

PCT56225\_SeqList\_App1No.notyetassigned.txt  
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<110> Bujard, Hermann  
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<141> 2009-07-03  
<150> EP 08 012 149.4  
<151> 2008-07-04  
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Ser Gly Ala Ser Ala Gln Ser Gly Ala Ser Ala Gln Ser Gly Ala Ser  
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100 105 110  
Asp Ala Ser Asp Ser Asp Ala Lys Ser Tyr Ala Asp Leu Lys His Arg  
115 120 125  
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130 135 140  
Phe Asp Leu Thr Asn His Met Leu Thr Leu Cys Asp Asn Ile His Gly  
145 150 155 160

Phe Lys Tyr Leu Ile Asp Gly Tyr Glu Glu Ile Asn Glu Leu Leu Tyr  
 165 170 175  
 Lys Leu Asn Phe Tyr Phe Asp Leu Leu Arg Ala Lys Leu Asn Asp Val  
 180 185 190  
 Cys Ala Asn Asp Tyr Cys Gln Ile Pro Phe Asn Leu Lys Ile Arg Ala  
 195 200 205  
 Asn Glu Leu Asp Val Leu Lys Lys Leu Val Phe Gly Tyr Arg Lys Pro  
 210 215 220  
 Leu Asp Asn Ile Lys Asp Asn Val Gly Lys Met Glu Asp Tyr Ile Lys  
 225 230 235 240  
 Lys Asn Lys Thr Thr Ile Ala Asn Ile Asn Glu Leu Ile Glu Gly Ser  
 245 250 255  
 Lys Lys Thr Ile Asp Gln Asn Lys Asn Ala Asp Asn Glu Glu Gly Lys  
 260 265 270  
 Lys Lys Leu Tyr Gln Ala Gln Tyr Asp Leu Ser Ile Tyr Asn Lys Gln  
 275 280 285  
 Leu Glu Glu Ala His Asn Leu Ile Ser Val Leu Glu Lys Arg Ile Asp  
 290 295 300  
 Thr Leu Lys Lys Asn Glu Asn Ile Lys Lys Leu Leu Asp Lys Ile Asn  
 305 310 315 320  
 Glu Ile Lys Asn Pro Pro Pro Ala Asn Ser Gly Asn Thr Pro Asn Thr  
 325 330 335  
 Leu Leu Asp Lys Asn Lys Lys Ile Glu Glu His Glu Glu Lys Ile Lys  
 340 345 350  
 Glu Ile Ala Lys Thr Ile Lys Phe Asn Ile Asp Ser Leu Phe Thr Asp  
 355 360 365  
 Pro Leu Glu Leu Glu Tyr Tyr Leu Arg Glu Lys Asn Lys Lys Val Asp  
 370 375 380  
 Val Thr Pro Lys Ser Gln Asp Pro Thr Lys Ser Val Gln Ile Pro Lys  
 385 390 395 400  
 Val Pro Tyr Pro Asn Gly Ile Val Tyr Pro Leu Pro Leu Thr Asp Ile  
 405 410 415  
 His Asn Ser Leu Ala Ala Asp Asn Asp Lys Asn Ser Tyr Gly Asp Leu  
 420 425 430

Met Asn Pro His Thr Lys Glu Lys Ile Asn Glu Lys Ile Ile Thr Asp  
 435 440 445

Asn Lys Glu Arg Lys Ile Phe Ile Asn Asn Ile Lys Lys Lys Ile Asp  
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Leu Glu Glu Lys Asn Ile Asn His Thr Lys Glu Gln Asn Lys Lys Leu  
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Leu Glu Asp Tyr Glu Lys Ser Lys Lys Asp Tyr Glu Glu Leu Leu Glu  
 485 490 495

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 500 505 510

Asp Lys Ile Phe Ser Ala Arg Tyr Thr Tyr Asn Val Glu Lys Gln Arg  
 515 520 525

Tyr Asn Asn Lys Phe Ser Ser Ser Asn Asn Ser Val Tyr Asn Val Gln  
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Lys Leu Lys Lys Ala Leu Ser Tyr Leu Glu Asp Tyr Ser Leu Arg Lys  
 545 550 555 560

Gly Ile Ser Glu Lys Asp Phe Asn His Tyr Tyr Thr Leu Lys Thr Gly  
 565 570 575

Leu Glu Ala Asp Ile Lys Lys Leu Thr Glu Glu Ile Lys Ser Ser Glu  
 580 585 590

Asn Lys Ile Leu Glu Lys Asn Phe Lys Gly Leu Thr His Ser Ala Asn  
 595 600 605

Gly Ser Leu Glu Val Ser Asp Ile Val Lys Leu Gln Val Gln Lys Val  
 610 615 620

Leu Leu Ile Lys Lys Ile Glu Asp Leu Arg Lys Ile Glu Leu Phe Leu  
 625 630 635 640

Lys Asn Ala Gln Leu Lys Asp Ser Ile His Val Pro Asn Ile Tyr Lys  
 645 650 655

Pro Gln Asn Lys Pro Glu Pro Tyr Tyr Leu Ile Val Leu Lys Lys Glu  
 660 665 670

Val Asp Lys Leu Lys Glu Phe Ile Pro Lys Val Lys Asp Met Leu Lys  
 675 680 685

Lys Glu Gln Ala Val Leu Ser Ser Ile Thr Gln Pro Leu Val Ala Ala  
 690 695 700

Ser Glu Thr Thr Glu Asp Gly Gly His Ser Thr His Thr Leu Ser Gln  
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Ser Gly Glu Thr Glu Val Thr Glu Glu Thr Glu Glu Thr Glu Glu Thr  
725 730 735

Val Gly His Thr Thr Thr Val Thr Ile Thr Leu Pro Pro Thr Gln Pro  
740 745 750

Ser Pro Pro Lys Glu Val Lys Val Val Glu Asn Ser Ile Glu Gln Lys  
755 760 765

Ser Asn Asp Asn Ser Gln Ala Leu Thr Lys Thr Val Tyr Leu Lys Lys  
770 775 780

Leu Asp Glu Phe Leu Thr Lys Ser Tyr Ile Cys His Lys Tyr Ile Leu  
785 790 795 800

Val Ser Asn Ser Ser Met Asp Gln Lys Leu Leu Glu Val Tyr Asn Leu  
805 810 815

Thr Pro Glu Glu Glu Asn Glu Leu Lys Ser Cys Asp Pro Leu Asp Leu  
820 825 830

Leu Phe Asn Ile Gln Asn Asn Ile Pro Ala Met Tyr Ser Leu Tyr Asp  
835 840 845

Ser Met Asn Asn Asp Leu Gln His Leu Phe Phe Glu Leu Tyr Gln Lys  
850 855 860

Glu Met Ile Tyr Tyr Leu His Lys Leu Lys Glu Glu Asn His Ile Lys  
865 870 875 880

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<210> 2

<211> 893

<212> PRT

<213> Artificial Sequence

<220>

<223> p83/30 from P. falciparum strain 3D7 (amino acid mutations E612K and Q767H)

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Met Val Leu Asn Glu Glu Glu Ile Thr Thr Lys Gly Ala Ser Ala Gln

35

40

45

Ser Gly Ala Ser Ala Gln Ser Gly Ala Ser Ala Gln Ser Gly Ala Ser  
 50 55 60

Ala Gln Ser Gly Ala Ser Ala Gln Ser Gly Ala Ser Ala Gln Ser Gly  
 65 70 75 80

Thr Ser Gly Pro Ser Gly Pro Ser Gly Thr Ser Pro Ser Ser Arg Ser  
 85 90 95

Asn Thr Leu Pro Arg Ser Asn Thr Ser Ser Gly Ala Ser Pro Pro Ala  
 100 105 110

Asp Ala Ser Asp Ser Asp Ala Lys Ser Tyr Ala Asp Leu Lys His Arg  
 115 120 125

Val Arg Asn Tyr Leu Phe Thr Ile Lys Glu Leu Lys Tyr Pro Glu Leu  
 130 135 140

Phe Asp Leu Thr Asn His Met Leu Thr Leu Cys Asp Asn Ile His Gly  
 145 150 155 160

Phe Lys Tyr Leu Ile Asp Gly Tyr Glu Glu Ile Asn Glu Leu Leu Tyr  
 165 170 175

Lys Leu Asn Phe Tyr Phe Asp Leu Leu Arg Ala Lys Leu Asn Asp Val  
 180 185 190

Cys Ala Asn Asp Tyr Cys Gln Ile Pro Phe Asn Leu Lys Ile Arg Ala  
 195 200 205

Asn Glu Leu Asp Val Leu Lys Lys Leu Val Phe Gly Tyr Arg Lys Pro  
 210 215 220

Leu Asp Asn Ile Lys Asp Asn Val Gly Lys Met Glu Asp Tyr Ile Lys  
 225 230 235 240

Lys Asn Lys Thr Thr Ile Ala Asn Ile Asn Glu Leu Ile Glu Gly Ser  
 245 250 255

Lys Lys Thr Ile Asp Gln Asn Lys Asn Ala Asp Asn Glu Glu Gly Lys  
 260 265 270

Lys Lys Leu Tyr Gln Ala Gln Tyr Asp Leu Ser Ile Tyr Asn Lys Gln  
 275 280 285

Leu Glu Glu Ala His Asn Leu Ile Ser Val Leu Glu Lys Arg Ile Asp  
 290 295 300

Thr Leu Lys Lys Asn Glu Asn Ile Lys Lys Leu Leu Asp Lys Ile Asn

305 310 315 320  
 Glu Ile Lys Asn Pro Pro Pro Ala Asn Ser Gly Asn Thr Pro Asn Thr  
 325 330 335  
 Leu Leu Asp Lys Asn Lys Lys Ile Glu Glu His Glu Glu Lys Ile Lys  
 340 345 350  
 Glu Ile Ala Lys Thr Ile Lys Phe Asn Ile Asp Ser Leu Phe Thr Asp  
 355 360 365  
 Pro Leu Glu Leu Glu Tyr Tyr Leu Arg Glu Lys Asn Lys Lys Val Asp  
 370 375 380  
 Val Thr Pro Lys Ser Gln Asp Pro Thr Lys Ser Val Gln Ile Pro Lys  
 385 390 395 400  
 Val Pro Tyr Pro Asn Gly Ile Val Tyr Pro Leu Pro Leu Thr Asp Ile  
 405 410 415  
 His Asn Ser Leu Ala Ala Asp Asn Asp Lys Asn Ser Tyr Gly Asp Leu  
 420 425 430  
 Met Asn Pro His Thr Lys Glu Lys Ile Asn Glu Lys Ile Ile Thr Asp  
 435 440 445  
 Asn Lys Glu Arg Lys Ile Phe Ile Asn Asn Ile Lys Lys Lys Ile Asp  
 450 455 460  
 Leu Glu Glu Lys Asn Ile Asn His Thr Lys Glu Gln Asn Lys Lys Leu  
 465 470 475 480  
 Leu Glu Asp Tyr Glu Lys Ser Lys Lys Asp Tyr Glu Glu Leu Leu Glu  
 485 490 495  
 Lys Phe Tyr Glu Met Lys Phe Asn Asn Asn Phe Asp Lys Asp Val Val  
 500 505 510  
 Asp Lys Ile Phe Ser Ala Arg Tyr Thr Tyr Asn Val Glu Lys Gln Arg  
 515 520 525  
 Tyr Asn Asn Lys Phe Ser Ser Ser Asn Asn Ser Val Tyr Asn Val Gln  
 530 535 540  
 Lys Leu Lys Lys Ala Leu Ser Tyr Leu Glu Asp Tyr Ser Leu Arg Lys  
 545 550 555 560  
 Gly Ile Ser Glu Lys Asp Phe Asn His Tyr Tyr Thr Leu Lys Thr Gly  
 565 570 575  
 Leu Glu Ala Asp Ile Lys Lys Leu Thr Glu Glu Ile Lys Ser Ser Glu

Asn Lys Ile Leu Glu Lys Asn Phe Lys Gly Leu Thr His Ser Ala Asn  
595 600 605

Gly Ser Leu Lys Val Ser Asp Ile Val Lys Leu Gln Val Gln Lys Val  
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Leu Leu Ile Lys Lys Ile Glu Asp Leu Arg Lys Ile Glu Leu Phe Leu  
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Pro Gln Asn Lys Pro Glu Pro Tyr Tyr Leu Ile Val Leu Lys Lys Glu  
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675 680 685

Lys Glu Gln Ala Val Leu Ser Ser Ile Thr Gln Pro Leu Val Ala Ala  
690 695 700

Ser Glu Thr Thr Glu Asp Gly Gly His Ser Thr His Thr Leu Ser Gln  
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Ser Gly Glu Thr Glu Val Thr Glu Glu Thr Glu Glu Thr Glu Glu Thr  
725 730 735

Val Gly His Thr Thr Thr Val Thr Ile Thr Leu Pro Pro Thr Gln Pro  
740 745 750

Ser Pro Pro Lys Glu Val Lys Val Val Glu Asn Ser Ile Glu His Lys  
755 760 765

Ser Asn Asp Asn Ser Gln Ala Leu Thr Lys Thr Val Tyr Leu Lys Lys  
770 775 780

Leu Asp Glu Phe Leu Thr Lys Ser Tyr Ile Cys His Lys Tyr Ile Leu  
785 790 795 800

Val Ser Asn Ser Ser Met Asp Gln Lys Leu Leu Glu Val Tyr Asn Leu  
805 810 815

Thr Pro Glu Glu Glu Asn Glu Leu Lys Ser Cys Asp Pro Leu Asp Leu  
820 825 830

Leu Phe Asn Ile Gln Asn Asn Ile Pro Ala Met Tyr Ser Leu Tyr Asp  
835 840 845

Ser Met Asn Asn Asp Leu Gln His Leu Phe Phe Glu Leu Tyr Gln Lys

850

855

860

Glu Met Ile Tyr Tyr Leu His Lys Leu Lys Glu Glu Asn His Ile Lys  
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&lt;210&gt; 3

&lt;211&gt; 891

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; p83/30 from P. falciparum strain FCB-1

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Leu Glu Asp Ala Val Leu Thr Gly Tyr Ser Leu Phe Gln Lys Glu Lys  
 20 25 30

Met Val Leu Asn Glu Gly Thr Ser Gly Thr Ala Val Thr Thr Ser Thr  
 35 40 45

Pro Gly Ser Lys Gly Ser Val Ala Ser Gly Gly Ser Gly Gly Ser Val  
 50 55 60

Ala Ser Gly Gly Ser Val Ala Ser Gly Gly Ser Val Ala Ser Gly Gly  
 65 70 75 80

Ser Val Ala Ser Gly Gly Ser Gly Asn Ser Arg Arg Thr Asn Pro Ser  
 85 90 95

Asp Asn Ser Ser Asp Ser Asp Ala Lys Ser Tyr Ala Asp Leu Lys His  
 100 105 110

Arg Val Arg Asn Tyr Leu Leu Thr Ile Lys Glu Leu Lys Tyr Pro Gln  
 115 120 125

Leu Phe Asp Leu Thr Asn His Met Leu Thr Leu Cys Asp Asn Ile His  
 130 135 140

Gly Phe Lys Tyr Leu Ile Asp Gly Tyr Glu Glu Ile Asn Glu Leu Leu  
 145 150 155 160

Tyr Lys Leu Asn Phe Tyr Phe Asp Leu Leu Arg Ala Lys Leu Asn Asp  
 165 170 175

Val Cys Ala Asn Asp Tyr Cys Gln Ile Pro Phe Asn Leu Lys Ile Arg  
 180 185 190



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Ala Asn Glu Leu Asp Val Leu Lys Lys Leu Val Phe Gly Tyr Arg Lys  
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Pro Leu Asp Asn Ile Lys Asp Asn Val Gly Lys Met Glu Asp Tyr Ile  
210 215 220

Lys Lys Asn Lys Lys Thr Ile Glu Asn Ile Asn Glu Leu Ile Glu Glu  
225 230 235 240

Ser Lys Lys Thr Ile Asp Lys Asn Lys Asn Ala Thr Lys Glu Glu Glu  
245 250 255

Lys Lys Lys Leu Tyr Gln Ala Gln Tyr Asp Leu Ser Ile Tyr Asn Lys  
260 265 270

Gln Leu Glu Glu Ala His Asn Leu Ile Ser Val Leu Glu Lys Arg Ile  
275 280 285

Asp Thr Leu Lys Lys Asn Glu Asn Ile Lys Glu Leu Leu Asp Lys Ile  
290 295 300

Asn Glu Ile Lys Asn Pro Pro Pro Ala Asn Ser Gly Asn Thr Pro Asn  
305 310 315 320

Thr Leu Leu Asp Lys Asn Lys Lys Ile Glu Glu His Glu Lys Glu Ile  
325 330 335

Lys Glu Ile Ala Lys Thr Ile Lys Phe Asn Ile Asp Ser Leu Phe Thr  
340 345 350

Asp Pro Leu Glu Leu Glu Tyr Tyr Leu Arg Glu Lys Asn Lys Asn Ile  
355 360 365

Asp Ile Ser Ala Lys Val Glu Thr Lys Glu Ser Thr Glu Pro Asn Glu  
370 375 380

Tyr Pro Asn Gly Val Thr Tyr Pro Leu Ser Tyr Asn Asp Ile Asn Asn  
385 390 395 400

Ala Leu Asn Glu Leu Asn Ser Phe Gly Asp Leu Ile Asn Pro Phe Asp  
405 410 415

Tyr Thr Lys Glu Pro Ser Lys Asn Ile Tyr Thr Asp Asn Glu Arg Lys  
420 425 430

Lys Phe Ile Asn Glu Ile Lys Glu Lys Ile Lys Ile Glu Lys Lys Lys  
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Ile Glu Ser Asp Lys Lys Ser Tyr Glu Asp Arg Ser Lys Ser Leu Asn  
450 455 460

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 485 490 495  
 Lys Arg Tyr Ser Tyr Lys Val Glu Lys Leu Thr His His Asn Thr Phe  
 500 505 510  
 Ala Ser Tyr Glu Asn Ser Lys His Asn Leu Glu Lys Leu Thr Lys Ala  
 515 520 525  
 Leu Lys Tyr Met Glu Asp Tyr Ser Leu Arg Asn Ile Val Val Glu Lys  
 530 535 540  
 Glu Leu Lys Tyr Tyr Lys Asn Leu Ile Ser Lys Ile Glu Asn Glu Ile  
 545 550 555 560  
 Glu Thr Leu Val Glu Asn Ile Lys Lys Asp Glu Glu Gln Leu Phe Glu  
 565 570 575  
 Lys Lys Ile Thr Lys Asp Glu Asn Lys Pro Asp Glu Lys Ile Leu Glu  
 580 585 590  
 Val Ser Asp Ile Val Lys Val Gln Val Gln Lys Val Leu Leu Met Asn  
 595 600 605  
 Lys Ile Asp Glu Leu Lys Lys Thr Gln Leu Ile Leu Lys Asn Val Glu  
 610 615 620  
 Leu Lys His Asn Ile His Val Pro Asn Ser Tyr Lys Gln Glu Asn Lys  
 625 630 635 640  
 Gln Glu Pro Tyr Tyr Leu Ile Val Leu Lys Lys Glu Ile Asp Lys Leu  
 645 650 655  
 Lys Val Phe Met Pro Lys Val Glu Ser Leu Ile Asn Glu Glu Lys Lys  
 660 665 670  
 Asn Ile Lys Thr Glu Gly Gln Ser Asp Asn Ser Glu Pro Ser Thr Glu  
 675 680 685  
 Gly Glu Ile Thr Gly Gln Ala Thr Thr Lys Pro Gly Gln Gln Ala Gly  
 690 695 700  
 Ser Ala Leu Glu Gly Asp Ser Val Gln Ala Gln Ala Gln Glu Gln Lys  
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 Gln Ala Gln Pro Pro Val Pro Val Pro Val Pro Glu Ala Lys Ala Gln  
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Val Pro Thr Pro Pro Ala Pro Val Asn Asn Lys Thr Glu Asn Val Ser  
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Lys Leu Asp Tyr Leu Glu Lys Leu Tyr Glu Phe Leu Asn Thr Ser Tyr  
755 760 765

Ile Cys His Lys Tyr Ile Leu Val Ser His Ser Thr Met Asn Glu Lys  
770 775 780

Ile Leu Lys Gln Tyr Lys Ile Thr Lys Glu Glu Glu Ser Lys Leu Ser  
785 790 795 800

Ser Cys Asp Pro Leu Asp Leu Leu Phe Asn Ile Gln Asn Asn Ile Pro  
805 810 815

Val Met Tyr Ser Met Phe Asp Ser Leu Asn Asn Ser Leu Ser Gln Leu  
820 825 830

Phe Met Glu Ile Tyr Glu Lys Glu Met Val Cys Asn Leu Tyr Lys Leu  
835 840 845

Lys Asp Asn Asp Lys Ile Lys Asn Leu Leu Glu Glu Ala Lys Lys Val  
850 855 860

Ser Thr Ser Val Lys Thr Leu Ser Ser Ser Ser Met Gln Pro Leu Ser  
865 870 875 880

Leu Thr Pro Gln Asp Lys Pro Glu Val Ser Ala  
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<212> PRT  
<213> Artificial Sequence

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35 40 45

Glu Glu Ser His Asp Pro Leu Thr Val Leu Ser Ile Ser Asn Asp Leu  
50 55 60

Lys Gly Ile Val Ser Leu Leu Asn Leu Gly Asn Lys Thr Lys Val Pro

65

70

75

80

Asn Pro Leu Thr Ile Ser Thr Thr Glu Met Glu Lys Phe Tyr Glu Asn  
85 90 95

Ile Leu Lys Asn Asn Asp Thr Tyr Phe Asn Asp Asp Ile Lys Gln Phe  
100 105 110

Val Lys Ser Asn Ser Lys Val Ile Thr Gly Leu Thr Glu Thr Gln Lys  
115 120 125

Asn Ala Leu Asn Asp Glu Ile Lys Lys Leu Lys Asp Thr Leu Gln Leu  
130 135 140

Ser Phe Asp Leu Tyr Asn Lys Tyr Lys Leu Lys Leu Asp Arg Leu Phe  
145 150 155 160

Asn Lys Lys Lys Glu Leu Gly Gln Asp Lys Met Gln Ile Lys Lys Leu  
165 170 175

Thr Leu Leu Lys Glu Gln Leu Glu Ser Lys Leu Asn Ser Leu Asn Asn  
180 185 190

Pro His Asn Val Leu Gln Asn Phe Ser Val Phe Phe Asn Lys Lys Lys  
195 200 205

Glu Ala Glu Ile Ala Glu Thr Glu Asn Thr Leu Glu Asn Thr Lys Ile  
210 215 220

Leu Leu Lys His Tyr Lys Gly Leu Val Lys Tyr Tyr Asn Gly Glu Ser  
225 230 235 240

Ser Pro Leu Lys Thr Leu Ser Glu Val Ser Ile Gln Thr Glu Asp Asn  
245 250 255

Tyr Ala Asn Leu Glu Lys Phe Arg Val Leu Ser Lys Ile Asp Gly Lys  
260 265 270

Leu Asn Asp Asn Leu His Leu Gly Lys Lys Lys Leu Ser Phe Leu Ser  
275 280 285

Ser Gly Leu His His Leu Ile Thr Glu Leu Lys Glu Val Ile Lys Asn  
290 295 300

Lys Asn Tyr Thr Gly Asn Ser Pro Ser Glu Asn Asn Lys Lys Val Asn  
305 310 315 320

Glu Ala Leu Lys Ser Tyr Glu Asn Phe Leu Pro Glu Ala Lys Val Thr  
325 330 335

Thr Val Val Thr Pro Pro Gln Pro Asp Val Thr Pro Ser Pro Leu Ser  
Page 12

Val Arg Val Ser Gly Ser Ser Gly Ser Thr Lys Glu Glu Thr Gln Ile  
355 360 365

Pro Thr Ser Gly Ser Leu Leu Thr Glu Leu Gln Gln Val Val Gln Leu  
370 375 380

Gln Asn Tyr Asp Glu Glu Asp Asp Ser Leu Val Val Leu Pro Ile Phe  
385 390 395 400

Gly Glu Ser Glu Asp Asn Asp Glu Tyr Leu Asp Gln Val Val Thr Gly  
405 410 415

Glu Ala Ile Ser Val Thr Met Asp Asn Ile Leu Ser Gly Phe Glu Asn  
420 425 430

Glu Tyr Asp Val Ile Tyr Leu Lys Pro Leu Ala Gly Val Tyr Arg Ser  
435 440 445

Leu Lys Lys Gln Ile Glu Lys Asn Ile Phe Thr Phe Asn Leu Asn Leu  
450 455 460

Asn Asp Ile Leu Asn Ser Arg Leu Lys Lys Arg Lys Tyr Phe Leu Asp  
465 470 475 480

Val Leu Glu Ser Asp Leu Met Gln Phe Lys His Ile Ser Ser Asn Glu  
485 490 495

Tyr Ile Ile Glu Asp Ser Phe Lys Leu Leu Asn Ser Glu Gln Lys Asn  
500 505 510

Thr Leu Leu Lys Ser Tyr Lys Tyr Ile Lys Glu Ser Val Glu Asn Asp  
515 520 525

Ile Lys Phe Ala Gln Glu Gly Ile Ser Tyr Tyr Glu Lys Val Leu Ala  
530 535 540

Lys Tyr Lys Asp Asp Leu Glu Ser Ile Lys Lys Val Ile Lys Glu Glu  
545 550 555 560

Lys Glu Lys Phe Pro Ser Ser Pro Pro Thr Thr Pro Pro Ser Pro Ala  
565 570 575

Lys Thr Asp Glu Gln Lys Lys Glu Ser Lys Phe Leu Pro Phe Leu Thr  
580 585 590

Asn Ile Glu Thr Leu Tyr Asn Asn Leu Val Asn Lys Ile Asp Asp Tyr  
595 600 605

Leu Ile Asn Leu Lys Ala Lys Ile Asn Asp Cys Asn Val Glu Lys Asp

610

615

620

Glu Ala His Val Lys Ile Thr Lys Leu Ser Asp Leu Lys Ala Ile Asp  
625 630 635 640

Asp Lys Ile Asp Leu Phe Lys Asn Pro Tyr Asp Phe Glu Ala Ile Lys  
645 650 655

Lys Leu Ile Asn Asp Asp Thr Lys Lys Asp Met Leu Gly Lys Leu Leu  
660 665 670

Ser Thr Gly Leu Val Gln Asn Phe Pro Asn Thr Ile Ile Ser Lys Leu  
675 680 685

Ile Glu Gly Lys Phe Gln Asp Met Leu Asn Ile Ser Gln His Gln Cys  
690 695 700

Val Lys Lys Gln Cys Pro Glu Asn Ser Gly Cys Phe Arg His Leu Asp  
705 710 715 720

Glu Arg Glu Glu Cys Lys Cys Leu Leu Asn Tyr Lys Gln Glu Gly Asp  
725 730 735

Lys Cys Val Glu Asn Pro Asn Pro Thr Cys Asn Glu Asn Asn Gly Gly  
740 745 750

Cys Asp Ala Asp Ala Thr Cys Thr Glu Glu Asp Ser Gly Ser Ser Arg  
755 760 765

Lys Lys Ile Thr Cys Glu Cys Thr Lys Pro Asp Ser Tyr Pro Leu Phe  
770 775 780

Asp Gly Ile Phe Cys Ser Ser Ser Asn Val  
785 790

&lt;210&gt; 5

&lt;211&gt; 713

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; p38/42 from P. falciparum strain FCB-1

&lt;400&gt; 5

Met Asn Asp Asp Thr Ser His Ser Thr Asn Leu Asn Asn Ser Leu Lys  
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Leu Phe Glu Asn Ile Leu Ser Leu Gly Lys Asn Lys Asn Ile Tyr Gln  
20 25 30

Glu Leu Ile Gly Gln Lys Ser Ser Glu Asn Phe Tyr Glu Lys Ile Leu  
35 40 45

PCT56225\_SeqList\_App1No.notyetassigned.txt

Lys Asp Ser Asp Thr Phe Tyr Asn Glu Ser Phe Thr Asn Phe Val Lys  
 50 55 60  
 Ser Lys Ala Asp Asp Ile Asn Ser Leu Asn Asp Glu Ser Lys Arg Lys  
 65 70 75 80  
 Lys Leu Glu Glu Asp Ile Asn Lys Leu Lys Lys Thr Leu Gln Leu Ser  
 85 90 95  
 Phe Asp Leu Tyr Asn Lys Tyr Lys Leu Lys Leu Glu Arg Leu Phe Asp  
 100 105 110  
 Lys Lys Lys Thr Val Gly Lys Tyr Lys Met Gln Ile Lys Lys Leu Thr  
 115 120 125  
 Leu Leu Lys Glu Gln Leu Glu Ser Lys Leu Asn Ser Leu Asn Asn Pro  
 130 135 140  
 Lys His Val Leu Gln Asn Phe Ser Val Phe Phe Asn Lys Lys Lys Glu  
 145 150 155 160  
 Ala Glu Ile Ala Glu Thr Glu Asn Thr Leu Glu Asn Thr Lys Ile Leu  
 165 170 175  
 Leu Lys His Tyr Lys Gly Leu Val Lys Tyr Tyr Asn Gly Glu Ser Ser  
 180 185 190  
 Pro Leu Lys Thr Leu Ser Glu Glu Ser Ile Gln Thr Glu Asp Asn Tyr  
 195 200 205  
 Ala Ser Leu Glu Asn Phe Lys Val Leu Ser Lys Leu Glu Gly Lys Leu  
 210 215 220  
 Lys Asp Asn Leu Asn Leu Glu Lys Lys Lys Leu Ser Tyr Leu Ser Ser  
 225 230 235 240  
 Gly Leu His His Leu Ile Ala Glu Leu Lys Glu Val Ile Lys Asn Lys  
 245 250 255  
 Asn Tyr Thr Gly Asn Ser Pro Ser Glu Asn Asn Thr Asp Val Asn Asn  
 260 265 270  
 Ala Leu Glu Ser Tyr Lys Lys Phe Leu Pro Glu Gly Thr Asp Val Ala  
 275 280 285  
 Thr Val Val Ser Glu Ser Gly Ser Asp Thr Leu Glu Gln Ser Gln Pro  
 290 295 300  
 Lys Lys Pro Ala Ser Thr His Val Gly Ala Glu Ser Asn Thr Ile Thr  
 305 310 315 320

PCT56225\_SeqList\_App1No.notyetassigned.txt

Thr Ser Gln Asn Val Asp Asp Glu Val Asp Asp Val Ile Ile Val Pro  
325 330 335

Ile Phe Gly Glu Ser Glu Glu Asp Tyr Asp Asp Leu Gly Gln Val Val  
340 345 350

Thr Gly Glu Ala Val Thr Pro Ser Val Ile Asp Asn Ile Leu Ser Lys  
355 360 365

Ile Glu Asn Glu Tyr Glu Val Leu Tyr Leu Lys Pro Leu Ala Gly Val  
370 375 380

Tyr Arg Ser Leu Lys Lys Gln Leu Glu Asn Asn Val Met Thr Phe Asn  
385 390 395 400

Val Asn Val Lys Asp Ile Leu Asn Ser Arg Phe Asn Lys Arg Glu Asn  
405 410 415

Phe Lys Asn Val Leu Glu Ser Asp Leu Ile Pro Tyr Lys Asp Leu Thr  
420 425 430

Ser Ser Asn Tyr Val Val Lys Asp Pro Tyr Lys Phe Leu Asn Lys Glu  
435 440 445

Lys Arg Asp Lys Phe Leu Ser Ser Tyr Asn Tyr Ile Lys Asp Ser Ile  
450 455 460

Asp Thr Asp Ile Asn Phe Ala Asn Asp Val Leu Gly Tyr Tyr Lys Ile  
465 470 475 480

Leu Ser Glu Lys Tyr Lys Ser Asp Leu Asp Ser Ile Lys Lys Tyr Ile  
485 490 495

Asn Asp Lys Gln Gly Glu Asn Glu Lys Tyr Leu Pro Phe Leu Asn Asn  
500 505 510

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