

PhoenixTemp1906.tmp.txt  
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<120> Improving the secretory capacity in host cells  
<130> P01-2305  
<160> 18  
<170> PatentIn version 3.3  
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 Thr His Leu Ser Pro Glu Glu Lys Ala Leu Arg Arg Lys Leu Lys Asn  
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 195 200 205  
 Lys Cys Pro Ser Pro Glu Pro Ala Ser Leu Glu Glu Leu Pro Glu Val  
 210 215 220  
 Tyr Pro Glu Gly Pro Ser Ser Leu Pro Ala Ser Leu Ser Leu Ser Val  
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 Gly Thr Ser Ser Ala Lys Leu Glu Ala Ile Asn Glu Leu Ile Arg Phe  
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 Asp His Ile Tyr Thr Lys Pro Leu Val Leu Glu Ile Pro Ser Glu Thr  
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 Pro Ser Glu Asn Asp His Pro Glu Phe Ile Val Ser Val Lys Glu Glu  
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Pro Val Glu Asp Asp Leu Val Pro Glu Leu Gly Ile Ser Asn Leu Leu  
305 310 315 320

Ser Ser Ser His Cys Pro Lys Pro Ser Ser Cys Leu Leu Asp Ala Tyr  
325 330 335

Ser Asp Cys Gly Tyr Gly Gly Ser Leu Ser Pro Phe Ser Asp Met Ser  
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PhoenixTemp1906.tmp.txt

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Tyr Leu Glu Asn Ser Ala Thr Gln Ser Thr Asn Ser Gly Ile Gln Asn  
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Gln Val Val Asp Ile Ser Asp Thr Ile Tyr Pro Arg Asn Pro Ala Met  
145 150 155 160

Tyr Ser Glu Glu Ala Arg Leu Lys Ser Phe Gln Asn Trp Pro Asp Tyr  
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Ala His Leu Thr Pro Arg Glu Leu Ala Ser Ala Gly Leu Tyr Tyr Thr  
180 185 190

Gly Ile Gly Asp Gln Val Gln Cys Phe Cys Cys Gly Gly Lys Leu Lys  
195 200 205

Asn Trp Glu Pro Cys Asp Arg Ala Trp Ser Glu His Arg Arg His Phe  
 210 215 220

Pro Asn Cys Phe Phe Val Leu Gly Arg Asn Leu Asn Ile Arg Ser Glu  
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Ser Asp Ala Val Ser Ser Asp Arg Asn Phe Pro Asn Ser Thr Asn Leu  
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Pro Arg Asn Pro Ser Met Ala Asp Tyr Glu Ala Arg Ile Phe Thr Phe  
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Phe Tyr Ala Leu Gly Glu Gly Asp Lys Val Lys Cys Phe His Cys Gly  
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Gly Gly Leu Thr Asp Trp Lys Pro Ser Glu Asp Pro Trp Glu Gln His  
 305 310 315 320

Ala Lys Trp Tyr Pro Gly Cys Lys Tyr Leu Leu Glu Gln Lys Gly Gln  
 325 330 335

Glu Tyr Ile Asn Asn Ile His Leu Thr His Ser Leu Glu Glu Cys Leu  
 340 345 350

Val Arg Thr Thr Glu Lys Thr Pro Ser Leu Thr Arg Arg Ile Asp Asp  
 355 360 365

Thr Ile Phe Gln Asn Pro Met Val Gln Glu Ala Ile Arg Met Gly Phe  
 370 375 380

Ser Phe Lys Asp Ile Lys Lys Ile Met Glu Glu Lys Ile Gln Ile Ser  
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Gly Ser Asn Tyr Lys Ser Leu Glu Val Leu Val Ala Asp Leu Val Asn  
 405 410 415

Ala Gln Lys Asp Ser Met Gln Asp Glu Ser Ser Gln Thr Ser Leu Gln  
 420 425 430

Lys Glu Ile Ser Thr Glu Glu Gln Leu Arg Arg Leu Gln Glu Glu Lys  
 435 440 445

Leu Cys Lys Ile Cys Met Asp Arg Asn Ile Ala Ile Val Phe Val Pro  
 450 455 460

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Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu Ser Glu Arg Glu Thr Pro  
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Ser Ala Ile Asn Gly Asn Pro Ser Trp His Leu Ala Asp Ser Pro Ala  
50 55 60  
Val Asn Gly Ala Thr Gly His Ser Ser Ser Leu Asp Ala Arg Glu Val  
65 70 75 80  
Ile Pro Met Ala Ala Val Lys Gln Ala Leu Arg Glu Ala Gly Asp Glu  
85 90 95

Phe Glu Leu Arg Tyr Arg Arg Ala Phe Ser Asp Leu Thr Ser Gln Leu  
 100 105 110

His Ile Thr Pro Gly Thr Ala Tyr Gln Ser Phe Glu Gln Val Val Asn  
 115 120 125

Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe  
 130 135 140

Ser Phe Gly Gly Ala Leu Cys Val Glu Ser Val Asp Lys Glu Met Gln  
 145 150 155 160

Val Leu Val Ser Arg Ile Ala Ser Trp Met Ala Thr Tyr Leu Asn Asp  
 165 170 175

His Leu Glu Pro Trp Ile Gln Asp Asn Gly Gly Trp Asp Thr Phe Val  
 180 185 190

Glu Leu Tyr Gly Asn Asn Ala Ala Ala Glu Ser Arg Lys Gly Gln Glu  
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Ala Ala Ala Val Lys Gln Ala Leu Arg Glu Ala Gly Asp Glu Phe Glu  
50 55 60

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

Thr Pro Gly Thr Ala Tyr Gln Ser Phe Glu Gln Val Val Asn Glu Leu  
85 90 95

Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe Ser Phe  
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Gly Gly Ala Leu Cys Val Glu Ser Val Asp Lys Glu Met Gln Val Leu  
115 120 125

Val Ser Arg Ile Ala Ser Trp Met Ala Thr Tyr Leu Asn Asp His Leu  
130 135 140

Glu Pro Trp Ile Gln Asp Asn Gly Gly Trp Asp Thr Phe Val Glu Leu  
145 150 155 160

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

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 35 40 45

Gly Arg Ile Val Ala Leu Phe Ser Phe Gly Gly Ala Leu Ala Lys Lys  
 50 55 60

Leu Val Asn Ala Glu Met Glu Gly Leu Val Ser Arg Leu Ala Asp Trp  
 65 70 75 80

Met Val Glu Phe Leu Lys His Asn Leu Ala Glu Trp Ile Gln Gln Asn  
 85 90 95

Gly Gly Trp

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