

eof-seq1.txt
SEQUENCE LISTING

<110> Boehringer Ingelheim International GmbH
<120> Anti-IGF antibodies
<130> 12-0271-PCT
<160> 26
<170> PatentIn version 3.3

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Gly

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| Gln Val Glu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly | |
| 1 5 10 15 | |
| agc ctg cgt ctg agc tgc gcg gcc tcc gga ttt acc ttt tct aat tat | 96 |
| Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr | |
| 20 25 30 | |
| tgg atg cat tgg gtg cgc caa gcc cct ggg aag ggt ctc gag tgg gtg | 144 |
| Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val | |
| 35 40 45 | |
| agc ggt atc tct ggt tgg tct agc tgg acc tat tat gcg gat agc gtg | 192 |
| Ser Gly Ile Ser Gly Trp Ser Ser Trp Thr Tyr Tyr Ala Asp Ser Val | |
| 50 55 60 | |
| aaa ggc cgt ttt acc att tca cgt gat aat tcg aaa aac acc ctg tat | 240 |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr | |
| 65 70 75 80 | |
| ctg caa atg aac agc ctg cgt gcg gaa gat acg gcc gtg tat tat tgc | 288 |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys | |
| 85 90 95 | |
| gcg cgt ttt ggt att gat gct tat act aag gtt tat ttt gat tat tgg | 336 |
| Ala Arg Phe Gly Ile Asp Ala Tyr Thr Lys Val Tyr Phe Asp Tyr Trp | |
| 100 105 110 | |
| ggc caa ggc acc ctg gtg acg gtt agc tca | 366 |
| Gly Gln Gly Thr Leu Val Thr Val Ser Ser | |
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 20 25 30

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

Ser Gly Ile Ser Gly Trp Ser Ser Trp Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Arg Phe Gly Ile Asp Ala Tyr Thr Lys Val Tyr Phe Asp Tyr Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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 1 5 10 15

acc gcg cgt atc tcg tgt agc ggc gat aat att cct ctt aag tat gtt 96
 Thr Ala Arg Ile Ser Cys Ser Gly Asp Asn Ile Pro Leu Lys Tyr Val
 20 25 30

tct tgg tac cag cag aaa ccc ggg cag gcg cca gtt ctt gtg att cat 144
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile His
 35 40 45

gat gat aat aag cgt ccc tca ggc atc ccg gaa cgc ttt agc gga tcc 192
 Asp Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

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aac agc ggc aac acc gcg acc ctg acc att agc ggc act cag gcg gaa 240
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

gac gaa gcg gat tat tat tgc cag tct tgg gct tct act ggt gtt gtg 288
Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Ala Ser Thr Gly Val Val
85 90 95

ttt ggc ggc ggc acg aag tta acc gtc cta ggt 321
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105

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20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile His
35 40 45

Asp Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
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Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Ala Ser Thr Gly Val Val
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Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
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Gln Val Glu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

agc ctg cgt ctg agc tgc gcg gcc tcc gga ttt acc tgg tct tct ttt 96
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Trp Ser Ser Phe
20 25 30

eo1f-seq1.txt

| | |
|---|-----|
| gct atg tct tgg gtg cgc caa gcc cct ggg aag ggt ctc gag tgg gtg | 144 |
| Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val | |
| 35 40 45 | |
| agc tat atc tct tat ctt ggt agc tat acc ggt tat gcg gat agc gtg | 192 |
| Ser Tyr Ile Ser Tyr Leu Gly Ser Tyr Thr Gly Tyr Ala Asp Ser Val | |
| 50 55 60 | |
| aaa ggc cgt ttt acc att tca cgt gat aat tcg aaa aac acc ctg tat | 240 |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr | |
| 65 70 75 80 | |
| ctg caa atg aac agc ctg cgt gcg gaa gat acg gcc gtg tat tat tgc | 288 |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys | |
| 85 90 95 | |
| gcg cgt ggt act aag ttt gat tat tgg ggc caa ggc acc ctg gtg acg | 336 |
| Ala Arg Gly Thr Lys Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr | |
| 100 105 110 | |
| gtt agc tca | 345 |
| Val Ser Ser | |
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| 20 25 30 | |
| Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val | |
| 35 40 45 | |
| Ser Tyr Ile Ser Tyr Leu Gly Ser Tyr Thr Gly Tyr Ala Asp Ser Val | |
| 50 55 60 | |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Arg Gly Thr Lys Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr | |
| 100 105 110 | |
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1                               5                               10          15

cgt gtg acc atc tcg tgt acg ggc agc agc agc aac att ggt act tat      96
Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Thr Tyr
                               20                               25          30

gat gtg cat tgg tac cag cag ttg ccc ggg acg gcg ccg aaa ctt ctg      144
Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
                               35                               40          45

att tat tct aat tct aag cgt ccc tca ggc gtg ccg gat cgt ttt agc      192
Ile Tyr Ser Asn Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
                               50                               55          60

gga tcc aaa agc ggc acc agc gcg agc ctt gcg att acg ggc ctg caa      240
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln
65                               70                               75          80

agc gaa gac gaa gcg gat tac tat tgc tct att act cgt gtg ttt ggc      288
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ile Thr Arg Val Phe Gly
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Gly Gly Thr Lys Leu Thr Val Leu Gly
                               100                              105

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                               20                               25          30

Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
                               35                               40          45

Ile Tyr Ser Asn Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
                               50                               55          60

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

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eof-seq1.txt

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agc acc tct ggg ggc aca gcg gcc ctg ggc tgc ctg gtc aag gac tac 96
Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30
ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca ggc gcc ctg acc agc 144
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45
ggc gtg cac acc ttc ccg gct gtc cta cag tcc tca gga ctc tac tcc 192
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60
ctc agc agc gtg gtg acc gtg ccc tcc agc agc ttg ggc acc cag acc 240
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80
tac atc tgc aac gtg aat cac aag ccc agc aac acc aag gtg gac aag 288
Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95
aaa gtt gag ccc aaa tct tgt gac aaa act cac aca tgc cca ccg tgc 336
Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110
cca gca cct gaa ctc ctg ggg gga ccg tca gtc ttc ctc ttc ccc cca 384
Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125
aaa ccc aag gac acc ctc atg atc tcc cgg acc cct gag gtc aca tgc 432
Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140
gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc aag ttc aac tgg 480
Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160
tac gtg gac ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg gag 528
Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175
gag cag tac aac agc acg tac cgg gtg gtc agc gtc ctc acc gtc ctg 576
Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190
cac cag gac tgg ctg aat ggc aag gag tac aag tgc aag gtc tcc aac 624
His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
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eo1f-seq1.txt

| | |
|---|-----|
| aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc aaa gcc aaa ggg | 672 |
| Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly | |
| 210 215 220 | |
| cag ccc cga gaa cca cag gtg tac acc ctg ccc cca tcc cgg gat gag | 720 |
| Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu | |
| 225 230 235 240 | |
| ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tat | 768 |
| Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr | |
| 245 250 255 | |
| ccc agc gac atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac | 816 |
| Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn | |
| 260 265 270 | |
| aac tac aag acc acg cct ccc gtg ctg gac tcc gac ggc tcc ttc ttc | 864 |
| Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe | |
| 275 280 285 | |
| ctc tac agc aag ctc acc gtg gac aag agc agg tgg cag cag ggg aac | 912 |
| Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn | |
| 290 295 300 | |
| gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac aac cac tac acg | 960 |
| Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr | |
| 305 310 315 320 | |
| cag aag agc ctc tcc ctg tct ccg ggt aaa tga | 993 |
| Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys | |
| 325 330 | |

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| Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr | |
| 20 25 30 | |
| Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser | |
| 35 40 45 | |
| Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser | |
| 50 55 60 | |
| Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr | |
| 65 70 75 80 | |
| Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys | |
| 85 90 95 | |
| Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys | |
| 100 105 110 | |

eo1f-seq1.txt

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

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eolf-seql.txt

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| cag Gln 1 | ccc Pro | aag Lys | gct Ala | gcc Ala 5 | ccc Pro | tcg Ser | gtc Val | act Thr | ctg Leu 10 | ttc Phe | ccg Pro | ccc Pro | tcc Ser | tct Ser 15 | gag Glu | 48 |
| gag Glu | ctt Leu | caa Gln | gcc Ala 20 | aac Asn | aag Lys | gcc Ala | aca Thr | ctg Leu 25 | gtg Val | tgt Cys | ctc Leu | ata Ile | agt Ser 30 | gac Asp | ttc Phe | 96 |
| tac Tyr | ccg Pro | gga Gly 35 | gcc Ala | gtg Val | aca Thr | gtg Val | gcc Ala 40 | tgg Trp | aag Lys | gga Gly | gat Asp | agc Ser 45 | agc Ser | ccc Pro | gtc Val | 144 |
| aag Lys | gcg Ala 50 | gga Gly | gtg Val | gag Glu | acc Thr | acc Thr 55 | aca Thr | ccc Pro | tcc Ser | aaa Lys | caa Gln 60 | agc Ser | aac Asn | aac Asn | aag Lys | 192 |
| tac Tyr 65 | gcg Ala | gcc Ala | agc Ser | agc Ser | tat Tyr 70 | ctg Leu | agc Ser | ctg Leu | acg Thr 75 | cct Pro | gag Glu | cag Gln | tgg Trp | aag Lys | tcc Ser 80 | 240 |
| cac His | aga Arg | agc Ser | tac Tyr | agc Ser 85 | tgc Cys | cag Gln | gtc Val | acg Thr | cat His 90 | gaa Glu | ggg Gly | agc Ser | acc Thr | gtg Val 95 | gag Glu | 288 |
| aag Lys | aca Thr | gtg Val | gcc Ala 100 | cct Pro | aca Thr | gaa Glu | tgt Cys | tca Ser 105 | tag | | | | | | | 318 |

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| Gln 1 | Pro | Lys | Ala | Ala 5 | Pro | Ser | Val | Thr | Leu 10 | Phe | Pro | Pro | Ser | Ser 15 | Glu |
| Glu | Leu | Gln | Ala 20 | Asn | Lys | Ala | Thr | Leu 25 | Val | Cys | Leu | Ile | Ser 30 | Asp | Phe |
| Tyr | Pro | Gly 35 | Ala | Val | Thr | Val | Ala 40 | Trp | Lys | Gly | Asp | Ser 45 | Ser | Pro | Val |
| Lys | Ala 50 | Gly | Val | Glu | Thr | Thr 55 | Thr | Pro | Ser | Lys | Gln 60 | Ser | Asn | Asn | Lys |
| Tyr 65 | Ala | Ala | Ser | Ser | Tyr 70 | Leu | Ser | Leu | Thr 75 | Pro | Glu | Gln | Trp | Lys | Ser 80 |
| His | Arg | Ser | Tyr | Ser 85 | Cys | Gln | Val | Thr | His 90 | Glu | Gly | Ser | Thr | Val 95 | Glu |
| Lys | Thr | Val | Ala 100 | Pro | Thr | Glu | Cys | Ser 105 | | | | | | | |

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eo1f-seq1.txt

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20 25 30

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

Ser Gly Ile Ser Gly Trp Ser Ser Trp Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Arg Phe Gly Ile Asp Ala Tyr Thr Lys Val Tyr Phe 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

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
225 230 235 240

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

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
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265

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His Glu Asp₂₇₅ Pro Glu Val Lys Phe₂₈₀ Asn Trp Tyr Val Asp₂₈₅ Gly Val Glu

Val His₂₉₀ Asn Ala Lys Thr Lys₂₉₅ Pro Arg Glu Glu Gln₃₀₀ Tyr Asn Ser Thr

Tyr₃₀₅ Arg Val Val Ser Val₃₁₀ Leu Thr Val Leu His₃₁₅ Gln Asp Trp Leu Asn₃₂₀

Gly Lys Glu Tyr Lys₃₂₅ Cys Lys Val Ser Asn₃₃₀ Lys Ala Leu Pro Ala₃₃₅ Pro

Ile Glu Lys Thr₃₄₀ Ile Ser Lys Ala Lys₃₄₅ Gly Gln Pro Arg Glu₃₅₀ Pro Gln

Val Tyr Thr₃₅₅ Leu Pro Pro Ser Arg₃₆₀ Asp Glu Leu Thr Lys₃₆₅ Asn Gln Val

Ser Leu₃₇₀ Thr Cys Leu Val Lys₃₇₅ Gly Phe Tyr Pro Ser₃₈₀ Asp Ile Ala Val

Glu Trp Glu Ser Asn Gly₃₉₀ Gln Pro Glu Asn Asn₃₉₅ Tyr Lys Thr Thr Pro₄₀₀

Pro Val Leu Asp Ser₄₀₅ Asp Gly Ser Phe Phe₄₁₀ Leu Tyr Ser Lys Leu₄₁₅ Thr

Val Asp Lys Ser₄₂₀ Arg Trp Gln Gln Gly₄₂₅ Asn Val Phe Ser Cys₄₃₀ Ser Val

Met His Glu₄₃₅ Ala Leu His Asn His₄₄₀ Tyr Thr Gln Lys Ser₄₄₅ Leu Ser Leu

Ser Pro Gly Lys₄₅₀

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Asp Ile Glu Leu Thr₅ Gln Pro Pro Ser Val₁₀ Ser Val Ala Pro Gly₁₅ Gln

Thr Ala Arg Ile₂₀ Ser Cys Ser Gly Asp₂₅ Asn Ile Pro Leu Lys₃₀ Tyr Val

Ser Trp Tyr₃₅ Gln Gln Lys Pro Gly₄₀ Gln Ala Pro Val Leu₄₅ Val Ile His

eo1f-seq1.txt

Asp Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Ala Ser Thr Gly Val Val
 85 90 95
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala Ala
 100 105 110
 Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln Ala Asn
 115 120 125
 Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly Ala Val
 130 135 140
 Thr Val Ala Trp Lys Gly Asp Ser Ser Pro Val Lys Ala Gly Val Glu
 145 150 155 160
 Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala Ser Ser
 165 170 175
 Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser Tyr Ser
 180 185 190
 Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr Val Ala Pro
 195 200 205
 Thr Glu Cys Ser
 210