

LISTADO DE SECUENCIAS

<110> Ultragenyx Pharmaceutical, Inc.
 Kyowa Hakko Kirin Co., Ltd.
 Kakkis, Emil D.
 San Martín, Javier
 Sudo, Tomohiro

5 <120> EL CONTROL EFECTIVO Y EFICIENTE DE FOSFATO DEL SUERO PARA
 FORMACIÓN ÓSEA ÓPTIMA

<130> ULPI-022/01WO 315613-2246

<150> US 62/009,474
 <151> 2014-06-09

<160> 17

10 <170> PatentIn versión 3.5

<210> 1
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 FGF23

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15 Asn His Tyr Met His
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Ile Ile Asn Pro Ile Ser Gly Ser Thr Ser Asn Ala Gln Lys Phe Gln
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Gly

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 Asp Ile Val Asp Ala Phe Asp Phe
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 Arg Ala Ser Gln Gly Ile Ser Ser Ala Leu Val
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 Asp Ala Ser Ser Leu Glu Ser
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Gln Gln Phe Asn Asp Tyr Phe Thr
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn His
 20 25 30

10 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ile Ile Asn Pro Ile Ser Gly Ser Thr Ser Asn Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

15 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Ile Val Asp Ala Phe Asp Phe Trp Gly Gln Gly Thr Met
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

20 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

25

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

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 405 410 415

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 420 425 430

5 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Ala
 20 25 30

15 Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Asp Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

20 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Asn Asp Tyr Phe Thr
 85 90 95

Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala Pro
 100 105 110

Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr
 115 120 125

25

Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
130 135 140

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu
145 150 155 160

5 Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser
165 170 175

Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala
180 185 190

Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe
195 200 205

10 Asn Arg Gly Glu Cys
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15 <400> 9

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn His
20 25 30

20 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asn Pro Ile Ser Gly Ser Thr Ser Asn Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

25 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 340 345 350
 Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 355 360 365
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 5 370 375 380
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 385 390 395 400
 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 405 410 415
 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 10 420 425 430
 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Ala
 20 20 25 30
 Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Asn Asp Tyr Phe Thr
 85 90 95
 Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala Pro
 5 100 105 110
 Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr
 115 120 125
 Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
 130 135 140
 Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu
 10 145 150 155 160
 Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser
 165 170 175
 Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala
 180 185 190
 Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe
 15 195 200 205
 Asn Arg Gly Glu Cys
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<222> (3)..(3)
 <223> Puede ser Thr

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Arg Xaa Xaa Arg
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5 <210> 12
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 <213> Homo sapiens

<400> 12

Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser Val
 1 5 10 15

10 Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro Leu Leu
 20 25 30

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
 35 40 45

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
 50 55 60

15 Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
 65 70 75 80

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
 85 90 95

Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn
 100 105 110

20 Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His
 115 120 125

Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
 130 135 140

Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg
 145 150 155 160

5

10

15

20

25

Cys Lys Phe Arg Gln Trp Thr Leu Glu Asn Gly Tyr Asp Val Tyr Leu
 115 120 125
 Ser Gln Lys His His Tyr Leu Val Ser Leu Gly Arg Ala Lys Arg Ile
 130 135 140
 5 Phe Gln Pro Gly Thr Asn Pro Pro Pro Phe Ser Gln Phe Leu Ala Arg
 145 150 155 160
 Arg Asn Glu Val Pro Leu Leu His Phe Tyr Thr Val Arg Pro Arg Arg
 165 170 175
 His Thr Arg Ser Ala Glu Asp Pro Pro Glu Arg Asp Pro Ile Asn Tyr
 180 185 190
 10 Leu Lys Pro Arg Pro Arg Ala Thr Pro Val Pro Val Ser Cys Ser Arg
 195 200 205
 Glu Leu Pro Ser Ala Glu Glu Gly Gly Pro Ala Ala Ser Asp Pro Leu
 210 215 220
 Gly Tyr Leu Arg Arg Gly Arg Gly Asp Ala Arg Gly Gly Ala Gly Gly
 225 230 235 240
 15 Ala Asp Arg Cys Arg Pro Phe Pro Arg Phe Val
 245 250
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 Arg His Thr Arg Ser
 1 5
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 25 <213> Homo sapiens

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Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly Ala Pro Ser Pro Leu Gln
 1 5 10 15

Pro Ala Thr Gly Asp Val Ala Ser Asp Ser Tyr Asn Asn Val Phe Arg
 20 25 30

5 Asp Thr Glu Ala Leu Arg Glu Leu Gly Val Thr His Tyr Arg Phe Ser
 35 40 45

Ile Ser Trp Ala Arg Val Leu Pro Asn Gly Ser Ala Gly Val Pro Asn
 50 55 60

Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu Leu Glu Arg Leu Arg Glu
 65 70 75 80

10 Leu Gly Val Gln Pro Val Val Thr Leu Tyr His Trp Asp Leu Pro Gln
 85 90 95

Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala Asn Arg Ala Leu Ala Asp
 100 105 110

His Phe Arg Asp Tyr Ala Glu Leu Cys Phe Arg His Phe Gly Gly Gln
 115 120 125

15 Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro Tyr Val Val Ala Trp His
 130 135 140

Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly Ile Arg Gly Ser Pro Arg
 145 150 155 160

Leu Gly Tyr Leu Val Ala His Asn Leu Leu Leu Ala His Ala Lys Val
 165 170 175

20 Trp His Leu Tyr Asn Thr Ser Phe Arg Pro Thr Gln Gly Gly Gln Val
 180 185 190

Ser Ile Ala Leu Ser Ser His Trp Ile Asn Pro Arg Arg Met Thr Asp
 195 200 205

His Ser Ile Lys Glu Cys Gln Lys Ser Leu Asp Phe Val Leu Gly Trp
 210 215 220

25

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

Val His His Ser Lys Arg Leu Ile Lys Val Asp Gly Val Val Thr Lys
 450 455 460
 Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala Ala Ile Gln Pro Gln Ile
 465 470 475 480
 5 Ala Leu Leu Gln Glu Met His Val Thr His Phe Arg Phe Ser Leu Asp
 485 490 495
 Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln Ser Gln Val Asn His Thr
 500 505 510
 Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser Glu Leu Val Arg Val Asn
 515 520 525
 10 Ile Thr Pro Val Val Ala Leu Trp Gln Pro Met Ala Pro Asn Gln Gly
 530 535 540
 Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala Trp Glu Asn Pro Tyr Thr
 545 550 555 560
 Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu Cys Phe Gly Glu Leu Gly
 565 570 575
 15 His His Val Lys Leu Trp Ile Thr Met Asn Glu Pro Tyr Thr Arg Asn
 580 585 590
 Met Thr Tyr Ser Ala Gly His Asn Leu Leu Lys Ala His Ala Leu Ala
 595 600 605
 Trp His Val Tyr Asn Glu Lys Phe Arg His Ala Gln Asn Gly Lys Ile
 610 615 620
 20 Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu Pro Ala Cys Pro Phe Ser
 625 630 635 640
 Gln Lys Asp Lys Glu Val Ala Glu Arg Val Leu Glu Phe Asp Ile Gly
 645 650 655
 Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp Val Met
 660 665 670

	Arg	Asp	Trp	Leu	Asn	Gln	Arg	Asn	Asn	Phe	Leu	Leu	Pro	Tyr	Phe	Thr
			675					680					685			
	Glu	Asp	Glu	Lys	Lys	Leu	Ile	Gln	Gly	Thr	Phe	Asp	Phe	Leu	Ala	Leu
		690					695					700				
5	Ser	His	Tyr	Thr	Thr	Ile	Leu	Val	Asp	Ser	Glu	Lys	Glu	Asp	Pro	Ile
	705					710					715					720
	Lys	Tyr	Asn	Asp	Tyr	Leu	Glu	Val	Gln	Glu	Met	Thr	Asp	Ile	Thr	Trp
					725					730					735	
	Leu	Asn	Ser	Pro	Ser	Gln	Val	Ala	Val	Val	Pro	Trp	Gly	Leu	Arg	Lys
				740					745					750		
10	Val	Leu	Asn	Trp	Leu	Lys	Phe	Lys	Tyr	Gly	Asp	Leu	Pro	Met	Tyr	Ile
			755					760					765			
	Ile	Ser	Asn	Gly	Ile	Asp	Asp	Gly	Leu	His	Ala	Glu	Asp	Asp	Gln	Leu
		770					775					780				
	Arg	Val	Tyr	Tyr	Met	Gln	Asn	Tyr	Ile	Asn	Glu	Ala	Leu	Lys	Ala	His
	785					790					795					800
15	Ile	Leu	Asp	Gly	Ile	Asn	Leu	Cys	Gly	Tyr	Phe	Ala	Tyr	Ser	Phe	Asn
					805					810					815	
	Asp	Arg	Thr	Ala	Pro	Arg	Phe	Gly	Leu	Tyr	Arg	Tyr	Ala	Ala	Asp	Gln
				820					825					830		
	Phe	Glu	Pro	Lys	Ala	Ser	Met	Lys	His	Tyr	Arg	Lys	Ile	Ile	Asp	Ser
			835					840					845			
20	Asn	Gly	Phe	Pro	Gly	Pro	Glu	Thr	Leu	Glu	Arg	Phe	Cys	Pro	Glu	Glu
		850					855					860				
	Phe	Thr	Val	Cys	Thr	Glu	Cys	Ser	Phe	Phe	His	Thr	Arg	Lys	Ser	Leu
	865					870					875					880
	Leu	Ala	Phe	Ile	Ala	Phe	Leu	Phe	Phe	Ala	Ser	Ile	Ile	Ser	Leu	Ser
					885					890					895	

Leu Ile Phe Tyr Tyr Ser Lys Lys Gly Arg Arg Ser Tyr Lys
 900 905 910

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn His
 20 25 30

10 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ile Ile Asn Pro Ile Ser Gly Ser Thr Ser Asn Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

15 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Ile Val Asp Ala Phe Asp Phe Trp Gly Gln Gly Thr Met
 100 105 110

Val Thr Val Ser Ser
 115

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<400> 17

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	Ala	Ile	Gln	Leu	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
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	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Ser	Ser	Ala
				20					25					30		
5	Leu	Val	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
			35					40					45			
	Tyr	Asp	Ala	Ser	Ser	Leu	Glu	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
		50					55					60				
	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
	65					70					75					80
10	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Phe	Asn	Asp	Tyr	Phe	Thr
					85					90					95	
	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys						
				100					105							

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