

LISTAGEM DE SEQUÊNCIAS

<110> FIOCRUZ FUNDAÇÃO OSWALDO CRUZ
 INSTITUTO DE BIOLOGIA MOLECULAR DO PARANÁ - IBMP
 UNIVERSIDADE FEDERAL DO PARANÁ - UFPR

<120> PROTEÍNA RECOMBINANTE, SEQUÊNCIA DE DNA SINTÉTICO, VETOR DE EXPRESSÃO, CÉLULA HOSPEDEIRA, COMPOSIÇÃO, KIT PARA DIAGNÓSTICO DE RUBÍOLA, USO DE PELO MENOS UMA PROTEÍNA RECOMBINANTE, E, MÉTODOS PARA PRODUZIR UMA PROTEÍNA RECOMBINANTE E PARA DIAGNÓSTICO DE RUBÍOLA"

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<170> PatentIn versão 3.5

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 <223> Proteína Rub2

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Leu Gln Gly Gly Trp Gly Cys Tyr Asn Leu Ser Asp Trp His Gln Gly
 35 40 45

Thr His Val Cys His Thr Lys His Met Asp Phe Trp Cys Val Glu His
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Asp Arg Pro Pro Pro Ala Thr Pro Thr Pro Leu
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gctggggctg ttataacctg tccgattggc accagggcac ccacgtctgt cacaccaaac 180

acatggactt ctggtgctg gaacacgacc gtccaccacc ggctactcca actccgctgg 240

cgaattcctg ataaaagctt 260

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Gln Ser Arg Arg Pro Arg Pro Pro Arg Gln Arg Asp Ser Ser Thr Ser
35 40 45

Gly Asp Asp Ser Gly Arg Asp Ser Gly Gly Pro Arg Arg Arg Arg Gly
50 55 60

Asn Arg Gly Arg Gly Gln Arg Arg Asp Trp Ser Arg Ala Pro Pro Pro
65 70 75 80

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

Ser Arg Ala Pro Pro Gln Gln Pro Gln Pro Pro Arg Met Gln Thr Gly
100 105 110

Arg Gly Gly Ser Ala Pro Arg Pro Glu Leu Gly
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 35 40 45

Asn Tyr Thr Gly Asn Gln Gln Ser Arg Trp Gly Leu Gly Ser Pro Asn
 50 55 60

Cys His Gly Pro Asp Trp Ala Ser Pro Val Cys Gln Arg His Ser Pro
 65 70 75 80

Asp Cys Ser Arg Leu Val Gly Ala Thr Pro Glu Arg Pro Arg Leu Arg
 85 90 95

Leu Val Asp Ala Asp Asp Pro Leu Leu Arg Thr Ala Pro Gly Pro Gly
 100 105 110

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

Leu His Ile Arg Ala Gly Pro Tyr Gly His Ala Thr Val Glu Met Pro
 130 135 140

Glu Trp Ile His Ala His Thr Thr Ser Asp Pro Trp His Pro Pro Gly
 145 150 155 160

Pro Leu Gly Leu Lys Phe Lys Thr Val Arg Pro Val Gly Gly Gly Asn
 165 170 175

Cys His Leu Thr Val Asn Gly Glu Asp Leu Gly Ala Phe Pro Pro Gly
 180 185 190

Lys Phe Val Thr Ala Ala Leu Leu Asn Thr Pro Pro Pro Tyr Gln Val
 195 200 205

Ser Cys Gly Gly Glu Ser Asp Arg Ala Ser Ala Arg Val Ile Asp Pro
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Gly Ser Gln Val Pro Pro Asp Pro Gly Asp Leu Val Glu Tyr Ile Met
 35 40 45

Asn Tyr Thr Gly Asn Gln Gln Ser Arg Trp Gly Leu Gly Ser Pro Asn
 50 55 60

Cys His Gly Pro Asp Trp Ala Ser Pro Val Cys Gln Arg His Ser Pro
 65 70 75 80

Asp Cys Ser Arg Leu Val Gly Ala Thr Pro Glu Arg Pro Arg Leu Arg
85 90 95

Leu Val Asp Ala Asp Asp Pro Leu Leu Arg Thr Ala Pro Gly Pro Gly
100 105 110

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

Leu His Ile Arg Ala Gly Pro Tyr Gly His Ala Thr Val Glu Met Pro
130 135 140

Glu Trp Ile His Ala His Thr Thr Ser Asp Pro Trp His Pro Pro Gly
145 150 155 160

Pro Leu Gly Leu Lys Phe Lys Thr Val Arg Pro Val Gly Gly Gly Asn
165 170 175

Cys His Leu Thr Val Asn Gly Glu Asp Leu Gly Ala Phe Pro Pro Gly
180 185 190

Lys Phe Val Thr Ala Ala Leu Leu Asn Thr Pro Pro Pro Tyr Gln Val
195 200 205

Ser Cys Gly Gly Glu Ser Asp Arg Ala Ser Ala Arg Val Ile Asp Pro
210 215 220

Ala Ala Gln Ser Phe Thr Gly Val Val Tyr Gly Thr His Thr Thr Ala
225 230 235 240

Val Ser Glu Thr Arg Gly Gly Ser Gly Leu Gln Pro Arg Ala Asp Met
245 250 255

Ala Ala Pro Pro Thr Leu Pro Gln Pro Pro Arg Ala His Gly Gln His
260 265 270

Tyr Gly His His His His Gln Leu Pro Phe Leu Gly His Asp Gly His
275 280 285

His Gly Gly Thr Leu Arg Val Gly Gln His His Arg Asn Ala Ser Asp
290 295 300

Val Leu Pro Gly His Trp Leu Gln Gly Gly Trp Gly Cys Tyr Asn Leu
305 310 315 320

Ser Asp Trp His Gln Gly Thr His His Ala Gly Leu Asn Asp Ser Cys
325 330 335

Gly Gly Phe Leu Ser Gly Cys Gly Pro Met Arg Leu Arg His Gly Ala
340 345 350

Asp Thr Arg Cys Gly Arg Leu Ile Cys Gly Leu Ser Thr Thr Ala Gln
 355 360 365

Tyr Pro Pro Thr Arg Phe Gly Cys Ala Met Arg Trp Gly Leu Pro Pro
 370 375 380

Trp Glu Leu Val Val Leu Thr Ala Arg His Ala Leu Ala Ala Phe Val
 385 390 395 400

Leu Leu Val Pro Trp Val Leu Ile Phe Met Val Cys Arg Arg Thr Cys
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Gly Ser Gln Val Pro Pro Asp Pro Gly Asp Leu Val Glu Tyr Ile Met
35 40 45

Asn Tyr Thr Gly Asn Gln Gln Ser Arg Trp Gly Leu Gly Ser Pro Asn
50 55 60

Cys His Gly Pro Asp Trp Ala Ser Pro Val Cys Gln Arg His Ser Pro
65 70 75 80

Asp Cys Ser Arg Leu Val Gly Ala Thr Pro Glu Arg Pro Arg Leu Arg
85 90 95

Leu Val Asp Ala Asp Asp Pro Leu Leu Arg Thr Ala Pro Gly Pro Gly
100 105 110

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

Leu His Ile Arg Ala Gly Pro Tyr Gly His Ala Thr Val Glu Met Pro
130 135 140

Glu Trp Ile His Ala His Thr Thr Ser Asp Pro Trp His Pro Pro Gly
145 150 155 160

Pro Leu Gly Leu Lys Phe Lys Thr Val Arg Pro Val Gly Gly Gly Asn
165 170 175

Cys His Leu Thr Val Asn Gly Glu Asp Leu Gly Ala Phe Pro Pro Gly
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Lys Phe Val Thr Ala Ala Leu Leu Asn Thr Pro Pro Pro Tyr Gln Val
195 200 205

Ser Cys Gly Gly Glu Ser Asp Arg Ala Ser Ala Arg Val Ile Asp Pro

210

215

220

Ala Ala Gln Ser Phe Thr Gly Val Val Tyr Gly Thr His Thr Thr Ala
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Val Ser Glu Thr Arg Gly Gly Ser Gly Leu Gln Pro Arg Ala Asp Met
 245 250 255

Ala Ala Pro Pro Thr Leu Pro Gln Pro Pro Arg Ala His Gly Gln His
 260 265 270

Tyr Gly His His His His Gln Leu Pro Phe Leu Gly His Asp Gly His
 275 280 285

His Gly Gly Thr Leu Arg Val Gly Gln His His Arg Asn Ala Ser Asp
 290 295 300

Val Leu Pro Gly His Trp Leu Gln Gly Gly Trp Gly Cys Tyr Asn Leu
 305 310 315 320

Ser Asp Trp His Gln Gly Thr His His Ala Gly Leu Asn Asp Ser Cys
 325 330 335

Gly Gly Phe Leu Ser Gly Cys Gly Pro Met Arg Leu Arg His Gly Ala
 340 345 350

Asp Thr Arg Cys Gly Arg Leu Ile Cys Gly Leu Ser Thr Thr Ala Gln
 355 360 365

Tyr Pro Pro Thr Arg Phe Gly Cys Ala Met Arg Trp Gly Leu Pro Pro
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Trp Glu Leu Val Val Leu Thr Ala Arg His Ala Leu Ala Ala Phe Val
 385 390 395 400

Leu Leu Val Pro Trp Val Leu Ile Phe Met Val Cys Arg Arg Thr Cys
 405 410 415

Arg Arg Arg Gly Ala Ala Ala Ala Leu Thr Ala Gly Ser Ala Ser Thr
 420 425 430

Thr Pro Ile Thr Met Glu Asp Leu Gln Lys Ala Leu Glu Ala Gln Ser
 435 440 445

Arg Ala Leu Arg Ala Glu Leu Ala Ala Gly Ala Ser Gln Ser Arg Arg
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Pro Arg Pro Pro Arg Gln Arg Asp Ser Ser Thr Ser Gly Asp Asp Ser
 465 470 475 480

Gly Arg Asp Ser Gly Gly Pro Arg Arg Arg Arg Gly Asn Arg Gly Arg
 485 490 495

Gly Gln Arg Arg Asp Trp Ser Arg Ala Pro Pro Pro Pro Glu Glu Arg
500 505 510

Gln Glu Thr Arg Ser Gln Thr Pro Ala Pro Lys Pro Ser Arg Ala Pro
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