

1
LISTADO DE SECUENCIAS

<110> Consejo Superior de Investigaciones Científicas (CSIC)
Fundación para la Formación e Investigación Sanitarias de la Región de Murcia.

<120> Método de obtención de datos útiles para el diagnóstico diferencial de la enfermedad de Chagas, y para evaluar la respuesta al tratamiento.

<130> ES1641.406

<160> 4

<170> PatentIn version 3.4

<210> 1

<211> 92

<212> PRT

<213> Trypanosoma cruzi

<400> 1

Met Ala Thr Thr Leu Glu Glu Phe Ser Ala Lys Leu Asp Arg Leu Asp
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Ala Glu Phe Ala Lys Lys Met Glu Glu Gln Asn Lys Lys Phe Phe Ala
20 25 30

Asp Lys Pro Asp Glu Ser Thr Leu Ser Pro Glu Met Lys Glu His Tyr
35 40 45

Glu Lys Phe Glu Lys Met Ile Gln Glu His Thr Asp Lys Phe Asn Lys
50 55 60

Lys Met His Glu His Ser Glu His Phe Lys Ala Lys Phe Ala Glu Leu
65 70 75 80

Leu Glu Gln Gln Lys Asn Ala Gln Phe Pro Gly Lys
85 90

<210> 2

<211> 680

<212> PRT

<213> Trypanosoma cruzi

<400> 2

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Cys Val Gly Val Trp Gln Asn Glu Arg Val Glu Ile Ile Ala Asn Asp
20 25 30

Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala Phe Thr Asp Ser Glu
35 40 45

Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala Met Asn Pro Arg
50 55 60

Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly Arg Lys Phe Ser Asp
 65 70 75 80
 Pro Val Val Gln Ser Asp Met Lys His Trp Pro Phe Lys Val Ile Thr
 85 90
 Lys Gly Asp Asp Lys Pro Val Ile Gln Val Gln Phe Arg Gly Glu Thr
 100 105 110
 Lys Thr Phe Asn Pro Glu Glu Val Ser Ser Met Val Leu Ser Lys Met
 115 120 125
 Lys Glu Ile Ala Glu Ser Tyr Leu Gly Lys Gln Val Lys Lys Ala Val
 130 135 140
 Val Thr Val Pro Ala Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys
 145 150 155 160
 Asp Ala Gly Thr Ile Ala Gly Leu Glu Val Leu Arg Ile Ile Asn Glu
 165 170 175
 Pro Thr Ala Ala Ala Ile Ala Tyr Gly Leu Asp Lys Val Glu Asp Gly
 180 185 190
 Lys Glu Arg Asn Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp
 195 200 205
 Val Thr Leu Leu Thr Ile Asp Gly Gly Ile Phe Glu Val Lys Ala Thr
 210 215 220
 Asn Gly Asp Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val
 225 230 235 240
 Ala His Phe Thr Asp Glu Phe Lys Arg Lys Asn Lys Gly Lys Asp Leu
 245 250 255
 Ser Thr Asn Leu Arg Ala Leu Arg Arg Leu Arg Thr Ala Cys Glu Arg
 260 265 270
 Ala Lys Arg Thr Leu Ser Ser Ala Ala Gln Ala Thr Ile Glu Ile Asp
 275 280 285
 Ala Leu Phe Asp Asn Val Asp Phe Gln Ala Thr Ile Thr Arg Ala Arg
 290 295 300
 Phe Glu Glu Leu Cys Gly Glu Leu Phe Arg Gly Thr Leu Gln Pro Val
 305 310 315 320
 Glu Arg Val Leu Gln Asp Ala Lys Met Asp Lys Arg Ala Val His Asp
 325 330 335

Val Val Leu Val Gly Gly Ser Thr Arg³ Ile Pro Lys Val Met Gln Leu
 340 345 350

Val Ser Asp Phe Phe Arg Gly Lys Glu Leu Lys Lys Ser Ile Gln Pro
 355 360 365

Asp Glu Ala Val Ala Tyr Gly Ala Ala Val Gln Ala Phe Ile Leu Thr
 370 375 380

Gly Gly Lys Ser Lys Gln Thr Glu Gly Leu Leu Leu Leu Asp Val Thr
 385 390 395 400

Pro Leu Thr Leu Gly Ile Glu Thr Ala Gly Gly Val Met Thr Ser Leu
 405 410 415

Ile Lys Arg Asn Thr Thr Ile Pro Thr Lys Lys Ser Gln Ile Phe Ser
 420 425 430

Thr Tyr Ala Asp Asn Gln Pro Gly Val His Ile Gln Val Phe Glu Gly
 435 440 445

Glu Arg Ala Met Thr Lys Asp Cys His Leu Leu Gly Thr Phe Glu Leu
 450 455 460

Ser Gly Ile Pro Pro Pro Pro Arg Gly Val Pro Gln Ile Glu Val Thr
 465 470 475 480

Phe Asp Leu Asp Ala Asn Gly Ile Leu Asn Val Ser Ala Glu Glu Lys
 485 490 495

Gly Thr Gly Lys Arg Asn Gln Ile Val Leu Thr Asn Asp Lys Gly Arg
 500 505 510

Leu Ser Arg Ala Glu Ile Glu Arg Met Val Arg Glu Ala Ala Lys Tyr
 515 520 525

Glu Ala Glu Asp Lys Asp Gln Val Arg Gln Ile Asp Ala Lys Asn Gly
 530 535 540

Leu Glu Asn Tyr Ala Phe Ser Met Lys Asn Ala Val Asn Asp Pro Asn
 545 550 555 560

Val Ala Gly Lys Ile Glu Glu Ala Asp Lys Lys Thr Ile Thr Ser Ala
 565 570 575

Val Glu Glu Ala Leu Glu Trp Leu Asn Asn Asn Gln Glu Ala Ser Lys
 580 585 590

Glu Glu Tyr Glu His Arg Gln Lys Glu Leu Glu Asn Leu Cys Thr Pro
 595 600 605

Ile Met Thr Asn Met Tyr Gln Gly Met Ala Gly Ala Gly Met Pro Gly

610 615 620
 Gly Met Pro Gly Gly Met Pro Gly Gly Met Pro Gly Gly Met Pro Gly
 625 630 635 640
 Gly Met Pro Gly Gly Met Pro Gly Gly Met Pro Gly Gly Met Pro Gly
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 Gly Met Pro Gly Gly Met Pro Gly Gly Ala Asn Pro Ser Ser Ser
 660 665 670
 Gly Pro Glu Val Glu Glu Val Asp
 675 680
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 <213> Trypanosoma cruzi
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 Gln Pro Ala Val Pro Glu Val Thr Asp Val Thr Leu Glu Ala Ala Arg
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 Lys Gln Lys Ile His Asn Leu Lys Leu Lys Thr Ser Cys Leu Ser Asn
 35 40 45
 Glu Glu Phe Ile Gln Asp Leu His Val Ser Asp Trp Ser Glu Thr Gln
 50 55 60
 Lys Gln Lys Leu Leu Ala Ala His Glu Lys Ala Gln Glu Leu Leu Ser
 65 70 75 80
 Ser Val Glu Gly Gly Thr Lys Trp Asn Leu Thr Glu Ala Tyr Asp Ile
 85 90 95
 Lys Lys Leu Met Arg Val Cys Gly Leu Gln Leu Ser Val Arg Glu Leu
 100 105 110
 Tyr Lys Pro Glu Asp Lys Pro His Phe Met Glu Val Val Ala Leu Lys
 115 120 125
 Lys Thr Leu Asn Glu Leu Lys Gln His His Asn Lys Thr Arg Thr Val
 130 135 140
 Ser Phe Thr Gly Thr Ile Asp Asn Ala Ile Ala Lys Leu Glu Lys Ile
 145 150 155 160
 Glu Asp Glu Leu Arg Arg Ser Gln Leu Asp Ala Ser Glu Met Ala Gln
 165 170 175

Val Pro Val Ala Val Leu Lys Asn Leu Glu Glu Cys Met Asn Val Thr
 180 185 190
 Val Val Gln Thr Ala Leu Leu Gly Asn Glu Glu Gln Ile Lys Ala Gln
 195 200 205
 Leu Ala Ala Ile Glu Lys Ala Lys Glu Ile Arg Asn Val Ala Ile Ala
 210 215 220
 Asp Gly Glu Met Ala Ile Ala Glu Glu Gln Tyr Tyr Ile Lys Ala Gln
 225 230 235 240
 Leu Leu Glu His Leu Val Glu Leu Val Ala Asp Lys Phe Arg Ile Ile
 245 250 255
 Gly Gln Thr Glu Asp Glu Asn Lys Pro Phe Gly Arg Ile Gln Asp Val
 260 265 270
 Gln Lys Lys Ser Phe Gln Glu Thr Ser Ala Ile Lys Asp Ala Lys Arg
 275 280 285
 Arg Leu Lys Gln Arg Cys Glu Asp Asp Leu Lys Asn Leu His Asp Ala
 290 295 300
 Ile Gln Lys Ala Asp Met Glu Asp Ala Glu Ala Met Lys Arg Phe Ala
 305 310 315 320
 Thr Gln Lys Glu Lys Ser Glu Lys Phe Ile Gln Glu Asn Leu Asp Arg
 325 330 335
 Gln Asp Glu Ala Trp Arg Arg Ile Gln Glu Leu Glu Arg Val Leu Gln
 340 345 350
 Arg Leu Gly Thr Glu Arg Phe Glu Glu Val Lys Arg Arg Ile Glu Glu
 355 360 365
 Asn Asp Arg Glu Glu Lys Arg Lys Val Glu Tyr Gln Gln Phe Leu Asp
 370 375 380
 Val Cys Gly Gln His Lys Lys Leu Leu Glu Leu Ser Val Tyr Asn Cys
 385 390 395 400
 Asp Leu Ala Met Arg Cys Ile Gly Met Met Glu Glu Leu Val Ala Glu
 405 410 415
 Gly Cys Ser Ala Ile Lys Ser Arg His Asp Lys Thr Asn Glu Glu Leu
 420 425 430
 Gly Asp Leu Arg Leu Gln Val His Gln Glu Tyr Leu Glu Ala Phe Arg
 435 440 445

Arg Leu Tyr Lys Thr Leu Gly Gln Leu Val⁶ Tyr Lys Lys Glu Lys Arg
 450 455 460
 Leu Glu Glu Ile Asp Arg Asn Ile Arg Thr Thr His Ile Gln Leu Glu
 465 470 475 480
 Phe Ala Ile Glu Thr Phe Asp Pro Asn Ala Lys Lys His Ser Asp Ala
 485 490 495
 Lys Lys Glu Leu Tyr Lys Leu Arg Ala Gln Val Glu Glu Glu Leu Glu
 500 505 510
 Met Leu Lys Asp Lys Met Ala Gln Ala Leu Glu Met Phe Gly Pro Thr
 515 520 525
 Glu Asp Ala Leu Asn Gln Ala Gly Ile Glu Phe Val His Pro Ala Glu
 530 535 540
 Glu Val Glu Asp Gly Asn Leu Thr Arg Arg Ser Lys Met Val Glu Tyr
 545 550 555 560
 Arg Ala His Leu Ala Lys Gln Glu Glu Val Lys Ile Ala Ala Glu Arg
 565 570 575
 Glu Glu Leu Lys Arg Ser Lys Thr Leu Gln Ser Gln Gln Tyr Arg Gly
 580 585 590
 Lys Thr Val Gln Gln Ile Thr Gln
 595 600

<210> 4
 <211> 218
 <212> PRT
 <213> Trypanosoma cruzi

<220>
 <221> misc_feature
 <222> (178)..(178)
 <223> xaa can be any naturally occurring amino acid

<400> 4

Met Arg Gly Ser His His His His His His Gly Ser Ala Cys Glu Leu
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 Gly Thr Gly Thr Thr Cys Gln Val Phe Ser Asp Gly His Pro Ala Val
 20 25 30
 Gly Val Ile Asn Ile Pro Ala Ala Asn Ile Ala Ser Arg Tyr Asp Gln
 35 40 45
 Leu Val Thr Arg Val Val Thr His Glu Met Ala His Ala Leu Gly Phe
 50 55 60

ser val Gly Phe Phe Glu Gly Ala Arg Ile⁷ Leu Glu Ser Ile Ser Asn
 65 70 75 80
 val Arg His Lys Asp Phe Asp Val Pro Val Ile Asn Ser Ser Thr Ala
 85 90 95
 val Ala Lys Ala Arg Glu Gln Tyr Gly Cys Asp Thr Leu Glu Tyr Leu
 100 105 110
 Glu Ile Glu Asp Gln Gly Gly Ala Gly Ser Ala Gly Ser His Ile Lys
 115 120 125
 Met Arg Asn Ala Gln Asp Glu Leu Met Ala Pro Ala Ala Ala Ala Gly
 130 135 140
 Tyr Tyr Ser Ala Leu Thr Met Ala Ile Phe Gln Asp Leu Gly Phe Tyr
 145 150 155 160
 Gln Ala Asp Phe Ser Lys Ala Glu Val Met Pro Trp Gly Arg Gly Lys
 165 170 175
 Leu Xaa Pro Ala Gly Gly Leu Pro Ser Gly Gly Ser Gln Cys Leu Arg
 180 185 190
 Ala Cys His Ser Asp Ser Val Arg Gln Gln Arg Arg Phe Pro Gly Asp
 195 200 205
 Thr Arg Cys Val Gly Thr Ala Gly Arg Gln
 210 215