az-PEG4-DKHTT-Fc6

<220>
 <221> SITE
 <222> (1)..(1)

150313_0893_86150_PCT_Sequence_Listing_REB

<223> Xaa = azide-PEG4-aspartic acid

<400> 111

Xaa Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
1 5 10 15

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
20 25 30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
35 40 45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
50 55 60

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
65 70 75 80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
85 90 95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
100 105 110

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
115 120 125

Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
130 135 140

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
195 200 205

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
210 215 220

Pro Gly Lys
225

150313_0893_86150_PCT_Sequence_Listing_REB

<210> 112
 <211> 465
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide with internal non-peptidyl moiety.
 TNR1B-alkyne-azide-Fc6

<220>
 <221> SITE
 <222> (238)..(238)
 <223> Xaa = non-peptidyl moiety

<400> 112

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
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Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
 20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
 35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
 50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
 65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
 85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
 100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
 115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
 130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
 145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
 165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
 Page 111

180 185 190

His	Leu	Pro	Gln	Pro	Val	Ser	Thr	Arg	Ser	Gln	His	Thr	Gln	Pro	Thr
	195						200					205			
Pro	Glu	Pro	Ser	Thr	Ala	Pro	Ser	Thr	Ser	Phe	Leu	Leu	Pro	Met	Gly
	210					215					220				
Pro	Ser	Pro	Pro	Ala	Glu	Gly	Ser	Thr	Gly	Asp	Gly	Cys	Xaa	Asp	Lys
	225				230					235					240
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
				245					250					255	
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
			260					265					270		
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
		275					280					285			
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
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Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
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Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
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Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
			340					345					350		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
		355					360					365			
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr
	370					375					380				
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
	385				390					395					400
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
				405					410					415	
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys
			420					425					430		

150313_0893_86150_PCT_Sequence_Listing_REB

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
435 440 445

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
450 455 460

Lys
465

<210> 113
<211> 465
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide with internal non-peptidyl moiety.
TNR1B-alkyne-azide-PEG4-Fc6

<220>
<221> SITE
<222> (238)..(238)
<223> Xaa = non-peptidyl moiety containing PEG4 linker

<400> 113

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
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Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr
195 200 205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
210 215 220

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Gly Cys Xaa Asp Lys
225 230 235 240

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
245 250 255

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
260 265 270

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
275 280 285

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
290 295 300

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
305 310 315 320

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
325 330 335

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
340 345 350

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
355 360 365

Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
370 375 380

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu

385

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
405 410 415

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
420 425 430

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
435 440 445

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
450 455 460

Lys
465

<210> 114
<211> 467
<212> PRT
<213> Artificial Sequence

<220>
<223> Etanercept

<400> 114

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Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
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Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
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Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
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Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
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Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
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Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
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Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
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Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
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Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
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Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser

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370

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150313_0893_86150_PCT_Sequence_Listing_REB

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gtggacacga cctccgacca ctccggctac agctcgtcca ggccgcgcac ccacaccag	2760
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gctacagagt tcttgaagt gtggcctaac tacggctaca ctagaagaac agtatttggt	4380
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150313_0893_86150_PCT_Sequence_Listing_REB

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gcaataaaat atctttatct tcattacatc tgtgtgttgg ttttttgtgt gaatcgtaac 4680
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<210> 118
 <211> 234
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-kappa light chain of adalimumab

<400> 118

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Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
1          5          10          15

Val Thr Asn Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
          20          25          30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly
          35          40          45

Ile Arg Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
          50          55          60

Lys Leu Leu Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser
65          70          75          80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
          85          90          95

Ser Leu Gln Pro Glu Asp Val Ala Thr Tyr Tyr Cys Gln Arg Tyr Asn
          100          105          110

Arg Ala Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
          115          120          125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
          130          135          140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
145          150          155          160

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150313_0893_86150_PCT_Sequence_Listing_REB

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> 119
<211> 214
<212> PRT
<213> Artificial Sequence

<220>
<223> mature kappa light chain of adalimumab
<400> 119

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
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150313_0893_86150_PCT_Sequence_Listing_REB

130

135

140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 120

<211> 448

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain-intein chimeric polypeptide

<400> 120

Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
1 5 10 15

Val Thr Asn Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
20 25 30

Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
35 40 45

Phe Asp Asp Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Val Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr
65 70 75 80

Ala Asp Ser Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

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

150313_0893_86150_PCT_Sequence_Listing_REB

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
130 135 140

Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
145 150 155 160

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
165 170 175

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
180 185 190

Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
195 200 205

Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
210 215 220

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
225 230 235 240

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Val Ser Gly Asp Thr Ile
245 250 255

Val Met Thr Ser Gly Gly Pro Arg Thr Val Ala Glu Leu Glu Gly Lys
260 265 270

Pro Phe Thr Ala Leu Ile Arg Gly Ser Gly Tyr Pro Cys Pro Ser Gly
275 280 285

Phe Phe Arg Thr Cys Glu Arg Asp Val Tyr Asp Leu Arg Thr Arg Glu
290 295 300

Gly His Cys Leu Arg Leu Thr His Asp His Arg Val Leu Val Met Asp
305 310 315 320

Gly Gly Leu Glu Trp Arg Ala Ala Gly Glu Leu Glu Arg Gly Asp Arg
325 330 335

Leu Val Met Asp Asp Ala Ala Gly Glu Phe Pro Ala Leu Ala Thr Phe
340 345 350

Arg Gly Leu Arg Gly Ala Gly Arg Gln Asp Val Tyr Asp Ala Thr Val
355 360 365

Tyr Gly Ala Ser Ala Phe Thr Ala Asn Gly Phe Ile Val His Ala Cys

150313_0893_86150_PCT_Sequence_Listing_REB

370

375

380

Gly Glu Gln Pro Gly Thr Gly Leu Asn Ser Gly Leu Thr Thr Asn Pro
385 390 395 400

Gly Val Ser Ala Trp Gln Val Asn Thr Ala Tyr Thr Ala Gly Gln Leu
405 410 415

Val Thr Tyr Asn Gly Lys Thr Tyr Lys Cys Leu Gln Pro His Thr Ser
420 425 430

Leu Ala Gly Trp Glu Pro Ser Asn Val Pro Ala Leu Trp Gln Leu Gln
435 440 445

<210> 121

<211> 428

<212> PRT

<213> Artificial Sequence

<220>

<223> mature heavy chain-intein fusion protein

<400> 121

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

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

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

Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	145	150	155	160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	165	170	175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	180	185	190	
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	195	200	205	
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	210	215	220	
Asp	Lys	Thr	His	Thr	Cys	Val	Ser	Gly	Asp	Thr	Ile	Val	Met	Thr	Ser	225	230	235	240
Gly	Gly	Pro	Arg	Thr	Val	Ala	Glu	Leu	Glu	Gly	Lys	Pro	Phe	Thr	Ala	245	250	255	
Leu	Ile	Arg	Gly	Ser	Gly	Tyr	Pro	Cys	Pro	Ser	Gly	Phe	Phe	Arg	Thr	260	265	270	
Cys	Glu	Arg	Asp	Val	Tyr	Asp	Leu	Arg	Thr	Arg	Glu	Gly	His	Cys	Leu	275	280	285	
Arg	Leu	Thr	His	Asp	His	Arg	Val	Leu	Val	Met	Asp	Gly	Gly	Leu	Glu	290	295	300	
Trp	Arg	Ala	Ala	Gly	Glu	Leu	Glu	Arg	Gly	Asp	Arg	Leu	Val	Met	Asp	305	310	315	320
Asp	Ala	Ala	Gly	Glu	Phe	Pro	Ala	Leu	Ala	Thr	Phe	Arg	Gly	Leu	Arg	325	330	335	
Gly	Ala	Gly	Arg	Gln	Asp	Val	Tyr	Asp	Ala	Thr	Val	Tyr	Gly	Ala	Ser	340	345	350	
Ala	Phe	Thr	Ala	Asn	Gly	Phe	Ile	Val	His	Ala	Cys	Gly	Glu	Gln	Pro	355	360	365	
Gly	Thr	Gly	Leu	Asn	Ser	Gly	Leu	Thr	Thr	Asn	Pro	Gly	Val	Ser	Ala	370	375	380	
Trp	Gln	Val	Asn	Thr	Ala	Tyr	Thr	Ala	Gly	Gln	Leu	Val	Thr	Tyr	Asn				

385

Gly Lys Thr Tyr Lys Cys Leu Gln Pro His Thr Ser Leu Ala Gly Trp
405 410 415

Glu Pro Ser Asn Val Pro Ala Leu Trp Gln Leu Gln
420 425

<210> 122
<211> 449
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-heavy chain-intein chimeric polypeptide
<400> 122

Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
1 5 10 15

Val Thr Asn Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
20 25 30

Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
35 40 45

Phe Asp Asp Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Val Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr
65 70 75 80

Ala Asp Ser Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

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

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
130 135 140

Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
145 150 155 160

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
180 185 190

Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
195 200 205

Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
210 215 220

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
225 230 235 240

Pro Lys Ser Cys Asp Lys Thr His Thr Gly Cys Val Ser Gly Asp Thr
245 250 255

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

Lys Pro Phe Thr Ala Leu Ile Arg Gly Ser Gly Tyr Pro Cys Pro Ser
275 280 285

Gly Phe Phe Arg Thr Cys Glu Arg Asp Val Tyr Asp Leu Arg Thr Arg
290 295 300

Glu Gly His Cys Leu Arg Leu Thr His Asp His Arg Val Leu Val Met
305 310 315 320

Asp Gly Gly Leu Glu Trp Arg Ala Ala Gly Glu Leu Glu Arg Gly Asp
325 330 335

Arg Leu Val Met Asp Asp Ala Ala Gly Glu Phe Pro Ala Leu Ala Thr
340 345 350

Phe Arg Gly Leu Arg Gly Ala Gly Arg Gln Asp Val Tyr Asp Ala Thr
355 360 365

Val Tyr Gly Ala Ser Ala Phe Thr Ala Asn Gly Phe Ile Val His Ala
370 375 380

Cys Gly Glu Gln Pro Gly Thr Gly Leu Asn Ser Gly Leu Thr Thr Asn
385 390 395 400

Pro Gly Val Ser Ala Trp Gln Val Asn Thr Ala Tyr Thr Ala Gly Gln
405 410 415

Leu Val Thr Tyr Asn Gly Lys Thr Tyr Lys Cys Leu Gln Pro His Thr

150313_0893_86150_PCT_Sequence_Listing_REB

420

425

430

Ser Leu Ala Gly Trp Glu Pro Ser Asn Val Pro Ala Leu Trp Gln Leu
435 440 445

Gln

<210> 123

<211> 429

<212> PRT

<213> Artificial Sequence

<220>

<223> mature heavy chain-intein fusion protein

<400> 123

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

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

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

Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	
			180					185					190			
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	
		195					200					205				
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	
	210					215					220					
Asp	Lys	Thr	His	Thr	Gly	Cys	Val	Ser	Gly	Asp	Thr	Ile	Val	Met	Thr	
225					230					235					240	
Ser	Gly	Gly	Pro	Arg	Thr	Val	Ala	Glu	Leu	Glu	Gly	Lys	Pro	Phe	Thr	
				245					250					255		
Ala	Leu	Ile	Arg	Gly	Ser	Gly	Tyr	Pro	Cys	Pro	Ser	Gly	Phe	Phe	Arg	
			260					265					270			
Thr	Cys	Glu	Arg	Asp	Val	Tyr	Asp	Leu	Arg	Thr	Arg	Glu	Gly	His	Cys	
		275					280					285				
Leu	Arg	Leu	Thr	His	Asp	His	Arg	Val	Leu	Val	Met	Asp	Gly	Gly	Leu	
	290					295					300					
Glu	Trp	Arg	Ala	Ala	Gly	Glu	Leu	Glu	Arg	Gly	Asp	Arg	Leu	Val	Met	
305					310					315					320	
Asp	Asp	Ala	Ala	Gly	Glu	Phe	Pro	Ala	Leu	Ala	Thr	Phe	Arg	Gly	Leu	
				325					330					335		
Arg	Gly	Ala	Gly	Arg	Gln	Asp	Val	Tyr	Asp	Ala	Thr	Val	Tyr	Gly	Ala	
			340					345					350			
Ser	Ala	Phe	Thr	Ala	Asn	Gly	Phe	Ile	Val	His	Ala	Cys	Gly	Glu	Gln	
		355					360					365				
Pro	Gly	Thr	Gly	Leu	Asn	Ser	Gly	Leu	Thr	Thr	Asn	Pro	Gly	Val	Ser	
	370					375					380					
Ala	Trp	Gln	Val	Asn	Thr	Ala	Tyr	Thr	Ala	Gly	Gln	Leu	Val	Thr	Tyr	
385					390					395					400	
Asn	Gly	Lys	Thr	Tyr	Lys	Cys	Leu	Gln	Pro	His	Thr	Ser	Leu	Ala	Gly	
				405					410					415		
Trp	Glu	Pro	Ser	Asn	Val	Pro	Ala	Leu	Trp	Gln	Leu	Gln				

420

425

<210> 124
 <211> 230
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Part of alkyne-modified adalimumab Fab-1 protein. Modified at C-Terminus.

<220>
 <221> SITE
 <222> (230)..(230)
 <223> Xaa = cysteine-alkyne

<400> 124

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

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

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

Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
 50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Xaa
225 230

<210> 125
<211> 231
<212> PRT
<213> Artificial Sequence

<220>
<223> Part of alkyne-modified adalimumab Fab-2 protein. Motified at C-Terminus

<220>
<221> SITE
<222> (131)..(131)
<223> Xaa = cysteine-alkyne

<220>
<221> misc_feature
<222> (231)..(231)
<223> Xaa can be any naturally occurring amino acid

<400> 125

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

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

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

Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
50 55 60

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

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

150313_0893_86150_PCT_Sequence_Listing_REB

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

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Gly Xaa
225 230

<210> 126
<211> 230
<212> PRT
<213> Artificial Sequence

<220>
<223> Part of azide-modified adalimumab Fab-1 protein. Modified C-Terminus

<220>
<221> SITE
<222> (230)..(230)
<223> Xaa = cysteine-azide

<400> 126

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

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

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

150313_0893_86150_PCT_Sequence_Listing_REB

Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Xaa
225 230

<210> 127
<211> 231
<212> PRT
<213> Artificial Sequence

<220>
<223> Part of azide-modified adalimumab Fab-2 protein. Modified
C-Terminus

<220>
<221> SITE
<222> (231)..(231)

150313_0893_86150_PCT_Sequence_Listing_REB

<223> Xaa = cysteine-azide

<400> 127

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

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

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

Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Gly Xaa
225 230

150313_0893_86150_PCT_Sequence_Listing_REB

<210> 128
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 128

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

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

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

Phe Asn Arg Gly Glu Cys
 210

150313_0893_86150_PCT_Sequence_Listing_REB

<210> 129
 <211> 450
 <212> PRT
 <213> Homo sapiens

<400> 129

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

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

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35          40          45

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

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

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

Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln
          100          105          110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
          115          120          125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
130          135          140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145          150          155          160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
          165          170          175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
          180          185          190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
195          200          205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
210          215          220
    
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150313_0893_86150_PCT_Sequence_Listing_REB

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 225 230 235 240
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 245 250 255
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 260 265 270
 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 275 280 285
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 290 295 300
 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 305 310 315 320
 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 325 330 335
 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 340 345 350
 Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
 355 360 365
 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 370 375 380
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 385 390 395 400
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
 405 410 415
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
 420 425 430
 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
 435 440 445
 Gly Lys
 450

<210> 130
 <211> 215

150313_0893_86150_PCT_Sequence_Listing_REB

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence C

<400> 130

Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

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

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro
85 90 95

Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
100 105 110

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
115 120 125

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
130 135 140

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
145 150 155 160

Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
165 170 175

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
180 185 190

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
195 200 205

Ser Phe Asn Arg Gly Glu Cys
210 215

150313_0893_86150_PCT_Sequence_Listing_REB

<210> 131
 <211> 238
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> pre-light chimeric polypeptide having SHH signal peptide

 <400> 131

 Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
 1 5 10 15

 Leu Val Cys Ser Gly Leu Ala Cys Asp Ile Gln Met Thr Gln Ser Pro
 20 25 30

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

 Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro
 50 55 60

 Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser
 65 70 75 80

 Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr
 85 90 95

 Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
 100 105 110

 Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
 115 120 125

 Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
 130 135 140

 Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu
 145 150 155 160

 Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
 165 170 175

 Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser
 180 185 190

 Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
 195 200 205

150313_0893_86150_PCT_Sequence_Listing_REB

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 132

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having IFN signal peptide

<400> 132

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Ile Gln Met Thr Gln Ser Pro
20 25 30

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

Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro
50 55 60

Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser
65 70 75 80

Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr
85 90 95

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
100 105 110

Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
115 120 125

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
130 135 140

Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu
145 150 155 160

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser

150313_0893_86150_PCT_Sequence_Listing_REB

180

185

190

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
195 200 205

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 133

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having CETP signal peptide

<400> 133

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser
20 25 30

Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Asn
35 40 45

Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
50 55 60

Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe
65 70 75 80

Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
85 90 95

Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr
100 105 110

Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val
115 120 125

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
130 135 140

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
145 150 155 160

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
165 170 175

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
180 185 190

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
195 200 205

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
210 215 220

Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> 134

<211> 216

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence CP

<400> 134

Cys Pro Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser
1 5 10 15

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

Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
35 40 45

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

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

Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr
85 90 95

Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val
100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
115 120 125

150313_0893_86150_PCT_Sequence_Listing_REB

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
130 135 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
145 150 155 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
165 170 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
180 185 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
195 200 205

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 135

<211> 239

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 135

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Asp Ile Gln Met Thr Gln Ser
20 25 30

Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
35 40 45

Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys
50 55 60

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr
65 70 75 80

Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe
85 90 95

Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr
100 105 110

150313_0893_86150_PCT_Sequence_Listing_REB

Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys
115 120 125

Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
130 135 140

Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
145 150 155 160

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
165 170 175

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
180 185 190

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
195 200 205

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
210 215 220

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 136
<211> 239
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-light chimeric polypeptide having IFN signal peptide
<400> 136

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Asp Ile Gln Met Thr Gln Ser
20 25 30

Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
35 40 45

Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys
50 55 60

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr
65 70 75 80

Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe
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150313_0893_86150_PCT_Sequence_Listing_REB

85

90

95

Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr
100 105 110

Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys
115 120 125

Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
130 135 140

Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
145 150 155 160

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
165 170 175

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
180 185 190

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
195 200 205

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
210 215 220

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 137

<211> 233

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having CETP signal peptide

<400> 137

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
20 25 30

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val
35 40 45

Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
50 55 60

150313_0893_86150_PCT_Sequence_Listing_REB

Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg
65 70 75 80

Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
85 90 95

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr
100 105 110

Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
115 120 125

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
130 135 140

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
145 150 155 160

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
165 170 175

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
180 185 190

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
195 200 205

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
210 215 220

Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> 138

<211> 217

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence CPP

<400> 138

Cys Pro Pro Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
1 5 10 15

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val
20 25 30

150313_0893_86150_PCT_Sequence_Listing_REB

Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
35 40 45

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

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

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr
85 90 95

Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
115 120 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
130 135 140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
195 200 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 139

<211> 240

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 139

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

150313_0893_86150_PCT_Sequence_Listing_REB

Leu Val Cys Ser Gly Leu Ala Cys Pro Pro Asp Ile Gln Met Thr Gln
20 25 30

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu
65 70 75 80

Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
100 105 110

Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr
115 120 125

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
130 135 140

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
165 170 175

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
195 200 205

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235 240

<210> 140

<211> 240

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having IFN signal peptide

150313_0893_86150_PCT_Sequence_Listing_REB

<400> 140

Met	Ala	Leu	Thr	Phe	Ala	Leu	Leu	Val	Ala	Leu	Leu	Val	Leu	Ser	Cys	1	5	10	15
Lys	Ser	Ser	Cys	Ser	Val	Gly	Cys	Pro	Pro	Asp	Ile	Gln	Met	Thr	Gln	20	25	30	
Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	35	40	45	
Cys	Arg	Ala	Ser	Gln	Asp	Val	Asn	Thr	Ala	Val	Ala	Trp	Tyr	Gln	Gln	50	55	60	
Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Ser	Ala	Ser	Phe	Leu	65	70	75	80
Tyr	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Arg	Ser	Gly	Thr	Asp	85	90	95	
Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	100	105	110	
Tyr	Cys	Gln	Gln	His	Tyr	Thr	Thr	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	115	120	125	
Lys	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	130	135	140	
Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	145	150	155	160
Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	165	170	175	
Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	180	185	190	
Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	195	200	205	
Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	210	215	220	
Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys	225	230	235	240

150313_0893_86150_PCT_Sequence_Listing_REB

<210> 141
 <211> 234
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-light chimeric polypeptide having CETP signal peptide

<400> 141

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
 1 5 10 15

Ala Cys Pro Pro Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
 20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp
 35 40 45

Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
 50 55 60

Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser
 65 70 75 80

Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
 85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr
 100 105 110

Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro

210

215

220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> 142
 <211> 217
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trastuzumab light chain having the N-terminal sequence CPR

<400> 142

Cys Pro Arg Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
 1 5 10 15

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val
 20 25 30

Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
 35 40 45

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

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

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr
 85 90 95

Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
 100 105 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
 115 120 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
 130 135 140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
 145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
 165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
 180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
195 200 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 143

<211> 240

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 143

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Arg Asp Ile Gln Met Thr Gln
20 25 30

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu
65 70 75 80

Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
100 105 110

Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr
115 120 125

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
130 135 140

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
195 200 205

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235 240

<210> 144

<211> 240

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having IFN signal peptide

<400> 144

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Arg Asp Ile Gln Met Thr Gln
20 25 30

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu
65 70 75 80

Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
100 105 110

Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr
115 120 125

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
165 170 175

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
195 200 205

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235 240

<210> 145
<211> 234
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-light chimeric polypeptide having CETP signal peptide
<400> 145

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Arg Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp
35 40 45

Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
50 55 60

Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr
100 105 110

Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
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115

120

125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> 146

<211> 217

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence CPS

<400> 146

Cys Pro Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
1 5 10 15

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val
20 25 30

Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
35 40 45

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

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

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr
85 90 95

150313_0893_86150_PCT_Sequence_Listing_REB

Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
115 120 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
130 135 140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
195 200 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 147
<211> 240
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 147

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Ser Asp Ile Gln Met Thr Gln
20 25 30

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu
65 70 75 80

150313_0893_86150_PCT_Sequence_Listing_REB

Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
100 105 110

Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr
115 120 125

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
130 135 140

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
165 170 175

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
195 200 205

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235 240

<210> 148

<211> 240

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having IFN signal peptide

<400> 148

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Ser Asp Ile Gln Met Thr Gln
20 25 30

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

150313_0893_86150_PCT_Sequence_Listing_REB

Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu
65 70 75 80

Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
100 105 110

Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr
115 120 125

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
130 135 140

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
165 170 175

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
195 200 205

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235 240

<210> 149

<211> 234

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having CETP signal peptide

<400> 149

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
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20

25

30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp
35 40 45

Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
50 55 60

Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr
100 105 110

Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> 150

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence CDKT

150313_0893_86150_PCT_Sequence_Listing_REB

<400> 150

Cys Asp Lys Thr Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
1 5 10 15

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp
20 25 30

Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
35 40 45

Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser
50 55 60

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

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr
85 90 95

Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
130 135 140

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 151

<211> 241

<212> PRT

<213> Artificial Sequence

150313_0893_86150_PCT_Sequence_Listing_REB

<220>

<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 151

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Asp Lys Thr Asp Ile Gln Met Thr
20 25 30

Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile
35 40 45

Thr Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln
50 55 60

Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe
65 70 75 80

Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr
85 90 95

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr
100 105 110

Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly
115 120 125

Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile
130 135 140

Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val
145 150 155 160

Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys
165 170 175

Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
180 185 190

Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu
195 200 205

Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr
210 215 220

His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu
225 230 235 240

150313_0893_86150_PCT_Sequence_Listing_REB

Cys

<210> 152
 <211> 241
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pre-light chimeric polypeptide having IFN signal peptide
 <400> 152

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
 1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Lys Thr Asp Ile Gln Met Thr
 20 25 30

Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile
 35 40 45

Thr Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln
 50 55 60

Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe
 65 70 75 80

Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr
 85 90 95

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr
 100 105 110

Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly
 115 120 125

Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile
 130 135 140

Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val
 145 150 155 160

Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys
 165 170 175

Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
 180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu
195 200 205

Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr
210 215 220

His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu
225 230 235 240

Cys

<210> 153

<211> 235

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having CETP signal peptide

<400> 153

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Asp Lys Thr Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu
20 25 30

Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln
35 40 45

Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala
50 55 60

Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro
65 70 75 80

Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile
85 90 95

Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His
100 105 110

Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
115 120 125

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
145 150 155 160

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
165 170 175

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
180 185 190

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
195 200 205

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
210 215 220

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 154

<211> 220

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence CDKTHT

<400> 154

Cys Asp Lys Thr His Thr Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
1 5 10 15

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

Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45

Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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

His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
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115

120

125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
130 135 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145 150 155 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
165 170 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
180 185 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
195 200 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215 220

<210> 155

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 155

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Asp Lys Thr His Thr Asp Ile Gln
20 25 30

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

Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp
50 55 60

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala
65 70 75 80

Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser
85 90 95

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
100 105 110

150313_0893_86150_PCT_Sequence_Listing_REB

Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly
115 120 125

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

Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser
145 150 155 160

Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln
165 170 175

Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val
180 185 190

Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu
195 200 205

Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu
210 215 220

Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 156
<211> 243
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-light chimeric polypeptide having IFN signal peptide
<400> 156

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Lys Thr His Thr Asp Ile Gln
20 25 30

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

Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp
50 55 60

150313_0893_86150_PCT_Sequence_Listing_REB

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala
65 70 75 80

Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser
85 90 95

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
100 105 110

Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly
115 120 125

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

Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser
145 150 155 160

Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln
165 170 175

Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val
180 185 190

Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu
195 200 205

Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu
210 215 220

Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 157

<211> 237

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having CETP signal peptide

<400> 157

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

150313_0893_86150_PCT_Sequence_Listing_REB

Ala Cys Asp Lys Thr His Thr Asp Ile Gln Met Thr Gln Ser Pro Ser
20 25 30

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

Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly
50 55 60

Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly
65 70 75 80

Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu
85 90 95

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
100 105 110

Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu
115 120 125

Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser
130 135 140

Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn
145 150 155 160

Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
165 170 175

Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys
180 185 190

Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp
195 200 205

Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu
210 215 220

Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 158

<211> 217

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence CVE

150313_0893_86150_PCT_Sequence_Listing_REB

<400> 158

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Cys Val Glu Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
1      5      10      15

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val
      20      25      30

Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
      35      40      45

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

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

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr
      85      90      95

Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
      100      105      110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
      115      120      125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
      130      135      140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145      150      155      160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
      165      170      175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
      180      185      190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
      195      200      205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
      210      215

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<210> 159

<211> 240

<212> PRT

<213> Artificial Sequence

150313_0893_86150_PCT_Sequence_Listing_REB

<220>

<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 159

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Val Glu Asp Ile Gln Met Thr Gln
20 25 30

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu
65 70 75 80

Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
100 105 110

Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr
115 120 125

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
130 135 140

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
165 170 175

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
195 200 205

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
Page 175

225

<210> 160
<211> 240
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-light chimeric polypeptide having IFN signal peptide
<400> 160

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Val Glu Asp Ile Gln Met Thr Gln
20 25 30

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu
65 70 75 80

Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
100 105 110

Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr
115 120 125

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
130 135 140

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
165 170 175

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
195 200 205

150313_0893_86150_PCT_Sequence_Listing_REB

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235 240

<210> 161

<211> 234

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having CETP signal peptide

<400> 161

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Val Glu Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp
35 40 45

Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
50 55 60

Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr
100 105 110

Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> 162

<211> 220

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab light chain having the N-terminal sequence CDTPPP

<400> 162

Cys Asp Thr Pro Pro Pro Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
1 5 10 15

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

Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45

Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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

His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145 150 155 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
165 170 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
180 185 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
195 200 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215 220

<210> 163

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having SHH signal peptide

<400> 163

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Asp Thr Pro Pro Pro Asp Ile Gln
20 25 30

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

Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp
50 55 60

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala
65 70 75 80

Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser
85 90 95

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
100 105 110

Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly
115 120 125

Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val
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130

135

140

Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser
145 150 155 160

Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln
165 170 175

Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val
180 185 190

Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu
195 200 205

Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu
210 215 220

Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 164

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-light chimeric polypeptide having IFN signal peptide

<400> 164

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Thr Pro Pro Pro Asp Ile Gln
20 25 30

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

Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Asn Thr Ala Val Ala Trp
50 55 60

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala
65 70 75 80

Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Arg Ser
85 90 95

150313_0893_86150_PCT_Sequence_Listing_REB

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
100 105 110

Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro Thr Phe Gly
115 120 125

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

Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser
145 150 155 160

Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln
165 170 175

Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val
180 185 190

Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu
195 200 205

Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu
210 215 220

Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 165
<211> 237
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-light chimeric polypeptide having CETP signal peptide

<400> 165

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Asp Thr Pro Pro Pro Asp Ile Gln Met Thr Gln Ser Pro Ser
20 25 30

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

150313_0893_86150_PCT_Sequence_Listing_REB

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Ser  Gln Asp Val Asn Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly
  50              55              60

Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Phe Leu Tyr Ser Gly
  65              70              75              80

Val Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu
              85              90              95

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
      100              105              110

Gln His Tyr Thr Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu
      115              120              125

Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser
      130              135              140

Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn
      145              150              155              160

Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
              165              170              175

Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys
      180              185              190

Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp
      195              200              205

Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu
      210              215              220

Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
      225              230              235

<210>  166
<211>  451
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Trastuzumab heavy chain having the N-terminal sequence C

<400>  166

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

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150313_0893_86150_PCT_Sequence_Listing_REB

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

Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
35 40 45

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

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

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

Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225 230 235 240

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
245 250 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
260 265 270

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
275 280 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
290 295 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305 310 315 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
325 330 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
340 345 350

Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
355 360 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
370 375 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385 390 395 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
420 425 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
435 440 445

Pro Gly Lys
450

<210> 167

<211> 474

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 167

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

150313_0893_86150_PCT_Sequence_Listing_REB

Leu Val Cys Ser Gly Leu Ala Cys Glu Val Gln Leu Val Glu Ser Gly
20 25 30

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
35 40 45

Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala
50 55 60

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly
65 70 75 80

Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala
85 90 95

Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala
100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe
115 120 125

Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135 140

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
145 150 155 160

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
165 170 175

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
180 185 190

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
195 200 205

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
210 215 220

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
225 230 235 240

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
245 250 255

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
260 265 270

150313_0893_86150_PCT_Sequence_Listing_REB

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
275 280 285

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
290 295 300

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
305 310 315 320

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
325 330 335

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
340 345 350

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
355 360 365

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
370 375 380

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
385 390 395 400

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
405 410 415

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
420 425 430

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
435 440 445

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
450 455 460

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470

<210> 168

<211> 474

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 168

150313_0893_86150_PCT_Sequence_Listing_REB

Met	Ala	Leu	Thr	Phe	Ala	Leu	Leu	Val	Ala	Leu	Leu	Val	Leu	Ser	Cys
1				5					10					15	
Lys	Ser	Ser	Cys	Ser	Val	Gly	Cys	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly
			20					25					30		
Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala
		35					40					45			
Ser	Gly	Phe	Asn	Ile	Lys	Asp	Thr	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala
	50					55					60				
Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ala	Arg	Ile	Tyr	Pro	Thr	Asn	Gly
65					70					75					80
Tyr	Thr	Arg	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Ala
				85					90					95	
Asp	Thr	Ser	Lys	Asn	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala
			100					105					110		
Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp	Gly	Phe
		115					120					125			
Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
	130					135					140				
Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys
145					150					155					160
Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr
			165						170					175	
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
			180					185					190		
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
		195					200					205			
Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr
	210					215					220				
Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
225					230					235					240
Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys
				245					250					255	

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
260 265 270

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
275 280 285

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
290 295 300

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
305 310 315 320

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
325 330 335

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
340 345 350

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
355 360 365

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
370 375 380

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
385 390 395 400

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
405 410 415

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
420 425 430

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
435 440 445

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
450 455 460

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470

<210> 169

<211> 468

<212> PRT

<213> Artificial Sequence

<220>

150313_0893_86150_PCT_Sequence_Listing_REB

<223> pre-heavy chain chimeric polypeptide having CETP signal peptide

<400> 169

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
20 25 30

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys
35 40 45

Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala Asp
65 70 75 80

Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr
85 90 95

Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
100 105 110

Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp
115 120 125

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

Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
145 150 155 160

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
165 170 175

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
180 185 190

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
195 200 205

Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
210 215 220

His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser
225 230 235 240

150313_0893_86150_PCT_Sequence_Listing_REB

Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	
				245					250					255		
Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	
			260					265					270			
Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	
		275					280					285				
His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	
	290					295					300					
Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	
305					310					315					320	
Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	
				325					330					335		
Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	
			340					345					350			
Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	
		355					360					365				
Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	
	370					375					380					
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	
385					390					395					400	
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	
				405					410					415		
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	
			420					425					430			
Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	
		435					440					445				
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	
	450					455					460					
Ser	Pro	Gly	Lys													
465																

<210> 170
<211> 452

150313_0893_86150_PCT_Sequence_Listing_REB

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab heavy chain having the N-terminal sequence CP

<400> 170

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

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys
20 25 30

Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

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

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

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

Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
115 120 125

Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
130 135 140

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
145 150 155 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
165 170 175

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
180 185 190

Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
195 200 205

His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser
210 215 220

150313_0893_86150_PCT_Sequence_Listing_REB

Cys 225	Asp	Lys	Thr	His	Thr 230	Cys	Pro	Pro	Cys	Pro 235	Ala	Pro	Glu	Leu	Leu 240
Gly	Gly	Pro	Ser	Val 245	Phe	Leu	Phe	Pro	Pro 250	Lys	Pro	Lys	Asp	Thr 255	Leu
Met	Ile	Ser	Arg 260	Thr	Pro	Glu	Val	Thr 265	Cys	Val	Val	Val	Asp 270	Val	Ser
His	Glu	Asp 275	Pro	Glu	Val	Lys	Phe 280	Asn	Trp	Tyr	Val	Asp 285	Gly	Val	Glu
Val	His 290	Asn	Ala	Lys	Thr	Lys 295	Pro	Arg	Glu	Glu	Gln 300	Tyr	Asn	Ser	Thr
Tyr 305	Arg	Val	Val	Ser	Val 310	Leu	Thr	Val	Leu	His 315	Gln	Asp	Trp	Leu	Asn 320
Gly	Lys	Glu	Tyr	Lys 325	Cys	Lys	Val	Ser	Asn 330	Lys	Ala	Leu	Pro	Ala 335	Pro
Ile	Glu	Lys	Thr 340	Ile	Ser	Lys	Ala	Lys 345	Gly	Gln	Pro	Arg	Glu 350	Pro	Gln
Val	Tyr	Thr 355	Leu	Pro	Pro	Ser	Arg 360	Asp	Glu	Leu	Thr	Lys 365	Asn	Gln	Val
Ser	Leu 370	Thr	Cys	Leu	Val	Lys 375	Gly	Phe	Tyr	Pro	Ser 380	Asp	Ile	Ala	Val
Glu 385	Trp	Glu	Ser	Asn	Gly 390	Gln	Pro	Glu	Asn	Asn 395	Tyr	Lys	Thr	Thr	Pro 400
Pro	Val	Leu	Asp	Ser 405	Asp	Gly	Ser	Phe	Phe 410	Leu	Tyr	Ser	Lys	Leu 415	Thr
Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly 425	Asn	Val	Phe	Ser	Cys 430	Ser	Val
Met	His 435	Glu	Ala	Leu	His	Asn	His 440	Tyr	Thr	Gln	Lys	Ser 445	Leu	Ser	Leu
Ser	Pro	Gly	Lys												

<210> 171
<211> 475

150313_0893_86150_PCT_Sequence_Listing_REB

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 171

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Glu Val Gln Leu Val Glu Ser
20 25 30

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
35 40 45

Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln
50 55 60

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn
65 70 75 80

Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
85 90 95

Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg
100 105 110

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly
115 120 125

Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
130 135 140

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
145 150 155 160

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
165 170 175

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
180 185 190

Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
195 200 205

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
210 215 220

150313_0893_86150_PCT_Sequence_Listing_REB

Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp
225					230					235					240
Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
				245					250					255	
Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			260					265					270		
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
		275					280					285			
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
	290					295					300				
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
305					310					315					320
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
				325					330					335	
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
			340					345					350		
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
		355					360					365			
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp
	370					375					380				
Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
385					390					395					400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
				405					410					415	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			420					425					430		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
		435					440					445			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	450					455					460				
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
465					470					475					

150313_0893_86150_PCT_Sequence_Listing_REB

<210> 172
 <211> 475
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> pre-heavy chain chimeric polypeptide having IFN signal peptide

 <400> 172

 Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
 1 5 10 15

 Lys Ser Ser Cys Ser Val Gly Cys Pro Glu Val Gln Leu Val Glu Ser
 20 25 30

 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 35 40 45

 Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln
 50 55 60

 Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn
 65 70 75 80

 Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 85 90 95

 Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg
 100 105 110

 Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly
 115 120 125

 Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 130 135 140

 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
 145 150 155 160

 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 165 170 175

 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 180 185 190

 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
 195 200 205

150313_0893_86150_PCT_Sequence_Listing_REB

Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln
210						215					220				
Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp
225					230					235					240
Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
				245					250					255	
Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			260					265					270		
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
		275					280					285			
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
	290					295					300				
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
305					310					315					320
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
				325					330					335	
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
			340					345					350		
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
		355					360					365			
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp
	370					375					380				
Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
385					390					395					400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
				405					410					415	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			420					425					430		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
		435					440					445			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	450					455					460				

150313_0893_86150_PCT_Sequence_Listing_REB

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 173
<211> 469
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-heavy chain chimeric polypeptide having CETP signal peptide
<400> 173

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile
35 40 45

Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn
85 90 95

Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
130 135 140

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
145 150 155 160

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
165 170 175

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
195 200 205

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
210 215 220

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
225 230 235 240

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
245 250 255

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
260 265 270

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
275 280 285

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
290 295 300

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
305 310 315 320

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
325 330 335

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
340 345 350

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
355 360 365

Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
370 375 380

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
385 390 395 400

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
405 410 415

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
420 425 430

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
435 440 445

150313_0893_86150_PCT_Sequence_Listing_REB

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
450 455 460

Leu Ser Pro Gly Lys
465

<210> 174
<211> 453
<212> PRT
<213> Artificial Sequence

<220>
<223> Trastuzumab heavy chain having the N-terminal sequence CPP
<400> 174

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile
20 25 30

Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
35 40 45

Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
115 120 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
130 135 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	180	185	190
Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	195	200	205
Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	210	215	220
Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	225	230	235
Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	245	250	255
Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	260	265	270
Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	275	280	285
Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	290	295	300
Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	305	310	315
Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	325	330	335
Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	340	345	350
Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	355	360	365
Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	370	375	380
Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	385	390	395
Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	405	410	415
Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	420	425	430

150313_0893_86150_PCT_Sequence_Listing_REB

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 175
<211> 476
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-heavy chain chimeric polypeptide having SHH signal peptide
<400> 175

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Pro Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr
65 70 75 80

Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
85 90 95

Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu
100 105 110

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp
115 120 125

Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	180	185	190
Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	195	200	205
Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	210	215	220
Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	225	230	240
Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	245	250	255
Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	260	265	270
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	275	280	285
Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	290	295	300
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	305	310	315
Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	325	330	335
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	340	345	350
Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	355	360	365
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	370	375	380
Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	385	390	395
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	405	410	415
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	420	425	430

150313_0893_86150_PCT_Sequence_Listing_REB

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 176

<211> 476

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 176

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Pro Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr
65 70 75 80

Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
85 90 95

Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu
100 105 110

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp
115 120 125

Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
145 150 155 160

150313_0893_86150_PCT_Sequence_Listing_REB

Ser	Lys	Ser	Thr	Ser 165	Gly	Gly	Thr	Ala	Ala 170	Leu	Gly	Cys	Leu	Val 175	Lys	
Asp	Tyr	Phe	Pro 180	Glu	Pro	Val	Thr	Val 185	Ser	Trp	Asn	Ser	Gly 190	Ala	Leu	
Thr	Ser	Gly 195	Val	His	Thr	Phe	Pro 200	Ala	Val	Leu	Gln	Ser 205	Ser	Gly	Leu	
Tyr	Ser 210	Leu	Ser	Ser	Val	Val 215	Thr	Val	Pro	Ser	Ser 220	Ser	Leu	Gly	Thr	
Gln 225	Thr	Tyr	Ile	Cys	Asn 230	Val	Asn	His	Lys	Pro 235	Ser	Asn	Thr	Lys	Val 240	
Asp	Lys	Lys	Val	Glu 245	Pro	Lys	Ser	Cys	Asp 250	Lys	Thr	His	Thr	Cys 255	Pro	
Pro	Cys	Pro	Ala 260	Pro	Glu	Leu	Leu	Gly 265	Gly	Pro	Ser	Val	Phe 270	Leu	Phe	
Pro	Pro	Lys 275	Pro	Lys	Asp	Thr	Leu 280	Met	Ile	Ser	Arg	Thr 285	Pro	Glu	Val	
Thr	Cys 290	Val	Val	Val	Asp	Val 295	Ser	His	Glu	Asp	Pro 300	Glu	Val	Lys	Phe	
Asn 305	Trp	Tyr	Val	Asp	Gly 310	Val	Glu	Val	His	Asn 315	Ala	Lys	Thr	Lys	Pro 320	
Arg	Glu	Glu	Gln	Tyr 325	Asn	Ser	Thr	Tyr	Arg 330	Val	Val	Ser	Val	Leu 335	Thr	
Val	Leu	His	Gln 340	Asp	Trp	Leu	Asn	Gly 345	Lys	Glu	Tyr	Lys	Cys 350	Lys	Val	
Ser	Asn	Lys 355	Ala	Leu	Pro	Ala	Pro 360	Ile	Glu	Lys	Thr	Ile 365	Ser	Lys	Ala	
Lys	Gly 370	Gln	Pro	Arg	Glu	Pro 375	Gln	Val	Tyr	Thr	Leu 380	Pro	Pro	Ser	Arg	
Asp 385	Glu	Leu	Thr	Lys	Asn 390	Gln	Val	Ser	Leu	Thr 395	Cys	Leu	Val	Lys	Gly 400	
Phe	Tyr	Pro	Ser	Asp 405	Ile	Ala	Val	Glu	Trp 410	Glu	Ser	Asn	Gly	Gln 415	Pro	

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 177

<211> 470

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having CETP signal peptide

<400> 177

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
20 25 30

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn
35 40 45

Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr
65 70 75 80

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys
85 90 95

Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp
115 120 125

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly
145					150					155					160
Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro
				165					170					175	
Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr
			180					185					190		
Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val
		195					200					205			
Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn
	210					215					220				
Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro
225					230					235					240
Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu
				245					250					255	
Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
			260					265					270		
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
		275					280					285			
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
	290					295					300				
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn
305					310					315					320
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp
				325					330					335	
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
			340					345					350		
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
		355					360					365			
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn
	370					375					380				
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
385					390					395					400

150313_0893_86150_PCT_Sequence_Listing_REB

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
405 410 415

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
420 425 430

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
435 440 445

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
450 455 460

Ser Leu Ser Pro Gly Lys
465 470

<210> 178
<211> 453
<212> PRT
<213> Artificial Sequence

<220>
<223> Trastuzumab heavy chain having the N-terminal sequence CPR
<400> 178

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile
20 25 30

Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
35 40 45

Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
115 120 125

Pro 130	Ser	Val	Phe	Pro	Leu	Ala 135	Pro	Ser	Ser	Lys	Ser 140	Thr	Ser	Gly	Gly
Thr 145	Ala	Ala	Leu	Gly	Cys 150	Leu	Val	Lys	Asp	Tyr 155	Phe	Pro	Glu	Pro	Val 160
Thr	Val	Ser	Trp	Asn 165	Ser	Gly	Ala	Leu	Thr 170	Ser	Gly	Val	His	Thr 175	Phe
Pro	Ala	Val	Leu 180	Gln	Ser	Ser	Gly	Leu 185	Tyr	Ser	Leu	Ser	Ser 190	Val	Val
Thr	Val	Pro 195	Ser	Ser	Ser	Leu	Gly 200	Thr	Gln	Thr	Tyr	Ile 205	Cys	Asn	Val
Asn	His 210	Lys	Pro	Ser	Asn	Thr 215	Lys	Val	Asp	Lys	Lys 220	Val	Glu	Pro	Lys
Ser 225	Cys	Asp	Lys	Thr	His 230	Thr	Cys	Pro	Pro	Cys 235	Pro	Ala	Pro	Glu	Leu 240
Leu	Gly	Gly	Pro	Ser 245	Val	Phe	Leu	Phe	Pro 250	Pro	Lys	Pro	Lys	Asp 255	Thr
Leu	Met	Ile	Ser 260	Arg	Thr	Pro	Glu	Val 265	Thr	Cys	Val	Val	Val 270	Asp	Val
Ser	His	Glu 275	Asp	Pro	Glu	Val	Lys 280	Phe	Asn	Trp	Tyr	Val 285	Asp	Gly	Val
Glu	Val 290	His	Asn	Ala	Lys	Thr 295	Lys	Pro	Arg	Glu	Glu 300	Gln	Tyr	Asn	Ser
Thr 305	Tyr	Arg	Val	Val	Ser 310	Val	Leu	Thr	Val	Leu 315	His	Gln	Asp	Trp	Leu 320
Asn	Gly	Lys	Glu	Tyr 325	Lys	Cys	Lys	Val	Ser 330	Asn	Lys	Ala	Leu	Pro 335	Ala
Pro	Ile	Glu	Lys 340	Thr	Ile	Ser	Lys	Ala 345	Lys	Gly	Gln	Pro	Arg 350	Glu	Pro
Gln	Val	Tyr 355	Thr	Leu	Pro	Pro	Ser 360	Arg	Asp	Glu	Leu	Thr 365	Lys	Asn	Gln
Val	Ser 370	Leu	Thr	Cys	Leu	Val 375	Lys	Gly	Phe	Tyr	Pro 380	Ser	Asp	Ile	Ala

150313_0893_86150_PCT_Sequence_Listing_REB

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
420 425 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 179

<211> 476

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 179

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Arg Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr
65 70 75 80

Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
85 90 95

Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu
100 105 110

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp
115 120 125

150313_0893_86150_PCT_Sequence_Listing_REB

Gly	Phe	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val
130						135					140				
Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser
145					150					155					160
Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys
				165					170					175	
Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu
			180					185					190		
Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu
		195					200					205			
Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr
	210					215					220				
Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val
225					230					235					240
Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro
				245					250					255	
Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe
			260					265					270		
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val
		275					280					285			
Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe
	290					295					300				
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
305					310					315					320
Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
				325					330					335	
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
			340					345					350		
Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
		355					360					365			
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg
	370					375					380				

150313_0893_86150_PCT_Sequence_Listing_REB

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
405 410 415

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 180

<211> 476

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 180

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Arg Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr
65 70 75 80

Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
85 90 95

Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu
100 105 110

150313_0893_86150_PCT_Sequence_Listing_REB

Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp
		115					120					125			
Gly	Phe	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val
	130					135					140				
Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser
145					150					155					160
Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys
				165					170					175	
Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu
			180					185					190		
Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu
		195					200					205			
Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr
	210					215					220				
Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val
225					230					235					240
Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro
				245					250					255	
Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe
			260					265					270		
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val
		275					280					285			
Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe
	290					295					300				
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
305					310					315					320
Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
				325					330					335	
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
			340					345					350		
Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
		355					360					365			

150313_0893_86150_PCT_Sequence_Listing_REB

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
405 410 415

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 181

<211> 470

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having CETP signal peptide

<400> 181

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Arg Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
20 25 30

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn
35 40 45

Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr
65 70 75 80

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys
85 90 95

150313_0893_86150_PCT_Sequence_Listing_REB

Asn	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	
			100					105					110			
Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp	Gly	Phe	Tyr	Ala	Met	Asp	
		115					120					125				
Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	
	130					135					140					
Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	
145					150					155					160	
Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	
				165					170					175		
Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	
			180					185					190			
Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	
		195					200					205				
Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	
	210					215					220					
Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	
225					230					235				240		
Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	
				245					250					255		
Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	
			260					265					270			
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	
		275					280					285				
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	
	290					295					300					
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	
305					310					315					320	
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	
				325					330					335		
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	
			340					345					350			

150313_0893_86150_PCT_Sequence_Listing_REB

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
355 360 365

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn
370 375 380

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
385 390 395 400

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
405 410 415

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
420 425 430

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
435 440 445

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
450 455 460

Ser Leu Ser Pro Gly Lys
465 470

<210> 182
<211> 453
<212> PRT
<213> Artificial Sequence

<220>
<223> Trastuzumab heavy chain having the N-terminal sequence CPS
<400> 182

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile
20 25 30

Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
35 40 45

Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala
50 55 60

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

150313_0893_86150_PCT_Sequence_Listing_REB

Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	85	90	95
Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp	Gly	Phe	Tyr	Ala	Met	Asp	Tyr	100	105	110
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	115	120	125
Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	130	135	140
Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	145	150	155
Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	165	170	175
Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	180	185	190
Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	195	200	205
Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	210	215	220
Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	225	230	235
Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	245	250	255
Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	260	265	270
Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	275	280	285
Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	290	295	300
Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	305	310	315
Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	325	330	335

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
340 345 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
355 360 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
370 375 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
420 425 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 183

<211> 476

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 183

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Pro Ser Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr
65 70 75 80

150313_0893_86150_PCT_Sequence_Listing_REB

Asn	Gly	Tyr	Thr	Arg	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	
				85					90					95		
Ser	Ala	Asp	Thr	Ser	Lys	Asn	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	
			100					105					110			
Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp	
		115					120					125				
Gly	Phe	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	
	130					135					140					
Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	
145					150					155					160	
Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	
				165					170					175		
Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	
			180					185					190			
Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	
		195					200					205				
Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	
	210					215					220					
Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	
225					230					235					240	
Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	
				245					250					255		
Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	
			260					265					270			
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	
		275					280					285				
Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	
	290					295					300					
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	
305					310					315					320	
Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	
				325					330					335		

150313_0893_86150_PCT_Sequence_Listing_REB

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
340 345 350

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
355 360 365

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
405 410 415

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 184

<211> 476

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 184

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Pro Ser Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

150313_0893_86150_PCT_Sequence_Listing_REB

Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ala	Arg	Ile	Tyr	Pro	Thr	65	70	75	80
Asn	Gly	Tyr	Thr	Arg	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	85	90	95	
Ser	Ala	Asp	Thr	Ser	Lys	Asn	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	100	105	110	
Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp	115	120	125	
Gly	Phe	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	130	135	140	
Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	145	150	155	160
Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	165	170	175	
Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	180	185	190	
Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	195	200	205	
Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	210	215	220	
Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	225	230	235	240
Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	245	250	255	
Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	260	265	270	
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	275	280	285	
Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	290	295	300	
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	305	310	315	320

150313_0893_86150_PCT_Sequence_Listing_REB

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
325 330 335

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
340 345 350

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
355 360 365

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
405 410 415

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 185

<211> 470

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having CETP signal peptide

<400> 185

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Pro Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
20 25 30

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn
35 40 45

150313_0893_86150_PCT_Sequence_Listing_REB

Ile	Lys	Asp	Thr	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly
	50					55					60				
Leu	Glu	Trp	Val	Ala	Arg	Ile	Tyr	Pro	Thr	Asn	Gly	Tyr	Thr	Arg	Tyr
65					70					75					80
Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Ala	Asp	Thr	Ser	Lys
				85					90					95	
Asn	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala
			100					105					110		
Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp	Gly	Phe	Tyr	Ala	Met	Asp
		115					120					125			
Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys
	130					135					140				
Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly
145					150					155					160
Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro
				165					170					175	
Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr
			180					185					190		
Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val
		195					200					205			
Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn
	210					215					220				
Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro
225					230					235				240	
Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu
				245					250					255	
Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
			260					265					270		
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
		275					280					285			
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
	290					295					300				

150313_0893_86150_PCT_Sequence_Listing_REB

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
305 310 315 320

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
325 330 335

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
340 345 350

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
355 360 365

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn
370 375 380

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
385 390 395 400

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
405 410 415

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
420 425 430

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
435 440 445

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
450 455 460

Ser Leu Ser Pro Gly Lys
465 470

<210> 186

<211> 454

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab heavy chain having the N-terminal sequence CDKT

<400> 186

Cys Asp Lys Thr Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn
20 25 30

150313_0893_86150_PCT_Sequence_Listing_REB

Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr
50 55 60

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

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

Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys
115 120 125

Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly
130 135 140

Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
145 150 155 160

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
165 170 175

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
180 185 190

Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn
195 200 205

Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro
210 215 220

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
225 230 235 240

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
245 250 255

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
260 265 270

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
275 280 285

150313_0893_86150_PCT_Sequence_Listing_REB

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
290 295 300

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
305 310 315 320

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
325 330 335

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
340 345 350

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn
355 360 365

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
370 375 380

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
385 390 395 400

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
405 410 415

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
420 425 430

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
435 440 445

Ser Leu Ser Pro Gly Lys
450

<210> 187

<211> 477

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 187

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Asp Lys Thr Glu Val Gln Leu Val
20 25 30

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
35 40 45

Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val
50 55 60

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro
65 70 75 80

Thr Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
85 90 95

Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser
100 105 110

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly
115 120 125

Asp Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
130 135 140

Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
145 150 155 160

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
165 170 175

Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
180 185 190

Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly
195 200 205

Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
210 215 220

Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
225 230 235 240

Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
245 250 255

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
260 265 270

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
275 280 285

150313_0893_86150_PCT_Sequence_Listing_REB

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
290 295 300

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
305 310 315 320

Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
325 330 335

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
340 345 350

Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
355 360 365

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
370 375 380

Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
385 390 395 400

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
405 410 415

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
420 425 430

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
435 440 445

Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
450 455 460

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 188

<211> 477

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 188

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

150313_0893_86150_PCT_Sequence_Listing_REB

Lys	Ser	Ser	Cys	Ser	Val	Gly	Cys	Asp	Lys	Thr	Glu	Val	Gln	Leu	Val
			20					25					30		
Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser
		35					40					45			
Cys	Ala	Ala	Ser	Gly	Phe	Asn	Ile	Lys	Asp	Thr	Tyr	Ile	His	Trp	Val
	50					55					60				
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ala	Arg	Ile	Tyr	Pro
65					70					75					80
Thr	Asn	Gly	Tyr	Thr	Arg	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr
				85					90					95	
Ile	Ser	Ala	Asp	Thr	Ser	Lys	Asn	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser
			100					105					110		
Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly
		115					120					125			
Asp	Gly	Phe	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr
	130					135					140				
Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro
145					150					155					160
Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val
				165					170					175	
Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala
			180					185					190		
Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly
		195					200					205			
Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly
	210					215					220				
Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys
225					230					235					240
Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys
				245					250					255	
Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu
			260					265					270		

150313_0893_86150_PCT_Sequence_Listing_REB

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
275 280 285

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
290 295 300

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
305 310 315 320

Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
325 330 335

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
340 345 350

Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
355 360 365

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
370 375 380

Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
385 390 395 400

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
405 410 415

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
420 425 430

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
435 440 445

Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
450 455 460

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 189

<211> 471

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having CETP signal peptide

<400> 189

150313_0893_86150_PCT_Sequence_Listing_REB

Met	Leu	Ala	Ala	Thr	Val	Leu	Thr	Leu	Ala	Leu	Leu	Gly	Asn	Ala	His
1				5					10					15	
Ala	Cys	Asp	Lys	Thr	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu
			20					25					30		
Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe
		35					40					45			
Asn	Ile	Lys	Asp	Thr	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys
	50					55					60				
Gly	Leu	Glu	Trp	Val	Ala	Arg	Ile	Tyr	Pro	Thr	Asn	Gly	Tyr	Thr	Arg
65					70					75					80
Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Ala	Asp	Thr	Ser
				85					90					95	
Lys	Asn	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr
			100					105					110		
Ala	Val	Tyr	Tyr	Cys	Ser	Arg	Trp	Gly	Gly	Asp	Gly	Phe	Tyr	Ala	Met
		115					120					125			
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
	130					135					140				
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
145					150					155					160
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
				165					170					175	
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				180				185					190		
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
		195					200					205			
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
	210					215					220				
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
225					230					235					240
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
				245					250					255	

150313_0893_86150_PCT_Sequence_Listing_REB

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
260 265 270

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
275 280 285

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
290 295 300

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
305 310 315 320

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
325 330 335

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
340 345 350

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
355 360 365

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
370 375 380

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
385 390 395 400

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
405 410 415

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
420 425 430

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
435 440 445

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
450 455 460

Leu Ser Leu Ser Pro Gly Lys
465 470

<210> 190
<211> 456
<212> PRT
<213> Artificial Sequence

150313_0893_86150_PCT_Sequence_Listing_REB

<220>

<223> Trastuzumab heavy chain having the N-terminal sequence CDKTHT

<400> 190

Cys Asp Lys Thr His Thr Glu Val Gln Leu Val Glu Ser Gly Gly Gly
1 5 10 15

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
20 25 30

Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly
35 40 45

Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr
50 55 60

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

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

Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala
100 105 110

Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
115 120 125

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
130 135 140

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
145 150 155 160

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
165 170 175

His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
180 185 190

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
195 200 205

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
210 215 220

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
225 230 235 240

150313_0893_86150_PCT_Sequence_Listing_REB

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
245 250 255

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
260 265 270

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
275 280 285

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
290 295 300

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
305 310 315 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 191
<211> 479
<212> PRT
<213> Artificial Sequence

150313_0893_86150_PCT_Sequence_Listing_REB

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 191

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Asp Lys Thr His Thr Glu Val Gln
20 25 30

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
35 40 45

Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His
50 55 60

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
65 70 75 80

Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg
85 90 95

Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met
100 105 110

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp
115 120 125

Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
130 135 140

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
145 150 155 160

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
165 170 175

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
180 185 190

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
195 200 205

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
210 215 220

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
225 230 235 240

150313_0893_86150_PCT_Sequence_Listing_REB

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
245 250 255

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
260 265 270

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
275 280 285

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
290 295 300

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
305 310 315 320

Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
325 330 335

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
340 345 350

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
355 360 365

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
370 375 380

Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
385 390 395 400

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
405 410 415

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
420 425 430

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
435 440 445

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
450 455 460

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 192

150313_0893_86150_PCT_Sequence_Listing_REB

<211> 479

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 192

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Lys Thr His Thr Glu Val Gln
20 25 30

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
35 40 45

Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His
50 55 60

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
65 70 75 80

Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg
85 90 95

Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met
100 105 110

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp
115 120 125

Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
130 135 140

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
145 150 155 160

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
165 170 175

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
180 185 190

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
195 200 205

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
210 215 220

150313_0893_86150_PCT_Sequence_Listing_REB

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 225 230 235 240
 Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
 245 250 255
 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
 260 265 270
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 275 280 285
 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 290 295 300
 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 305 310 315 320
 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 325 330 335
 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 340 345 350
 Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 355 360 365
 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 370 375 380
 Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 385 390 395 400
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 405 410 415
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 420 425 430
 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 435 440 445
 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 450 455 460

465

<210> 193
<211> 473
<212> PRT
<213> Artificial Sequence

<220>
<223> pre-heavy chain chimeric polypeptide having CETP signal peptide
<400> 193

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Asp Lys Thr His Thr Glu Val Gln Leu Val Glu Ser Gly Gly
20 25 30

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
35 40 45

Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro
50 55 60

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr
65 70 75 80

Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp
85 90 95

Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
100 105 110

Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr
115 120 125

Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
130 135 140

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser
145 150 155 160

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
165 170 175

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
180 185 190

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
195 200 205

150313_0893_86150_PCT_Sequence_Listing_REB

Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr
	210					215					220				
Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys
225					230					235					240
Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro
				245					250					255	
Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys
			260					265					270		
Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val
		275					280					285			
Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr
	290					295					300				
Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu
305					310					315					320
Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His
				325					330					335	
Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys
			340					345					350		
Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln
		355					360					365			
Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu
	370					375					380				
Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro
385					390					395					400
Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn
				405					410					415	
Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu
			420					425					430		
Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val
		435					440					445			
Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln

450

455

460

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> 194

<211> 453

<212> PRT

<213> Artificial Sequence

<220>

<223> Trastuzumab heavy chain having the N-terminal sequence CVE

<400> 194

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile
 20 25 30

Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 35 40 45

Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala
 50 55 60

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

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

Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
 145 150 155 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
 165 170 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
 180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
195 200 205

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
210 215 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225 230 235 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
245 250 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
260 265 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
275 280 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
290 295 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305 310 315 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
325 330 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
340 345 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
355 360 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
370 375 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
420 425 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser

150313_0893_86150_PCT_Sequence_Listing_REB

435

440

445

Leu Ser Pro Gly Lys
450

<210> 195

<211> 476

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 195

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Val Glu Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr
65 70 75 80

Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
85 90 95

Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu
100 105 110

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp
115 120 125

Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
165 170 175

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
180 185 190

150313_0893_86150_PCT_Sequence_Listing_REB

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
195 200 205

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
210 215 220

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
225 230 235 240

Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
245 250 255

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
260 265 270

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
275 280 285

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
290 295 300

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
305 310 315 320

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
325 330 335

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
340 345 350

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
355 360 365

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
405 410 415

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
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435

440

445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 196

<211> 476

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 196

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Val Glu Glu Val Gln Leu Val Glu
20 25 30

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
35 40 45

Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg
50 55 60

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr
65 70 75 80

Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
85 90 95

Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu
100 105 110

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp
115 120 125

Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
165 170 175

150313_0893_86150_PCT_Sequence_Listing_REB

Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	180	185	190
Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	195	200	205
Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	210	215	220
Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	225	230	235
Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	245	250	255
Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	260	265	270
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	275	280	285
Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	290	295	300
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	305	310	315
Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	325	330	335
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	340	345	350
Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	355	360	365
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	370	375	380
Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	385	390	395
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	405	410	415
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser			

150313_0893_86150_PCT_Sequence_Listing_REB

420

425

430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 197

<211> 470

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having CETP signal peptide

<400> 197

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Val Glu Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
20 25 30

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn
35 40 45

Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr
65 70 75 80

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys
85 90 95

Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala Met Asp
115 120 125

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys
130 135 140

Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly
145 150 155 160

150313_0893_86150_PCT_Sequence_Listing_REB

Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
165 170 175

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
180 185 190

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
195 200 205

Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn
210 215 220

Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro
225					230					235					240

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
245 250 255

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
260 265 270

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
275 280 285

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
290 295 300

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
305 310 315 320

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
325 330 335

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
340 345 350

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
355 360 365

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn
370 375 380

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
385 390 395 400

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
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Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
420 425 430

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
435 440 445

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
450 455 460

Ser Leu Ser Pro Gly Lys
465 470

<210> 198
<211> 456
<212> PRT
<213> Artificial Sequence

<220>
<223> Trastuzumab heavy chain having the N-terminal sequence CDTPPP
<400> 198

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

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
20 25 30

Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly
35 40 45

Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr
50 55 60

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

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

Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala
100 105 110

Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
115 120 125

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
130 135 140

150313_0893_86150_PCT_Sequence_Listing_REB

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
145 150 155 160

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
165 170 175

His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
180 185 190

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
195 200 205

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
210 215 220

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
225 230 235 240

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
245 250 255

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
260 265 270

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
275 280 285

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
290 295 300

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
305 310 315 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr

150313_0893_86150_PCT_Sequence_Listing_REB

385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 199

<211> 479

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having SHH signal peptide

<400> 199

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Asp Thr Pro Pro Pro Glu Val Gln
20 25 30

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
35 40 45

Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His
50 55 60

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
65 70 75 80

Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg
85 90 95

Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met
100 105 110

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp
115 120 125

Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
130 135 140

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Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu
145					150					155					160
Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys
				165					170					175	
Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser
			180					185					190		
Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser
		195					200					205			
Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser
	210					215					220				
Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn
225					230					235					240
Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His
				245					250					255	
Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val
			260					265					270		
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr
		275					280					285			
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu
	290					295					300				
Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys
305					310					315					320
Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser
				325					330					335	
Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys
			340					345					350		
Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile
		355					360					365			
Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro
	370					375					380				
Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu

385

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
405 410 415

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
420 425 430

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
435 440 445

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
450 455 460

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 200

<211> 479

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having IFN signal peptide

<400> 200

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Thr Pro Pro Pro Glu Val Gln
20 25 30

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
35 40 45

Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr Ile His
50 55 60

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
65 70 75 80

Tyr Pro Thr Asn Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg
85 90 95

Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met
100 105 110

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp
115 120 125

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Gly Gly Asp Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
130 135 140

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
145 150 155 160

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
165 170 175

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
180 185 190

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
195 200 205

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
210 215 220

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
225 230 235 240

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
245 250 255

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
260 265 270

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
275 280 285

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
290 295 300

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
305 310 315 320

Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
325 330 335

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
340 345 350

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
355 360 365

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro

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370

375

380

Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
385 390 395 400

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
405 410 415

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
420 425 430

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
435 440 445

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
450 455 460

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 201

<211> 473

<212> PRT

<213> Artificial Sequence

<220>

<223> pre-heavy chain chimeric polypeptide having CETP signal peptide

<400> 201

Met Leu Ala Ala Thr Val Leu Thr Leu Ala Leu Leu Gly Asn Ala His
1 5 10 15

Ala Cys Asp Thr Pro Pro Pro Glu Val Gln Leu Val Glu Ser Gly Gly
20 25 30

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
35 40 45

Gly Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro
50 55 60

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr
65 70 75 80

Thr Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp
85 90 95

Thr Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
100 105 110

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Asp Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr
115 120 125

Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
130 135 140

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser
145 150 155 160

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
165 170 175

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
180 185 190

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
195 200 205

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
210 215 220

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys
225 230 235 240

Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
245 250 255

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
260 265 270

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
275 280 285

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
290 295 300

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
305 310 315 320

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
325 330 335

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
340 345 350

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln

150313_0893_86150_PCT_Sequence_Listing_REB

355

360

365

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
370 375 380

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
385 390 395 400

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
405 410 415

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
420 425 430

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
435 440 445

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
450 455 460

Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470

<210> 202
<211> 31
<212> PRT
<213> Homo sapiens

<400> 202

His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
20 25 30

<210> 203
<211> 22
<212> DNA
<213> Homo sapiens

<400> 203

agaggtagta ggttgcatag tt

22