

LISTAGEM DE SEQUÊNCIAS

<110> FUNDAÇÃO OSWALDO CRUZ

<120> POLIPEPTÍDEO COM ATIVIDADE ASPARAGINASE, CASSETE DE EXPRESSÃO, VETOR DE EXPRESSÃO, CÉLULA HOSPEDEIRA, COMPOSIÇÃO FARMACÊUTICA, MÉTODOS PARA PRODUZIR UM POLIPEPTÍDEO COM ATIVIDADE ASPARAGINASE E PARA PREVENIR OU TRATAR CÂNCER, E, USO DE UM POLIPEPTÍDEO

<130> Caso 159

<160> 11

<170> PatentIn versão 3.5

<210> 1

<211> 308

<212> PRT

<213> Homo sapiens

<400> 1

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Lys Asp Arg Lys Glu Arg Val His Gln Gly Met Val Arg Ala Ala Thr
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Val Gly Tyr Gly Ile Leu Arg Glu Gly Gly Ser Ala Val Asp Ala Val
35 40 45

Glu Gly Ala Val Val Ala Leu Glu Asp Asp Pro Glu Phe Asn Ala Gly
50 55 60

Cys Gly Ser Val Leu Asn Thr Asn Gly Glu Val Glu Met Asp Ala Ser
65 70 75 80

Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val Ser Ala Val Gln
85 90 95

Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val Met Glu Lys Thr
100 105 110

Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln Phe Ala Ala Ala
115 120 125

Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val Thr Glu Arg Asn
130 135 140

Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly Ala Gln Lys Thr
145 150 155 160

Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val Ala Leu Asp Cys
165 170 175

Lys Gly Asn Val Thr Tyr Ala Thr Ser Thr Gly Gly Ile Val Asn Lys
180 185 190

Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Gly Ala Gly Gly Tyr
195 200 205

Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly Glu Ser
210 215 220

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

Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr Met Lys

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250

255

Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys Thr Gly
260 270

Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala Ala Ala
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Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Asp Thr Thr Ile
290 295 300

Thr Asp Leu Pro
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<210> 2
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<212> DNA
<213> Homo sapiens

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<210> 3
<211> 308
<212> PRT

<213> Sequencia Artificial

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<223> Substituiçao de G por E na posiçao 10 da sequencia selvagem

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20 25 30

Val Gly Tyr Gly Ile Leu Arg Glu Gly Gly Ser Ala Val Asp Ala Val
35 40 45

Glu Gly Ala Val Val Ala Leu Glu Asp Asp Pro Glu Phe Asn Ala Gly
50 55 60

Cys Gly Ser Val Leu Asn Thr Asn Gly Glu Val Glu Met Asp Ala Ser
65 70 75 80

Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val Ser Ala Val Gln
85 90 95

Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val Met Glu Lys Thr
100 105 110

Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln Phe Ala Ala Ala
115 120 125

Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val Thr Glu Arg Asn
130 135 140

Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly Ala Gln Lys Thr
145 150 155 160

Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val Ala Leu Asp Cys
165 170 175

Lys Gly Asn Val Thr Tyr Ala Thr Ser Thr Gly Gly Ile Val Asn Lys
180 185 190

Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Gly Ala Gly Gly Tyr
195 200 205

Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly Glu Ser
210 215 220

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

Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr Met Lys
245 250 255

Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys Thr Gly
260 265 270

Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala Ala Ala
275 280 285

Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Asp Thr Thr Ile
290 295 300

Thr Asp Leu Pro
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<210> 4

<211> 308

<212> PRT

<213> Sequencia Artificial

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<223> Substituiçao de G por D na posiçao 10 da sequencia selvagem

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35 40 45Glu Gly Ala Val Val Ala Leu Glu Asp Asp Pro Glu Phe Asn Ala Gly
50 55 60Cys Gly Ser Val Leu Asn Thr Asn Gly Glu Val Glu Met Asp Ala Ser
65 70 75 80Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val Ser Ala Val Gln
85 90 95Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val Met Glu Lys Thr
100 105 110Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln Phe Ala Ala Ala
115 120 125Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val Thr Glu Arg Asn
130 135 140Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly Ala Gln Lys Thr
145 150 155 160Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val Ala Leu Asp Cys
165 170 175Lys Gly Asn Val Thr Tyr Ala Thr Ser Thr Gly Gly Ile Val Asn Lys
180 185 190Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Gly Ala Gly Gly Tyr
195 200 205Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly Glu Ser
210 215 220Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu Phe His Ile Glu Gln
225 230 235 240Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr Met Lys
245 250 255Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys Thr Gly
260 265 270Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala Ala Ala
275 280 285Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Asp Thr Thr Ile
290 295 300Thr Asp Leu Pro
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<210> 5

<211> 308

<212> PRT

<213> Sequencia Artificial

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<223> Substituiçao de G por H na posiçao 10 da sequencia selvagem

<400> 5

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Lys Asp Arg Lys Glu Arg Val His Gln Gly Met Val Arg Ala Ala Thr
20 25 30

Val Gly Tyr Gly Ile Leu Arg Glu Gly Gly Ser Ala Val Asp Ala Val
35 40 45

Glu Gly Ala Val Val Ala Leu Glu Asp Asp Pro Glu Phe Asn Ala Gly
50 55 60

Cys Gly Ser Val Leu Asn Thr Asn Gly Glu Val Glu Met Asp Ala Ser
65 70 75 80

Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val Ser Ala Val Gln
85 90 95

Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val Met Glu Lys Thr
100 105 110

Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln Phe Ala Ala Ala
115 120 125

Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val Thr Glu Arg Asn
130 135 140

Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly Ala Gln Lys Thr
145 150 155 160

Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val Ala Leu Asp Cys
165 170 175

Lys Gly Asn Val Thr Tyr Ala Thr Ser Thr Gly Gly Ile Val Asn Lys
180 185 190

Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Gly Ala Gly Gly Tyr
195 200 205

Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly Glu Ser
210 215 220

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

Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr Met Lys
245 250 255

Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys Thr Gly
260 265 270

Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala Ala Ala
275 280 285

Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Asp Thr Thr Ile
290 295 300

Thr Asp Leu Pro
305

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 <213> Sequência Artificial
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 <223> Substituição de g por a na posição 29 da sequência selvagem

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 gccgccaccg tgggctacgg catcctccgg gagggcggga gcgccgtgga tgccgtagag 240
 ggagctgtcg tcgccctgga agacgatccc gagttcaacg caggttgtgg gtctgtcttg 300
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 ggagcagtgt ccgcagtcca gtgtatagca aatcccatta aacttgctcg gcttgtcatg 420
 gaaaagacac ctattgctt tctgactgac caaggcgag cgagtttgc agcagctatg 480
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 aaaaaaaaaa aa 1332

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<211> 1332

<212> DNA

<213> Sequencia Artificial

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<223> n t ou c

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 <213> Sequencia Artificial

<220>
 <223> Iniciador

<400> 9
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<210> 10
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 <212> DNA
 <213> Sequencia Artificial

<220>
 <223> iniciador

<400> 10
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<210> 11
 <211> 27
 <212> DNA
 <213> Sequencia Artificial

<220>
 <223> iniciador

<400> 11
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