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FREISS, Gilles
VIGNON, Françoise
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<151> 2007-10-08

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Glu	Thr	Phe	Thr	Asp	Ser	Asn	Gln	Ser	Lys	Thr	Lys	Lys	Pro	Gly
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Ile	Ser	Asp	Val	Thr	Asp	Tyr	Ser	Asp	Arg	Gly	Asp	Ser	Asp	Met
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Asp	Glu	Ala	Thr	Tyr	Ser	Ser	Ser	Gln	Asp	His	Gln	Thr	Pro	Lys
	1325					1330					1335			
Gln	Glu	Ser	Ser	Ser	Ser	Val	Asn	Thr	Ser	Asn	Lys	Met	Asn	Phe
	1340					1345					1350			
Lys	Thr	Phe	Ser	Ser	Ser	Pro	Pro	Lys	Pro	Gly	Asp	Ile	Phe	Glu
	1355					1360					1365			
Val	Glu	Leu	Ala	Lys	Asn	Asp	Asn	Ser	Leu	Gly	Ile	Ser	Val	Thr
	1370					1375					1380			
Gly	Gly	Val	Asn	Thr	Ser	Val	Arg	His	Gly	Gly	Ile	Tyr	Val	Lys
	1385					1390					1395			
Ala	Val	Ile	Pro	Gln	Gly	Ala	Ala	Glu	Ser	Asp	Gly	Arg	Ile	His
	1400					1405					1410			
Lys	Gly	Asp	Arg	Val	Leu	Ala	Val	Asn	Gly	Val	Ser	Leu	Glu	Gly
	1415					1420					1425			
Ala	Thr	His	Lys	Gln	Ala	Val	Glu	Thr	Leu	Arg	Asn	Thr	Gly	Gln
	1430					1435					1440			
Val	Val	His	Leu	Leu	Leu	Glu	Lys	Gly	Gln	Ser	Pro	Thr	Ser	Lys
	1445					1450					1455			
Glu	His	Val	Pro	Val	Thr	Pro	Gln	Cys	Thr	Leu	Ser	Asp	Gln	Asn
	1460					1465					1470			
Ala	Gln	Gly	Gln	Gly	Pro	Glu	Lys	Val	Lys	Lys	Thr	Thr	Gln	Val
	1475					1480					1485			
Lys	Asp	Tyr	Ser	Phe	Val	Thr	Glu	Glu	Asn	Thr	Phe	Glu	Val	Lys
	1490					1495					1500			
Leu	Phe	Lys	Asn	Ser	Ser	Gly	Leu	Gly	Phe	Ser	Phe	Ser	Arg	Glu
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Asp	Asn	Leu	Ile	Pro	Glu	Gln	Ile	Asn	Ala	Ser	Ile	Val	Arg	Val
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Lys	Lys	Leu	Phe	Pro	Gly	Gln	Pro	Ala	Ala	Glu	Ser	Gly	Lys	Ile
	1535					1540					1545			
Asp	Val	Gly	Asp	Val	Ile	Leu	Lys	Val	Asn	Gly	Ala	Ser	Leu	Lys
	1550					1555					1560			

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Gly	Leu	Ser	Gln	Gln	Glu	Val	Ile	Ser	Ala	Leu	Arg	Gly	Thr	Ala
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	1580					1585					1590			
Pro	Glu	Ile	Asp	Thr	Ala	Leu	Leu	Thr	Pro	Leu	Gln	Ser	Pro	Ala
	1595					1600					1605			
Gln	Val	Leu	Pro	Asn	Ser	Ser	Lys	Asp	Ser	Ser	Gln	Pro	Ser	Cys
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Val	Glu	Gln	Ser	Thr	Ser	Ser	Asp	Glu	Asn	Glu	Met	Ser	Asp	Lys
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Ser	Lys	Lys	Gln	Cys	Lys	Ser	Pro	Ser	Arg	Arg	Asp	Ser	Tyr	Ser
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Asp	Ser	Ser	Gly	Ser	Gly	Glu	Asp	Asp	Leu	Val	Thr	Ala	Pro	Ala
	1655					1660					1665			
Asn	Ile	Ser	Asn	Ser	Thr	Trp	Ser	Ser	Ala	Leu	His	Gln	Thr	Leu
	1670					1675					1680			
Ser	Asn	Met	Val	Ser	Gln	Ala	Gln	Ser	His	His	Glu	Ala	Pro	Lys
	1685					1690					1695			
Ser	Gln	Glu	Asp	Thr	Ile	Cys	Thr	Met	Phe	Tyr	Tyr	Pro	Gln	Lys
	1700					1705					1710			
Ile	Pro	Asn	Lys	Pro	Glu	Phe	Glu	Asp	Ser	Asn	Pro	Ser	Pro	Leu
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Pro	Pro	Asp	Met	Ala	Pro	Gly	Gln	Ser	Tyr	Gln	Pro	Gln	Ser	Glu
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Ser	Glu	Pro	Thr	Arg	Gln	Glu	Asn	Trp	Thr	Pro	Leu	Lys	Asn	Asp
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Leu	Glu	Asn	His	Leu	Glu	Asp	Phe	Glu	Leu	Glu	Val	Glu	Leu	Leu
	1775					1780					1785			
Ile	Thr	Leu	Ile	Lys	Ser	Glu	Lys	Gly	Ser	Leu	Gly	Phe	Thr	Val
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Thr	Lys	Gly	Asn	Gln	Arg	Ile	Gly	Cys	Tyr	Val	His	Asp	Val	Ile
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Gln Asp 1820 Pro Ala Lys Ser Asp 1825 Gly Arg Leu Lys Pro 1830 Gly Asp Arg
 Leu Ile 1835 Lys Val Asn Asp Thr 1840 Asp Val Thr Asn Met 1845 Thr His Thr
 Asp Ala 1850 Val Asn Leu Leu Arg 1855 Ala Ala Ser Lys Thr 1860 Val Arg Leu
 Val Ile 1865 Gly Arg Val Leu Glu 1870 Leu Pro Arg Ile Pro 1875 Met Leu Pro
 His Leu 1880 Leu Pro Asp Ile Thr 1885 Leu Thr Cys Asn Lys 1890 Glu Glu Leu
 Gly Phe 1895 Ser Leu Cys Gly Gly 1900 His Asp Ser Leu Tyr 1905 Gln Val Val
 Tyr Ile 1910 Ser Asp Ile Asn Pro 1915 Arg Ser Val Ala Ala 1920 Ile Glu Gly
 Asn Leu 1925 Gln Leu Leu Asp Val 1930 Ile His Tyr Val Asn 1935 Gly Val Ser
 Thr Gln 1940 Gly Met Thr Leu Glu 1945 Glu Val Asn Arg Ala 1950 Leu Asp Met
 Ser Leu 1955 Pro Ser Leu Val Leu 1960 Lys Ala Thr Arg Asn 1965 Asp Leu Pro
 Val Val 1970 Pro Ser Ser Lys Arg 1975 Ser Ala Val Ser Ala 1980 Pro Lys Ser
 Thr Lys 1985 Gly Asn Gly Ser Tyr 1990 Ser Val Gly Ser Cys 1995 Ser Gln Pro
 Ala Leu 2000 Thr Pro Asn Asp Ser 2005 Phe Ser Thr Val Ala 2010 Gly Glu Glu
 Ile Asn 2015 Glu Ile Ser Tyr Pro 2020 Lys Gly Lys Cys Ser 2025 Thr Tyr Gln
 Ile Lys 2030 Gly Ser Pro Asn Leu 2035 Thr Leu Pro Lys Glu 2040 Ser Tyr Ile
 Gln Glu 2045 Asp Asp Ile Tyr Asp 2050 Asp Ser Gln Glu Ala 2055 Glu Val Ile
 Gln Ser 2060 Leu Leu Asp Val Val 2065 Asp Glu Glu Ala Gln 2070 Asn Leu Leu
 Asn Glu Asn Asn Ala Ala Gly Tyr Ser Cys Gly Pro Gly Thr Leu

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Cys	Asp	Gly	Ser	Pro	Leu	Pro	Glu	Tyr	Phe	Thr	Glu	Ala	Thr	Lys	
	2105					2110					2115				
Met	Asn	Gly	Cys	Glu	Glu	Tyr	Cys	Glu	Glu	Lys	Val	Lys	Ser	Glu	
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Ile	Thr	Trp	Gly	Asn	Asp	Glu	Leu	Pro	Ile	Glu	Arg	Thr	Asn	His	
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Glu	Asp	Ser	Asp	Lys	Asp	His	Ser	Phe	Leu	Thr	Asn	Asp	Glu	Leu	
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Ala	Val	Leu	Pro	Val	Val	Lys	Val	Leu	Pro	Ser	Gly	Lys	Tyr	Thr	
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Gly	Ala	Asn	Leu	Lys	Ser	Val	Ile	Arg	Val	Leu	Arg	Gly	Leu	Leu	
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Lys	Pro	Leu	Asp	Gln	Cys	Leu	Ile	Gly	Gln	Thr	Lys	Glu	Asn	Arg	
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Arg	Lys	Asn	Arg	Tyr	Lys	Asn	Ile	Leu	Pro	Tyr	Asp	Ala	Thr	Arg	
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Val	Pro	Leu	Gly	Asp	Glu	Gly	Gly	Tyr	Ile	Asn	Ala	Ser	Phe	Ile	
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Lys	Ile	Pro	Val	Gly	Lys	Glu	Glu	Phe	Val	Tyr	Ile	Ala	Cys	Gln	
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Gly	Pro	Leu	Pro	Thr	Thr	Val	Gly	Asp	Phe	Trp	Gln	Met	Ile	Trp	
	2285					2290					2295				
Glu	Gln	Lys	Ser	Thr	Val	Ile	Ala	Met	Met	Thr	Gln	Glu	Val	Glu	
	2300					2305					2310				
Gly	Glu	Lys	Ile	Lys	Cys	Gln	Arg	Tyr	Trp	Pro	Asn	Ile	Leu	Gly	
	2315					2320					2325				
Lys	Thr	Thr	Met	Val	Ser	Asn	Arg	Leu	Arg	Leu	Ala	Leu	Val	Arg	
	2330					2335					2340				

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Met Gln Gln Leu Lys Gly Phe Val Val Arg Ala Met Thr Leu Glu
2345 2350 2355

Asp Ile Gln Thr Arg Glu Val Arg His Ile Ser His Leu Asn Phe
2360 2365 2370

Thr Ala Trp Pro Asp His Asp Thr Pro Ser Gln Pro Asp Asp Leu
2375 2380 2385

Leu Thr Phe Ile Ser Tyr Met Arg His Ile His Arg Ser Gly Pro
2390 2395 2400

Ile Ile Thr His Cys Ser Ala Gly Ile Gly Arg Ser Gly Thr Leu
2405 2410 2415

Ile Cys Ile Asp Val Val Leu Gly Leu Ile Ser Gln Asp Leu Asp
2420 2425 2430

Phe Asp Ile Ser Asp Leu Val Arg Cys Met Arg Leu Gln Arg His
2435 2440 2445

Gly Met Val Gln Thr Glu Asp Gln Tyr Ile Phe Cys Tyr Gln Val
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Ile Leu Tyr Val Leu Thr Arg Leu Gln Ala Glu Glu Glu Gln Lys
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Gln Gln Pro Gln Leu Leu Lys
2480 2485

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<211> 2294
<212> PRT
<213> Homo sapiens
<400> 6

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Gln Glu Glu Glu Ile Trp Ala Val Leu Asn Gln Ser Ala Glu Ser Leu
20 25 30

Gln Glu Leu Phe Arg Lys Val Ser Leu Ala Asp Pro Ala Ala Leu Gly
35 40 45

Phe Ile Ile Ser Pro Trp Ser Leu Leu Leu Leu Pro Ser Gly Ser Val
50 55 60

Ser Phe Thr Asp Glu Asn Ile Ser Asn Gln Asp Leu Arg Ala Phe Thr
65 70 75 80

Ala Pro Glu Val Leu₈₅ Gln Asn Gln Ser Leu₉₀ Thr Ser Leu Ser Asp Val₉₅

Glu Lys Ile His₁₀₀ Ile Tyr Ser Leu Gly₁₀₅ Met Thr Leu Tyr Trp Gly Ala₁₁₀

Asp Tyr Glu₁₁₅ Val Pro Gln Ser Gln₁₂₀ Pro Ile Lys Leu Gly₁₂₅ Asp His Leu

Asn Ser₁₃₀ Ile Leu Leu Gly₁₃₅ Met Cys Glu Asp Val Ile₁₄₀ Tyr Ala Arg Val

Ser Val Arg Thr Val Leu₁₅₀ Asp Ala Cys Ser Ala₁₅₅ His Ile Arg Asn Ser₁₆₀

Asn Cys Ala Pro Ser₁₆₅ Phe Ser Tyr Val Lys₁₇₀ His Leu Val Lys Leu Val₁₇₅

Leu Gly Asn Leu₁₈₀ Ser Gly Thr Asp Gln₁₈₅ Leu Ser Cys Asn Ser₁₉₀ Glu Gln

Lys Pro Asp₁₉₅ Arg Ser Gln Ala Ile₂₀₀ Arg Asp Arg Leu Arg₂₀₅ Gly Lys Gly

Leu Pro₂₁₀ Thr Gly Arg Ser Ser₂₁₅ Thr Ser Asp Val Leu₂₂₀ Asp Ile Gln Lys

Pro Pro₂₂₅ Leu Ser His Gln₂₃₀ Thr Phe Leu Asn Lys₂₃₅ Gly Leu Ser Lys Ser₂₄₀

Met Gly Phe Leu Ser₂₄₅ Ile Lys Asp Thr Gln₂₅₀ Asp Glu Asn Tyr Phe Lys₂₅₅

Asp Ile Leu Ser₂₆₀ Asp Asn Ser Gly Arg₂₆₅ Glu Asp Ser Glu Asn Thr Phe₂₇₀

Ser Pro Tyr₂₇₅ Gln Phe Lys Thr Ser₂₈₀ Gly Pro Glu Lys Lys₂₈₅ Pro Ile Pro

Gly Ile Asp Val Leu Ser Lys₂₉₅ Lys Lys Ile Trp Ala Ser Ser Met Asp₃₀₀

Leu Leu Cys Thr Ala Asp₃₁₀ Arg Asp Phe Ser Ser₃₁₅ Gly Glu Thr Ala Thr₃₂₀

Tyr Arg Arg Cys His₃₂₅ Pro Glu Ala Val Thr₃₃₀ Val Arg Thr Ser Thr Thr₃₃₅

Pro Arg Lys Lys₃₄₀ Glu Ala Arg Tyr Ser₃₄₅ Asp Gly Ser Ile Ala Leu Asp₃₅₀

Ile Phe Gly Pro Gln Lys Met Asp Pro Ile Tyr His Thr Arg Glu Leu

355

360

365

Pro Thr Ser Ser Ala Ile Ser Ser Ala Leu Asp Arg Ile Arg Glu Arg
 370 375 380

Gln Lys Lys Leu Gln Val Leu Arg Glu Ala Met Asn Val Glu Glu Pro
 385 390 395 400

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

Glu Ser Pro Ser Ile Ile Ser Ser Glu Ser Asp Phe Arg Gln Val Arg
 420 425 430

Arg Ser Glu Ala Ser Lys Arg Phe Glu Ser Ser Ser Gly Leu Pro Gly
 435 440 445

Val Asp Glu Thr Leu Ser Gln Gly Gln Ser Gln Arg Pro Ser Arg Gln
 450 455 460

Tyr Glu Thr Pro Phe Glu Gly Asn Leu Ile Asn Gln Glu Ile Met Leu
 465 470 475 480

Lys Arg Gln Glu Glu Glu Leu Met Gln Leu Gln Ala Lys Met Ala Leu
 485 490 495

Arg Gln Ser Arg Leu Ser Leu Tyr Pro Gly Asp Thr Ile Lys Ala Ser
 500 505 510

Met Leu Asp Ile Thr Arg Asp Pro Leu Arg Glu Ile Ala Leu Glu Thr
 515 520 525

Ala Met Thr Gln Arg Lys Leu Arg Asn Phe Phe Gly Pro Glu Phe Val
 530 535 540

Lys Met Thr Ile Glu Pro Phe Ile Ser Leu Asp Leu Pro Arg Ser Ile
 545 550 555 560

Leu Thr Lys Lys Gly Lys Asn Glu Asp Asn Arg Arg Lys Val Asn Ile
 565 570 575

Met Leu Leu Asn Gly Gln Arg Leu Glu Leu Thr Cys Asp Thr Lys Thr
 580 585 590

Ile Cys Lys Asp Val Phe Asp Met Val Val Ala His Ile Gly Leu Val
 595 600 605

Glu His His Leu Phe Ala Leu Ala Thr Leu Lys Asp Asn Glu Tyr Phe
 610 615 620

Phe Val Asp Pro Asp Leu Lys Leu Thr Lys Val Ala Pro Glu Gly Trp
 625 630 635 640

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Lys Glu Glu Pro Lys₆₄₅ Lys Lys Thr Lys Ala₆₅₀ Thr Val Asn Phe Thr₆₅₅ Leu
 Phe Phe Arg Ile₆₆₀ Lys Phe Phe Met Asp₆₆₅ Asp Val Ser Leu Ile₆₇₀ Gln His
 Thr Leu Thr₆₇₅ Cys His Gln Tyr Tyr₆₈₀ Leu Gln Leu Arg Lys₆₈₅ Asp Ile Leu
 Glu Glu₆₉₀ Arg Met His Cys Asp₆₉₅ Asp Glu Thr Ser Leu₇₀₀ Leu Leu Ala Ser
 Leu₇₀₅ Ala Leu Gln Ala Glu₇₁₀ Tyr Gly Asp Tyr Gln₇₁₅ Pro Glu Val His Gly₇₂₀
 Val Ser Tyr Phe Arg₇₂₅ Met Glu His Tyr Leu₇₃₀ Pro Ala Arg Val₇₃₅ Met Glu
 Lys Leu Asp Leu₇₄₀ Ser Tyr Ile Lys Glu₇₄₅ Glu Leu Pro Lys Leu₇₅₀ His Asn
 Thr Tyr Val₇₅₅ Gly Ala Ser Glu Lys₇₆₀ Glu Thr Glu Leu Glu₇₆₅ Phe Leu Lys
 Val Cys₇₇₀ Gln Arg Leu Thr Glu₇₇₅ Tyr Gly Val His Phe₇₈₀ His Arg Val His
 Pro₇₈₅ Glu Lys Lys Ser Gln₇₉₀ Thr Gly Ile Leu Leu₇₉₅ Gly Val Cys Ser Lys₈₀₀
 Gly Val Leu Val Phe₈₀₅ Glu Val His Asn Gly₈₁₀ Val Arg Thr Leu Val₈₁₅ Leu
 Arg Phe Pro Trp₈₂₀ Arg Glu Thr Lys Lys₈₂₅ Ile Ser Phe Ser Lys₈₃₀ Lys Lys
 Ile Thr Leu₈₃₅ Gln Asn Thr Ser Asp₈₄₀ Gly Ile Lys His Gly₈₄₅ Phe Gln Thr
 Asp Asn₈₅₀ Ser Lys Ile Cys Gln₈₅₅ Tyr Leu Leu His Leu₈₆₀ Cys Ser Tyr Gln
 His₈₆₅ Lys Phe Gln Leu Gln₈₇₀ Met Arg Ala Arg Gln₈₇₅ Ser Asn Gln Asp Ala₈₈₀
 Gln Asp Ile Asp Val₈₈₅ Leu His Lys Arg Trp₈₉₀ Ser Ile Val Ser Ser₈₉₅ Pro
 Glu Arg Glu Ile₉₀₀ Thr Leu Val Asn Leu₉₀₅ Lys Lys Asp Ala Lys₉₁₀ Tyr Gly

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Leu Gly Phe Gln Ile Ile Gly Gly Glu Lys Met Gly Arg Leu Asp Leu
 915 920 925

Gly Ile Phe Ile Ser Ser Val Ala Pro Gly Gly Pro Ala Asp Leu Asp
 930 935 940

Gly Cys Leu Lys Pro Gly Asp Arg Leu Ile Ser Val Asn Ser Val Ser
 945 950 955 960

Leu Glu Gly Val Ser His His Ala Ala Ile Glu Ile Leu Gln Asn Ala
 965 970 975

Pro Glu Asp Val Thr Leu Val Ile Ser Gln Pro Lys Glu Lys Ile Ser
 980 985 990

Lys Val Pro Ser Thr Pro Val His Leu Thr Asn Glu Met Lys Asn Tyr
 995 1000 1005

Met Lys Lys Ser Ser Tyr Met Gln Asp Ser Ala Ile Asp Ser Ser
 1010 1015 1020

Ser Lys Asp His His Trp Ser Arg Gly Thr Leu Arg His Ile Ser
 1025 1030 1035

Glu Asn Ser Phe Gly Pro Ser Gly Gly Leu Arg Glu Gly Ser Leu
 1040 1045 1050

Ser Ser Gln Asp Ser Arg Thr Glu Ser Ala Ser Leu Ser Gln Ser
 1055 1060 1065

Gln Val Asn Gly Phe Phe Ala Ser His Leu Gly Asp Gln Thr Trp
 1070 1075 1080

Gln Glu Ser Gln His Gly Ser Pro Ser Pro Ser Val Ile Ser Lys
 1085 1090 1095

Ala Thr Glu Lys Glu Thr Phe Thr Asp Ser Asn Gln Ser Lys Thr
 1100 1105 1110

Lys Lys Pro Gly Ile Ser Asp Val Thr Asp Tyr Ser Asp Arg Gly
 1115 1120 1125

Asp Ser Asp Met Asp Glu Ala Thr Tyr Ser Ser Ser Gln Asp His
 1130 1135 1140

Gln Thr Pro Lys Gln Glu Ser Ser Ser Ser Val Asn Thr Ser Asn
 1145 1150 1155

Lys Met Asn Phe Lys Thr Phe Ser Ser Ser Pro Pro Lys Pro Gly
 1160 1165 1170

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Asp Ile Phe Glu Val Glu Leu Ala Lys Asn Asp Asn Ser Leu Gly
 1175 1180 1185
 Ile Ser Val Thr Gly Gly Val Asn Thr Ser Val Arg His Gly Gly
 1190 1195 1200
 Ile Tyr Val Lys Ala Val Ile Pro Gln Gly Ala Ala Glu Ser Asp
 1205 1210 1215
 Gly Arg Ile His Lys Gly Asp Arg Val Leu Ala Val Asn Gly Val
 1220 1225 1230
 Ser Leu Glu Gly Ala Thr His Lys Gln Ala Val Glu Thr Leu Arg
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 Asn Thr Gly Gln Val Val His Leu Leu Leu Glu Lys Gly Gln Ser
 1250 1255 1260
 Pro Thr Ser Lys Glu His Val Pro Val Thr Pro Gln Cys Thr Leu
 1265 1270 1275
 Ser Asp Gln Asn Ala Gln Gly Gln Gly Pro Glu Lys Val Lys Lys
 1280 1285 1290
 Thr Thr Gln Val Lys Asp Tyr Ser Phe Val Thr Glu Glu Asn Thr
 1295 1300 1305
 Phe Glu Val Lys Leu Phe Lys Asn Ser Ser Gly Leu Gly Phe Ser
 1310 1315 1320
 Phe Ser Arg Glu Asp Asn Leu Ile Pro Glu Gln Ile Asn Ala Ser
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 Ile Val Arg Val Lys Lys Leu Phe Pro Gly Gln Pro Ala Ala Glu
 1340 1345 1350
 Ser Gly Lys Ile Asp Val Gly Asp Val Ile Leu Lys Val Asn Gly
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 Ala Ser Leu Lys Gly Leu Ser Gln Gln Glu Val Ile Ser Ala Leu
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 Arg Gly Thr Ala Pro Glu Val Phe Leu Leu Leu Cys Arg Pro Pro
 1385 1390 1395
 Pro Gly Val Leu Pro Glu Ile Asp Thr Ala Leu Leu Thr Pro Leu
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 Gln Ser Pro Ala Gln Val Leu Pro Asn Ser Ser Lys Asp Ser Ser
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 Gln Pro Ser Cys Val Glu Gln Ser Thr Ser Ser Asp Glu Asn Glu

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Asp	Ser	Tyr	Ser	Asp	Ser	Ser	Gly	Ser	Gly	Glu	Asp	Asp	Leu	Val	
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Thr	Ala	Pro	Ala	Asn	Ile	Ser	Asn	Ser	Thr	Trp	Ser	Ser	Ala	Leu	
1475						1480					1485				
His	Gln	Thr	Leu	Ser	Asn	Met	Val	Ser	Gln	Ala	Gln	Ser	His	His	
1490						1495					1500				
Glu	Ala	Pro	Lys	Ser	Gln	Glu	Asp	Thr	Ile	Cys	Thr	Met	Phe	Tyr	
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Tyr	Pro	Gln	Lys	Ile	Pro	Asn	Lys	Pro	Glu	Phe	Glu	Asp	Ser	Asn	
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Pro	Ser	Pro	Leu	Pro	Pro	Asp	Met	Ala	Pro	Gly	Gln	Ser	Tyr	Gln	
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Pro	Gln	Ser	Glu	Ser	Ala	Ser	Ser	Ser	Ser	Met	Asp	Lys	Tyr	His	
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Ile	His	His	Ile	Ser	Glu	Pro	Thr	Arg	Gln	Glu	Asn	Trp	Thr	Pro	
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Leu	Lys	Asn	Asp	Leu	Glu	Asn	His	Leu	Glu	Asp	Phe	Glu	Leu	Glu	
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Val	Glu	Leu	Leu	Ile	Thr	Leu	Ile	Lys	Ser	Glu	Lys	Gly	Ser	Leu	
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Gly	Phe	Thr	Val	Thr	Lys	Gly	Asn	Gln	Arg	Ile	Gly	Cys	Tyr	Val	
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His	Asp	Val	Ile	Gln	Asp	Pro	Ala	Lys	Ser	Asp	Gly	Arg	Leu	Lys	
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Pro	Gly	Asp	Arg	Leu	Ile	Lys	Val	Asn	Asp	Thr	Asp	Val	Thr	Asn	
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Met	Thr	His	Thr	Asp	Ala	Val	Asn	Leu	Leu	Arg	Ala	Ala	Ser	Lys	
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Thr	Val	Arg	Leu	Val	Ile	Gly	Arg	Val	Leu	Glu	Leu	Pro	Arg	Ile	
1670						1675					1680				
Pro	Met	Leu	Pro	His	Leu	Leu	Pro	Asp	Ile	Thr	Leu	Thr	Cys	Asn	
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Ala	Ile	Glu	Gly	Asn	Leu	Gln	Leu	Leu	Asp	Val	Ile	His	Tyr	Val
	1730					1735					1740			
Asn	Gly	Val	Ser	Thr	Gln	Gly	Met	Thr	Leu	Glu	Glu	Val	Asn	Arg
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Ala	Leu	Asp	Met	Ser	Leu	Pro	Ser	Leu	Val	Leu	Lys	Ala	Thr	Arg
	1760					1765					1770			
Asn	Asp	Leu	Pro	Val	Val	Pro	Ser	Ser	Lys	Arg	Ser	Ala	Val	Ser
	1775					1780					1785			
Ala	Pro	Lys	Ser	Thr	Lys	Gly	Asn	Gly	Ser	Tyr	Ser	Val	Gly	Ser
	1790					1795					1800			
Cys	Ser	Gln	Pro	Ala	Leu	Thr	Pro	Asn	Asp	Ser	Phe	Ser	Thr	Val
	1805					1810					1815			
Ala	Gly	Glu	Glu	Ile	Asn	Glu	Ile	Ser	Tyr	Pro	Lys	Gly	Lys	Cys
	1820					1825					1830			
Ser	Thr	Tyr	Gln	Ile	Lys	Gly	Ser	Pro	Asn	Leu	Thr	Leu	Pro	Lys
	1835					1840					1845			
Glu	Ser	Tyr	Ile	Gln	Glu	Asp	Asp	Ile	Tyr	Asp	Asp	Ser	Gln	Glu
	1850					1855					1860			
Ala	Glu	Val	Ile	Gln	Ser	Leu	Leu	Asp	Val	Val	Asp	Glu	Glu	Ala
	1865					1870					1875			
Gln	Asn	Leu	Leu	Asn	Glu	Asn	Asn	Ala	Ala	Gly	Tyr	Ser	Cys	Gly
	1880					1885					1890			
Pro	Gly	Thr	Leu	Lys	Met	Asn	Gly	Lys	Leu	Ser	Glu	Glu	Arg	Thr
	1895					1900					1905			
Glu	Asp	Thr	Asp	Cys	Asp	Gly	Ser	Pro	Leu	Pro	Glu	Tyr	Phe	Thr
	1910					1915					1920			
Glu	Ala	Thr	Lys	Met	Asn	Gly	Cys	Glu	Glu	Tyr	Cys	Glu	Glu	Lys
	1925					1930					1935			
Val	Lys	Ser	Glu	Ser	Leu	Ile	Gln	Lys	Pro	Gln	Glu	Lys	Lys	Thr
	1940					1945					1950			

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Asp	Asp 1955	Asp	Glu	Ile	Thr	Trp 1960	Gly	Asn	Asp	Glu	Leu 1965	Pro	Ile	Glu
Arg	Thr 1970	Asn	His	Glu	Asp	Ser 1975	Asp	Lys	Asp	His	Ser 1980	Phe	Leu	Thr
Asn	Asp 1985	Glu	Leu	Ala	Val	Leu 1990	Pro	Val	Val	Lys	Val 1995	Leu	Pro	Ser
Gly	Lys 2000	Tyr	Thr	Gly	Ala	Asn 2005	Leu	Lys	Ser	Val	Ile 2010	Arg	Val	Leu
Arg	Gly 2015	Leu	Leu	Asp	Gln	Gly 2020	Ile	Pro	Ser	Lys	Glu 2025	Leu	Glu	Asn
Leu	Gln 2030	Glu	Leu	Lys	Pro	Leu 2035	Asp	Gln	Cys	Leu	Ile 2040	Gly	Gln	Thr
Lys	Glu 2045	Asn	Arg	Arg	Lys	Asn 2050	Arg	Tyr	Lys	Asn	Ile 2055	Leu	Pro	Tyr
Asp	Ala 2060	Thr	Arg	Val	Pro	Leu 2065	Gly	Asp	Glu	Gly	Gly 2070	Tyr	Ile	Asn
Ala	Ser 2075	Phe	Ile	Lys	Ile	Pro 2080	Val	Gly	Lys	Glu	Glu 2085	Phe	Val	Tyr
Ile	Ala 2090	Cys	Gln	Gly	Pro	Leu 2095	Pro	Thr	Thr	Val	Gly 2100	Asp	Phe	Trp
Gln	Met 2105	Ile	Trp	Glu	Gln	Lys 2110	Ser	Thr	Val	Ile	Ala 2115	Met	Met	Thr
Gln	Glu 2120	Val	Glu	Gly	Glu	Lys 2125	Ile	Lys	Cys	Gln	Arg 2130	Tyr	Trp	Pro
Asn	Ile 2135	Leu	Gly	Lys	Thr	Thr 2140	Met	Val	Ser	Asn	Arg 2145	Leu	Arg	Leu
Ala	Leu 2150	Val	Arg	Met	Gln	Gln 2155	Leu	Lys	Gly	Phe	Val 2160	Val	Arg	Ala
Met	Thr 2165	Leu	Glu	Asp	Ile	Gln 2170	Thr	Arg	Glu	Val	Arg 2175	His	Ile	Ser
His	Leu 2180	Asn	Phe	Thr	Ala	Trp 2185	Pro	Asp	His	Asp	Thr 2190	Pro	Ser	Gln
Pro	Asp 2195	Asp	Leu	Leu	Thr	Phe 2200	Ile	Ser	Tyr	Met	Arg 2205	His	Ile	His

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Arg Ser Gly Pro Ile Ile Thr His Cys Ser Ala Gly Ile Gly Arg
 2210 2215 2220

Ser Gly Thr Leu Ile Cys Ile Asp Val Val Leu Gly Leu Ile Ser
 2225 2230 2235

Gln Asp Leu Asp Phe Asp Ile Ser Asp Leu Val Arg Cys Met Arg
 2240 2245 2250

Leu Gln Arg His Gly Met Val Gln Thr Glu Asp Gln Tyr Ile Phe
 2255 2260 2265

Cys Tyr Gln Val Ile Leu Tyr Val Leu Thr Arg Leu Gln Ala Glu
 2270 2275 2280

Glu Glu Gln Lys Gln Gln Pro Gln Leu Leu Lys
 2285 2290

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 <212> PRT
 <213> Homo sapiens
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Met His Val Ser Leu Ala Glu Ala Leu Glu Val Arg Gly Gly Pro Leu
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 20 25 30

Gln Glu Leu Phe Arg Lys Val Ser Leu Ala Asp Pro Ala Ala Leu Gly
 35 40 45

Phe Ile Ile Ser Pro Trp Ser Leu Leu Leu Leu Pro Ser Gly Ser Val
 50 55 60

Ser Phe Thr Asp Glu Asn Ile Ser Asn Gln Asp Leu Arg Ala Phe Thr
 65 70 75 80

Ala Pro Glu Val Leu Gln Asn Gln Ser Leu Thr Ser Leu Ser Asp Val
 85 90 95

Glu Lys Ile His Ile Tyr Ser Leu Gly Met Thr Leu Tyr Trp Gly Ala
 100 105 110

Asp Tyr Glu Val Pro Gln Ser Gln Pro Ile Lys Leu Gly Asp His Leu
 115 120 125

Asn Ser Ile Leu Leu Gly Met Cys Glu Asp Val Ile Tyr Ala Arg Val
 130 135 140

Ser Val Arg Thr Val Leu Asp Ala Cys Ser Ala His Ile Arg Asn Ser
 145 150 155 160

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Asn Cys Ala Pro Ser₁₆₅ Phe Ser Tyr Val Lys₁₇₀ His Leu Val Lys₁₇₅ Leu Val
 Leu Gly Asn₁₈₀ Ser Gly Thr Asp Gln₁₈₅ Leu Ser Cys Asn₁₉₀ Ser Glu Gln
 Lys Pro Asp₁₉₅ Arg Ser Gln Ala Ile₂₀₀ Arg Asp Arg Leu Arg₂₀₅ Gly Lys Gly
 Leu Pro₂₁₀ Thr Gly Arg Ser Ser₂₁₅ Thr Ser Asp Val Leu₂₂₀ Asp Ile Gln Lys
 Pro₂₂₅ Pro Leu Ser His Gln₂₃₀ Thr Phe Leu Asn Lys₂₃₅ Gly Leu Ser Lys₂₄₀ Ser
 Met Gly Phe Leu Ser₂₄₅ Ile Lys Asp Thr Gln₂₅₀ Asp Glu Asn Tyr Phe₂₅₅ Lys
 Asp Ile Leu Ser₂₆₀ Asp Asn Ser Gly Arg₂₆₅ Glu Asp Ser Glu Asn₂₇₀ Thr Phe
 Ser Pro Tyr₂₇₅ Gln Phe Lys Thr Ser₂₈₀ Gly Pro Glu Lys Lys₂₈₅ Pro Ile Pro
 Gly Ile₂₉₀ Asp Val Leu Ser Lys₂₉₅ Lys Lys Ile Trp Ala₃₀₀ Ser Ser Met Asp
 Leu₃₀₅ Leu Cys Thr Ala Asp₃₁₀ Arg Asp Phe Ser Ser₃₁₅ Gly Glu Thr Ala Thr₃₂₀
 Tyr Arg Arg Cys His₃₂₅ Pro Glu Ala Val Thr₃₃₀ Val Arg Thr Ser Thr₃₃₅ Thr
 Pro Arg Lys Lys₃₄₀ Glu Ala Arg Tyr Ser₃₄₅ Asp Gly Ser Ile Ala₃₅₀ Leu Asp
 Ile Phe Gly₃₅₅ Pro Gln Lys Met Asp₃₆₀ Pro Ile Tyr His Thr₃₆₅ Arg Glu Leu
 Pro Thr₃₇₀ Ser Ser Ala Ile Ser₃₇₅ Ser Ala Leu Asp Arg₃₈₀ Ile Arg Glu Arg
 Gln₃₈₅ Lys Lys Leu Gln Val₃₉₀ Leu Arg Glu Ala Met₃₉₅ Asn Val Glu Glu Pro₄₀₀
 Val Arg Arg Tyr Lys₄₀₅ Thr Tyr His Gly Asp₄₁₀ Val Phe Ser Thr Ser₄₁₅ Ser
 Glu Ser Pro Ser₄₂₀ Ile Ile Ser Ser Glu₄₂₅ Ser Asp Phe Arg Gln₄₃₀ Val Arg

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Arg Ser Glu Ala Ser Lys Arg Phe Glu Ser Ser Ser Gly Leu Pro Gly
435 440 445

Val Asp Glu Thr Leu Ser Gln Gly Gln Ser Gln Arg Pro Ser Arg Gln
450 455 460

Tyr Glu Thr Pro Phe Glu Gly Asn Leu Ile Asn Gln Glu Ile Met Leu
465 470 475 480

Lys Arg Gln Glu Glu Glu Leu Met Gln Leu Gln Ala Lys Met Ala Leu
485 490 495

Arg Gln Ser Arg Leu Ser Leu Tyr Pro Gly Asp Thr Ile Lys Ala Ser
500 505 510

Met Leu Asp Ile Thr Arg Asp Pro Leu Arg Glu Ile Ala Leu Glu Thr
515 520 525

Ala Met Thr Gln Arg Lys Leu Arg Asn Phe Phe Gly Pro Glu Phe Val
530 535 540

Lys Met Thr Ile Glu Pro Phe Ile Ser Leu Asp Leu Pro Arg Ser Ile
545 550 555 560

Leu Thr Lys Lys Gly Lys Asn Glu Asp Asn Arg Arg Lys Val Asn Ile
565 570 575

Met Leu Leu Asn Gly Gln Arg Leu Glu Leu Thr Cys Asp Thr Lys Thr
580 585 590

Ile Cys Lys Asp Val Phe Asp Met Val Val Ala His Ile Gly Leu Val
595 600 605

Glu His His Leu Phe Ala Leu Ala Thr Leu Lys Asp Asn Glu Tyr Phe
610 615 620

Phe Val Asp Pro Asp Leu Lys Leu Thr Lys Val Ala Pro Glu Gly Trp
625 630 635 640

Lys Glu Glu Pro Lys Lys Lys Thr Lys Ala Thr Val Asn Phe Thr Leu
645 650 655

Phe Phe Arg Ile Lys Phe Phe Met Asp Asp Val Ser Leu Ile Gln His
660 665 670

Thr Leu Thr Cys His Gln Tyr Tyr Leu Gln Leu Arg Lys Asp Ile Leu
675 680 685

Glu Glu Arg Met His Cys Asp Asp Glu Thr Ser Leu Leu Leu Ala Ser
690 695 700

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Leu Ala Leu Gln Ala Glu Tyr Gly Asp Tyr Gln Pro Glu Val His Gly
705 710 715 720

Val Ser Tyr Phe Arg Met Glu His Tyr Leu Pro Ala Arg Val Met Glu
725 730 735

Lys Leu Asp Leu Ser Tyr Ile Lys Glu Glu Leu Pro Lys Leu His Asn
740 745 750

Thr Tyr Val Gly Ala Ser Glu Lys Glu Thr Glu Leu Glu Phe Leu Lys
755 760 765

Val Cys Gln Arg Leu Thr Glu Tyr Gly Val His Phe His Arg Val His
770 775 780

Pro Glu Lys Lys Ser Gln Thr Gly Ile Leu Leu Gly Val Cys Ser Lys
785 790 795 800

Gly Val Leu Val Phe Glu Val His Asn Gly Val Arg Thr Leu Val Leu
805 810 815

Arg Phe Pro Trp Arg Glu Thr Lys Lys Ile Ser Phe Ser Lys Lys Lys
820 825 830

Ile Thr Leu Gln Asn Thr Ser Asp Gly Ile Lys His Gly Phe Gln Thr
835 840 845

Asp Asn Ser Lys Ile Cys Gln Tyr Leu Leu His Leu Cys Ser Tyr Gln
850 855 860

His Lys Phe Gln Leu Gln Met Arg Ala Arg Gln Ser Asn Gln Asp Ala
865 870 875 880

Gln Asp Ile Glu Arg Ala Ser Phe Arg Ser Leu Asn Leu Gln Ala Glu
885 890 895

Ser Val Arg Gly Phe Asn Met Gly Arg Ala Ile Ser Thr Gly Ser Leu
900 905 910

Ala Ser Ser Thr Leu Asn Lys Leu Ala Val Arg Pro Leu Ser Val Gln
915 920 925

Ala Glu Ile Leu Lys Arg Leu Ser Cys Ser Glu Leu Ser Leu Tyr Gln
930 935 940

Pro Leu Gln Asn Ser Ser Lys Glu Lys Asn Asp Lys Ala Ser Trp Glu
945 950 955 960

Glu Lys Pro Arg Glu Met Ser Lys Ser Tyr His Asp Leu Ser Gln Ala
965 970 975

Ser Leu Tyr Pro His Arg Lys Asn Val Ile Val Asn Met Glu Pro Pro

Pro Gln Thr Val Ala Glu Leu Val Gly Lys Pro Ser His Gln Met Ser
 995 1000 1005

Arg Ser Asp Ala Glu Ser Leu Ala Gly Val Thr Lys Leu Asn Asn
 1010 1015 1020

Ser Lys Ser Val Ala Ser Leu Asn Arg Ser Pro Glu Arg Arg Lys
 1025 1030 1035

His Glu Ser Asp Ser Ser Ser Ile Glu Asp Pro Gly Gln Ala Tyr
 1040 1045 1050

Val Leu Gly Met Thr Met His Ser Ser Gly Asn Ser Ser Ser Gln
 1055 1060 1065

Val Pro Leu Lys Glu Asn Asp Val Leu His Lys Arg Trp Ser Ile
 1070 1075 1080

Val Ser Ser Pro Glu Arg Glu Ile Thr Leu Val Asn Leu Lys Lys
 1085 1090 1095

Asp Ala Lys Tyr Gly Leu Gly Phe Gln Ile Ile Gly Gly Glu Lys
 1100 1105 1110

Met Gly Arg Leu Asp Leu Gly Ile Phe Ile Ser Ser Val Ala Pro
 1115 1120 1125

Gly Gly Pro Ala Asp Leu Asp Gly Cys Leu Lys Pro Gly Asp Arg
 1130 1135 1140

Leu Ile Ser Val Asn Ser Val Ser Leu Glu Gly Val Ser His His
 1145 1150 1155

Ala Ala Ile Glu Ile Leu Gln Asn Ala Pro Glu Asp Val Thr Leu
 1160 1165 1170

Val Ile Ser Gln Pro Lys Glu Lys Ile Ser Lys Val Pro Ser Thr
 1175 1180 1185

Pro Val His Leu Thr Asn Glu Met Lys Asn Tyr Met Lys Lys Ser
 1190 1195 1200

Ser Tyr Met Gln Asp Ser Ala Ile Asp Ser Ser Ser Lys Asp His
 1205 1210 1215

His Trp Ser Arg Gly Thr Leu Arg His Ile Ser Glu Asn Ser Phe
 1220 1225 1230

Gly Pro Ser Gly Gly Leu Arg Glu Gly Ser Leu Ser Ser Gln Asp
 1235 1240 1245

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Ser	Arg 1250	Thr	Glu	Ser	Ala	Ser 1255	Leu	Ser	Gln	Ser	Gln 1260	Val	Asn	Gly
Phe	Phe 1265	Ala	Ser	His	Leu	Gly 1270	Asp	Gln	Thr	Trp	Gln 1275	Glu	Ser	Gln
His	Gly 1280	Ser	Pro	Ser	Pro	Ser 1285	Val	Ile	Ser	Lys	Ala 1290	Thr	Glu	Lys
Glu	Thr 1295	Phe	Thr	Asp	Ser	Asn 1300	Gln	Ser	Lys	Thr	Lys 1305	Lys	Pro	Gly
Ile	Ser 1310	Asp	Val	Thr	Asp	Tyr 1315	Ser	Asp	Arg	Gly	Asp 1320	Ser	Asp	Met
Asp	Glu 1325	Ala	Thr	Tyr	Ser	Ser 1330	Ser	Gln	Asp	His	Gln 1335	Thr	Pro	Lys
Gln	Glu 1340	Ser	Ser	Ser	Ser	Val 1345	Asn	Thr	Ser	Asn	Lys 1350	Met	Asn	Phe
Lys	Thr 1355	Phe	Ser	Ser	Ser	Pro 1360	Pro	Lys	Pro	Gly	Asp 1365	Ile	Phe	Glu
Val	Glu 1370	Leu	Ala	Lys	Asn	Asp 1375	Asn	Ser	Leu	Gly	Ile 1380	Ser	Val	Thr
Val	Leu 1385	Phe	Asp	Lys	Gly	Gly 1390	Val	Asn	Thr	Ser	Val 1395	Arg	His	Gly
Gly	Ile 1400	Tyr	Val	Lys	Ala	Val 1405	Ile	Pro	Gln	Gly	Ala 1410	Ala	Glu	Ser
Asp	Gly 1415	Arg	Ile	His	Lys	Gly 1420	Asp	Arg	Val	Leu	Ala 1425	Val	Asn	Gly
Val	Ser 1430	Leu	Glu	Gly	Ala	Thr 1435	His	Lys	Gln	Ala	Val 1440	Glu	Thr	Leu
Arg	Asn 1445	Thr	Gly	Gln	Val	Val 1450	His	Leu	Leu	Leu	Glu 1455	Lys	Gly	Gln
Ser	Pro 1460	Thr	Ser	Lys	Glu	His 1465	Val	Pro	Val	Thr	Pro 1470	Gln	Cys	Thr
Leu	Ser 1475	Asp	Gln	Asn	Ala	Gln 1480	Gly	Gln	Gly	Pro	Glu 1485	Lys	Val	Lys
Lys	Thr 1490	Thr	Gln	Val	Lys	Asp 1495	Tyr	Ser	Phe	Val	Thr 1500	Glu	Glu	Asn

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Thr	Phe 1505	Glu	Val	Lys	Leu	Phe 1510	Lys	Asn	Ser	Ser	Gly 1515	Leu	Gly	Phe
Ser	Phe 1520	Ser	Arg	Glu	Asp	Asn 1525	Leu	Ile	Pro	Glu	Gln 1530	Ile	Asn	Ala
Ser	Ile 1535	Val	Arg	Val	Lys	Lys 1540	Leu	Phe	Pro	Gly	Gln 1545	Pro	Ala	Ala
Glu	Ser 1550	Gly	Lys	Ile	Asp	Val 1555	Gly	Asp	Val	Ile	Leu 1560	Lys	Val	Asn
Gly	Ala 1565	Ser	Leu	Lys	Gly	Leu 1570	Ser	Gln	Gln	Glu	Val 1575	Ile	Ser	Ala
Leu	Arg 1580	Gly	Thr	Ala	Pro	Glu 1585	Val	Phe	Leu	Leu	Leu 1590	Cys	Arg	Pro
Pro	Pro 1595	Gly	Val	Leu	Pro	Glu 1600	Ile	Asp	Thr	Ala	Leu 1605	Leu	Thr	Pro
Leu	Gln 1610	Ser	Pro	Ala	Gln	Val 1615	Leu	Pro	Asn	Ser	Ser 1620	Lys	Asp	Ser
Ser	Gln 1625	Pro	Ser	Cys	Val	Glu 1630	Gln	Ser	Thr	Ser	Ser 1635	Asp	Glu	Asn
Glu	Met 1640	Ser	Asp	Lys	Ser	Lys 1645	Lys	Gln	Cys	Lys	Ser 1650	Pro	Ser	Arg
Arg	Asp 1655	Ser	Tyr	Ser	Asp	Ser 1660	Ser	Gly	Ser	Gly	Glu 1665	Asp	Asp	Leu
Val	Thr 1670	Ala	Pro	Ala	Asn	Ile 1675	Ser	Asn	Ser	Thr	Trp 1680	Ser	Ser	Ala
Leu	His 1685	Gln	Thr	Leu	Ser	Asn 1690	Met	Val	Ser	Gln	Ala 1695	Gln	Ser	His
His	Glu 1700	Ala	Pro	Lys	Ser	Gln 1705	Glu	Asp	Thr	Ile	Cys 1710	Thr	Met	Phe
Tyr	Tyr 1715	Pro	Gln	Lys	Ile	Pro 1720	Asn	Lys	Pro	Glu	Phe 1725	Glu	Asp	Ser
Asn	Pro 1730	Ser	Pro	Leu	Pro	Pro 1735	Asp	Met	Ala	Pro	Gly 1740	Gln	Ser	Tyr
Gln	Pro 1745	Gln	Ser	Glu	Ser	Ala 1750	Ser	Ser	Ser	Ser	Met 1755	Asp	Lys	Tyr

His Ile 1760 His His Ile Ser Glu 1765 Pro Thr Arg Gln Glu 1770 Asn Trp Thr
 Pro Leu 1775 Lys Asn Asp Leu Glu 1780 Asn His Leu Glu Asp 1785 Phe Glu Leu
 Glu Val 1790 Glu Leu Leu Ile Thr 1795 Leu Ile Lys Ser Glu 1800 Lys Gly Ser
 Leu Gly 1805 Phe Thr Val Thr Lys 1810 Gly Asn Gln Arg Ile 1815 Gly Cys Tyr
 Val His 1820 Asp Val Ile Gln Asp 1825 Pro Ala Lys Ser Asp 1830 Gly Arg Leu
 Lys Pro 1835 Gly Asp Arg Leu Ile 1840 Lys Val Asn Asp Thr 1845 Asp Val Thr
 Asn Met 1850 Thr His Thr Asp Ala 1855 Val Asn Leu Leu Arg 1860 Ala Ala Ser
 Lys Thr 1865 Val Arg Leu Val Ile 1870 Gly Arg Val Leu Glu 1875 Leu Pro Arg
 Ile Pro 1880 Met Leu Pro His Leu 1885 Leu Pro Asp Ile Thr 1890 Leu Thr Cys
 Asn Lys 1895 Glu Glu Leu Gly Phe 1900 Ser Leu Cys Gly Gly 1905 His Asp Ser
 Leu Tyr 1910 Gln Val Val Tyr Ile 1915 Ser Asp Ile Asn Pro 1920 Arg Ser Val
 Ala Ala 1925 Ile Glu Gly Asn Leu 1930 Gln Leu Leu Asp Val 1935 Ile His Tyr
 Val Asn 1940 Gly Val Ser Thr Gln 1945 Gly Met Thr Leu Glu 1950 Glu Val Asn
 Arg Ala 1955 Leu Asp Met Ser Leu 1960 Pro Ser Leu Val Leu 1965 Lys Ala Thr
 Arg Asn 1970 Asp Leu Pro Val Val 1975 Pro Ser Ser Lys Arg 1980 Ser Ala Val
 Ser Ala 1985 Pro Lys Ser Thr Lys 1990 Gly Asn Gly Ser Tyr 1995 Ser Val Gly
 Ser Cys 2000 Ser Gln Pro Ala Leu 2005 Thr Pro Asn Asp Ser 2010 Phe Ser Thr
 Val Ala Gly Glu Glu Ile Asn Glu Ile Ser Tyr Pro Lys Gly Lys

eolf-seql.txt

2015						2020						2025			
Cys	Ser	Thr	Tyr	Gln	Ile	Lys	Gly	Ser	Pro	Asn	Leu	Thr	Leu	Pro	
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Lys	Glu	Ser	Tyr	Ile	Gln	Glu	Asp	Asp	Ile	Tyr	Asp	Asp	Ser	Gln	
	2045					2050					2055				
Glu	Ala	Glu	Val	Ile	Gln	Ser	Leu	Leu	Asp	Val	Val	Asp	Glu	Glu	
	2060					2065					2070				
Ala	Gln	Asn	Leu	Leu	Asn	Glu	Asn	Asn	Ala	Ala	Gly	Tyr	Ser	Cys	
	2075					2080					2085				
Gly	Pro	Gly	Thr	Leu	Lys	Met	Asn	Gly	Lys	Leu	Ser	Glu	Glu	Arg	
	2090					2095					2100				
Thr	Glu	Asp	Thr	Asp	Cys	Asp	Gly	Ser	Pro	Leu	Pro	Glu	Tyr	Phe	
	2105					2110					2115				
Thr	Glu	Ala	Thr	Lys	Met	Asn	Gly	Cys	Glu	Glu	Tyr	Cys	Glu	Glu	
	2120					2125					2130				
Lys	Val	Lys	Ser	Glu	Ser	Leu	Ile	Gln	Lys	Pro	Gln	Glu	Lys	Lys	
	2135					2140					2145				
Thr	Asp	Asp	Asp	Glu	Ile	Thr	Trp	Gly	Asn	Asp	Glu	Leu	Pro	Ile	
	2150					2155					2160				
Glu	Arg	Thr	Asn	His	Glu	Asp	Ser	Asp	Lys	Asp	His	Ser	Phe	Leu	
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Thr	Asn	Asp	Glu	Leu	Ala	Val	Leu	Pro	Val	Val	Lys	Val	Leu	Pro	
	2180					2185					2190				
Ser	Gly	Lys	Tyr	Thr	Gly	Ala	Asn	Leu	Lys	Ser	Val	Ile	Arg	Val	
	2195					2200					2205				
Leu	Arg	Gly	Leu	Leu	Asp	Gln	Gly	Ile	Pro	Ser	Lys	Glu	Leu	Glu	
	2210					2215					2220				
Asn	Leu	Gln	Glu	Leu	Lys	Pro	Leu	Asp	Gln	Cys	Leu	Ile	Gly	Gln	
	2225					2230					2235				
Thr	Lys	Glu	Asn	Arg	Arg	Lys	Asn	Arg	Tyr	Lys	Asn	Ile	Leu	Pro	
	2240					2245					2250				
Tyr	Asp	Ala	Thr	Arg	Val	Pro	Leu	Gly	Asp	Glu	Gly	Gly	Tyr	Ile	
	2255					2260					2265				
Asn	Ala	Ser	Phe	Ile	Lys	Ile	Pro	Val	Gly	Lys	Glu	Glu	Phe	Val	
	2270					2275					2280				

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Tyr Ile Ala Cys Gln Gly Pro Leu Pro Thr Thr Val Gly Asp Phe
 2285 2290 2295
 Trp Gln Met Ile Trp Glu Gln Lys Ser Thr Val Ile Ala Met Met
 2300 2305 2310
 Thr Gln Glu Val Glu Gly Glu Lys Ile Lys Cys Gln Arg Tyr Trp
 2315 2320 2325
 Pro Asn Ile Leu Gly Lys Thr Thr Met Val Ser Asn Arg Leu Arg
 2330 2335 2340
 Leu Ala Leu Val Arg Met Gln Gln Leu Lys Gly Phe Val Val Arg
 2345 2350 2355
 Ala Met Thr Leu Glu Asp Ile Gln Thr Arg Glu Val Arg His Ile
 2360 2365 2370
 Ser His Leu Asn Phe Thr Ala Trp Pro Asp His Asp Thr Pro Ser
 2375 2380 2385
 Gln Pro Asp Asp Leu Leu Thr Phe Ile Ser Tyr Met Arg His Ile
 2390 2395 2400
 His Arg Ser Gly Pro Ile Ile Thr His Cys Ser Ala Gly Ile Gly
 2405 2410 2415
 Arg Ser Gly Thr Leu Ile Cys Ile Asp Val Val Leu Gly Leu Ile
 2420 2425 2430
 Ser Gln Asp Leu Asp Phe Asp Ile Ser Asp Leu Val Arg Cys Met
 2435 2440 2445
 Arg Leu Gln Arg His Gly Met Val Gln Thr Glu Asp Gln Tyr Ile
 2450 2455 2460
 Phe Cys Tyr Gln Val Ile Leu Tyr Val Leu Thr Arg Leu Gln Ala
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 Glu Glu Glu Gln Lys Gln Gln Pro Gln Leu Leu Lys
 2480 2485 2490
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 Met His Val Ser Leu Ala Glu Ala Leu Glu Val Arg Gly Gly Pro Leu
 1 5 10 15

Gln Glu Glu Glu Ile Trp Ala Val Leu Asn Gln Ser Ala Glu Ser Leu
 20 25 30
 Gln Glu Leu Phe Arg Lys Val Ser Leu Ala Asp Pro Ala Ala Leu Gly
 35 40 45
 Phe Ile Ile Ser Pro Trp Ser Leu Leu Leu Leu Pro Ser Gly Ser Val
 50 55 60
 Ser Phe Thr Asp Glu Asn Ile Ser Asn Gln Asp Leu Arg Ala Phe Thr
 65 70 75 80
 Ala Pro Glu Val Leu Gln Asn Gln Ser Leu Thr Ser Leu Ser Asp Val
 85 90 95
 Glu Lys Ile His Ile Tyr Ser Leu Gly Met Thr Leu Tyr Trp Gly Ala
 100 105 110
 Asp Tyr Glu Val Pro Gln Ser Gln Pro Ile Lys Leu Gly Asp His Leu
 115 120 125
 Asn Ser Ile Leu Leu Gly Met Cys Glu Asp Val Ile Tyr Ala Arg Val
 130 135 140
 Ser Val Arg Thr Val Leu Asp Ala Cys Ser Ala His Ile Arg Asn Ser
 145 150 155 160
 Asn Cys Ala Pro Ser Phe Ser Tyr Val Lys His Leu Val Lys Leu Val
 165 170 175
 Leu Gly Asn Leu Ser Gly Thr Asp Gln Leu Ser Cys Asn Ser Glu Gln
 180 185 190
 Lys Pro Asp Arg Ser Gln Ala Ile Arg Asp Arg Leu Arg Gly Lys Gly
 195 200 205
 Leu Pro Thr Gly Arg Ser Ser Thr Ser Asp Val Leu Asp Ile Gln Lys
 210 215 220
 Pro Pro Leu Ser His Gln Thr Phe Leu Asn Lys Gly Leu Ser Lys Ser
 225 230 235 240
 Met Gly Phe Leu Ser Ile Lys Asp Thr Gln Asp Glu Asn Tyr Phe Lys
 245 250 255
 Asp Ile Leu Ser Asp Asn Ser Gly Arg Glu Asp Ser Glu Asn Thr Phe
 260 265 270
 Ser Pro Tyr Gln Phe Lys Thr Ser Gly Pro Glu Lys Lys Pro Ile Pro
 275 280 285
 Gly Ile Asp Val Leu Ser Lys Lys Lys Ile Trp Ala Ser Ser Met Asp
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Leu Leu Cys Thr Ala Asp Arg Asp Phe Ser Ser Gly Glu Thr Ala Thr
305 310 315 320

Tyr Arg Arg Cys His Pro Glu Ala Val Thr Val Arg Thr Ser Thr Thr
325 330 335

Pro Arg Lys Lys Glu Ala Arg Tyr Ser Asp Gly Ser Ile Ala Leu Asp
340 345 350

Ile Phe Gly Pro Gln Lys Met Asp Pro Ile Tyr His Thr Arg Glu Leu
355 360 365

Pro Thr Ser Ser Ala Ile Ser Ser Ala Leu Asp Arg Ile Arg Glu Arg
370 375 380

Gln Lys Lys Leu Gln Val Leu Arg Glu Ala Met Asn Val Glu Glu Pro
385 390 395 400

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

Glu Ser Pro Ser Ile Ile Ser Ser Glu Ser Asp Phe Arg Gln Val Arg
420 425 430

Arg Ser Glu Ala Ser Lys Arg Phe Glu Ser Ser Ser Gly Leu Pro Gly
435 440 445

Val Asp Glu Thr Leu Ser Gln Gly Gln Ser Gln Arg Pro Ser Arg Gln
450 455 460

Tyr Glu Thr Pro Phe Glu Gly Asn Leu Ile Asn Gln Glu Ile Met Leu
465 470 475 480

Lys Arg Gln Glu Glu Glu Leu Met Gln Leu Gln Ala Lys Met Ala Leu
485 490 495

Arg Gln Ser Arg Leu Ser Leu Tyr Pro Gly Asp Thr Ile Lys Ala Ser
500 505 510

Met Leu Asp Ile Thr Arg Asp Pro Leu Arg Glu Ile Ala Leu Glu Thr
515 520 525

Ala Met Thr Gln Arg Lys Leu Arg Asn Phe Phe Gly Pro Glu Phe Val
530 535 540

Lys Met Thr Ile Glu Pro Phe Ile Ser Leu Asp Leu Pro Arg Ser Ile
545 550 555 560

Leu Thr Lys Lys Gly Lys Asn Glu Asp Asn Arg Arg Lys Val Asn Ile
565 570 575

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Met Leu Leu Asn Gly Gln Arg Leu Glu Leu Thr Cys Asp Thr Lys Thr
580 585 590

Ile Cys Lys Asp Val Phe Asp Met Val Val Ala His Ile Gly Leu Val
595 600 605

Glu His His Leu Phe Ala Leu Ala Thr Leu Lys Asp Asn Glu Tyr Phe
610 615 620

Phe Val Asp Pro Asp Leu Lys Leu Thr Lys Val Ala Pro Glu Gly Trp
625 630 635 640

Lys Glu Glu Pro Lys Lys Lys Thr Lys Ala Thr Val Asn Phe Thr Leu
645 650 655

Phe Phe Arg Ile Lys Phe Phe Met Asp Asp Val Ser Leu Ile Gln His
660 665 670

Thr Leu Thr Cys His Gln Tyr Tyr Leu Gln Leu Arg Lys Asp Ile Leu
675 680 685

Glu Glu Arg Met His Cys Asp Asp Glu Thr Ser Leu Leu Leu Ala Ser
690 695 700

Leu Ala Leu Gln Ala Glu Tyr Gly Asp Tyr Gln Pro Glu Val His Gly
705 710 715 720

Val Ser Tyr Phe Arg Met Glu His Tyr Leu Pro Ala Arg Val Met Glu
725 730 735

Lys Leu Asp Leu Ser Tyr Ile Lys Glu Glu Leu Pro Lys Leu His Asn
740 745 750

Thr Tyr Val Gly Ala Ser Glu Lys Glu Thr Glu Leu Glu Phe Leu Lys
755 760 765

Val Cys Gln Arg Leu Thr Glu Tyr Gly Val His Phe His Arg Val His
770 775 780

Pro Glu Lys Lys Ser Gln Thr Gly Ile Leu Leu Gly Val Cys Ser Lys
785 790 795 800

Gly Val Leu Val Phe Glu Val His Asn Gly Val Arg Thr Leu Val Leu
805 810 815

Arg Phe Pro Trp Arg Glu Thr Lys Lys Ile Ser Phe Ser Lys Lys Lys
820 825 830

Ile Thr Leu Gln Asn Thr Ser Asp Gly Ile Lys His Gly Phe Gln Thr
835 840 845

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Asp Asn Ser Lys Ile Cys Gln Tyr Leu Leu His Leu Cys Ser Tyr Gln
 850 855 860
 His Lys Phe Gln Leu Gln Met Arg Ala Arg Gln Ser Asn Gln Asp Ala
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 Gln Asp Ile Glu Arg Ala Ser Phe Arg Ser Leu Asn Leu Gln Ala Glu
 885 890 895
 Ser Val Arg Gly Phe Asn Met Gly Arg Ala Ile Ser Thr Gly Ser Leu
 900 905 910
 Ala Ser Ser Thr Leu Asn Lys Leu Ala Val Arg Pro Leu Ser Val Gln
 915 920 925
 Ala Glu Ile Leu Lys Arg Leu Ser Cys Ser Glu Leu Ser Leu Tyr Gln
 930 935 940
 Pro Leu Gln Asn Ser Ser Lys Glu Lys Asn Asp Lys Ala Ser Trp Glu
 945 950 955 960
 Glu Lys Pro Arg Glu Met Ser Lys Ser Tyr His Asp Leu Ser Gln Ala
 965 970 975
 Ser Leu Tyr Pro His Arg Lys Asn Val Ile Val Asn Met Glu Pro Pro
 980 985 990
 Pro Gln Thr Val Ala Glu Leu Val Gly Lys Pro Ser His Gln Met Ser
 995 1000 1005
 Arg Ser Asp Ala Glu Ser Leu Ala Gly Val Thr Lys Leu Asn Asn
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 His Glu Ser Asp Ser Ser Ser Ile Glu Asp Pro Gly Gln Ala Tyr
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 Val Leu Asp Val Leu His Lys Arg Trp Ser Ile Val Ser Ser Pro
 1055 1060 1065
 Glu Arg Glu Ile Thr Leu Val Asn Leu Lys Lys Asp Ala Lys Tyr
 1070 1075 1080
 Gly Leu Gly Phe Gln Ile Ile Gly Gly Glu Lys Met Gly Arg Leu
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 Asp Leu Gly Ile Phe Ile Ser Ser Val Ala Pro Gly Gly Pro Ala
 1100 1105 1110

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 Asn Ser 1130 Val Ser Leu Glu Gly 1135 Val Ser His His Ala 1140 Ala Ile Glu
 Ile Leu 1145 Gln Asn Ala Pro Glu 1150 Asp Val Thr Leu Val 1155 Ile Ser Gln
 Pro Lys 1160 Glu Lys Ile Ser Lys 1165 Val Pro Ser Thr Pro 1170 Val His Leu
 Thr Asn 1175 Glu Met Lys Asn Tyr 1180 Met Lys Lys Ser Ser 1185 Tyr Met Gln
 Asp Ser 1190 Ala Ile Asp Ser Ser 1195 Ser Lys Asp His His 1200 Trp Ser Arg
 Gly Thr 1205 Leu Arg His Ile Ser 1210 Glu Asn Ser Phe Gly 1215 Pro Ser Gly
 Gly Leu 1220 Arg Glu Gly Ser Leu 1225 Ser Ser Gln Asp Ser 1230 Arg Thr Glu
 Ser Ala 1235 Ser Leu Ser Gln Ser 1240 Gln Val Asn Gly Phe 1245 Phe Ala Ser
 His Leu 1250 Gly Asp Gln Thr Trp 1255 Gln Glu Ser Gln His 1260 Gly Ser Pro
 Ser Pro 1265 Ser Val Ile Ser Lys 1270 Ala Thr Glu Lys Glu 1275 Thr Phe Thr
 Asp Ser 1280 Asn Gln Ser Lys Thr 1285 Lys Lys Pro Gly Ile 1290 Ser Asp Val
 Thr Asp 1295 Tyr Ser Asp Arg Gly 1300 Asp Ser Asp Met Asp 1305 Glu Ala Thr
 Tyr Ser 1310 Ser Ser Gln Asp His 1315 Gln Thr Pro Lys Gln 1320 Glu Ser Ser
 Ser Ser 1325 Val Asn Thr Ser Asn 1330 Lys Met Asn Phe Lys 1335 Thr Phe Ser
 Ser Ser 1340 Pro Pro Lys Pro Gly 1345 Asp Ile Phe Glu Val 1350 Glu Leu Ala
 Lys Asn 1355 Asp Asn Ser Leu Gly 1360 Ile Ser Val Thr Gly 1365 Gly Val Asn
 Thr Ser Val Arg His Gly Gly Ile Tyr Val Lys Ala Val Ile Pro

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Gln	Ala	Val	Glu	Thr	Leu	Arg	Asn	Thr	Gly	Gln	Val	Val His Leu
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Gly	Pro	Glu	Lys	Val	Lys	Lys	Thr	Thr	Gln	Val	Lys	Asp Tyr Ser
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Phe	Val	Thr	Glu	Glu	Asn	Thr	Phe	Glu	Val	Lys	Leu	Phe Lys Asn
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Ser	Ser	Gly	Leu	Gly	Phe	Ser	Phe	Ser	Arg	Glu	Asp	Asn Leu Ile
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Pro	Glu	Gln	Ile	Asn	Ala	Ser	Ile	Val	Arg	Val	Lys	Lys Leu Phe
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Pro	Gly	Gln	Pro	Ala	Ala	Glu	Ser	Gly	Lys	Ile	Asp	Val Gly Asp
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Gln	Glu	Val	Ile	Ser	Ala	Leu	Arg	Gly	Thr	Ala	Pro	Glu Val Phe
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Leu	Leu	Leu	Cys	Arg	Pro	Pro	Pro	Gly	Val	Leu	Pro	Glu Ile Asp
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Thr	Ala	Leu	Leu	Thr	Pro	Leu	Gln	Ser	Pro	Ala	Gln	Val Leu Pro
1580						1585					1590	
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1595						1600					1605	
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Ser	Gly 1640	Glu	Asp	Asp	Leu	Val 1645	Thr	Ala	Pro	Ala	Asn 1650	Ile	Ser	Asn
Ser	Thr 1655	Trp	Ser	Ser	Ala	Leu 1660	His	Gln	Thr	Leu	Ser 1665	Asn	Met	Val
Ser	Gln 1670	Ala	Gln	Ser	His	His 1675	Glu	Ala	Pro	Lys	Ser 1680	Gln	Glu	Asp
Thr	Ile 1685	Cys	Thr	Met	Phe	Tyr 1690	Tyr	Pro	Gln	Lys	Ile 1695	Pro	Asn	Lys
Pro	Glu 1700	Phe	Glu	Asp	Ser	Asn 1705	Pro	Ser	Pro	Leu	Pro 1710	Pro	Asp	Met
Ala	Pro 1715	Gly	Gln	Ser	Tyr	Gln 1720	Pro	Gln	Ser	Glu	Ser 1725	Ala	Ser	Ser
Ser	Ser 1730	Met	Asp	Lys	Tyr	His 1735	Ile	His	His	Ile	Ser 1740	Glu	Pro	Thr
Arg	Gln 1745	Glu	Asn	Trp	Thr	Pro 1750	Leu	Lys	Asn	Asp	Leu 1755	Glu	Asn	His
Leu	Glu 1760	Asp	Phe	Glu	Leu	Glu 1765	Val	Glu	Leu	Leu	Ile 1770	Thr	Leu	Ile
Lys	Ser 1775	Glu	Lys	Gly	Ser	Leu 1780	Gly	Phe	Thr	Val	Thr 1785	Lys	Gly	Asn
Gln	Arg 1790	Ile	Gly	Cys	Tyr	Val 1795	His	Asp	Val	Ile	Gln 1800	Asp	Pro	Ala
Lys	Ser 1805	Asp	Gly	Arg	Leu	Lys 1810	Pro	Gly	Asp	Arg	Leu 1815	Ile	Lys	Val
Asn	Asp 1820	Thr	Asp	Val	Thr	Asn 1825	Met	Thr	His	Thr	Asp 1830	Ala	Val	Asn
Leu	Leu 1835	Arg	Ala	Ala	Ser	Lys 1840	Thr	Val	Arg	Leu	Val 1845	Ile	Gly	Arg
Val	Leu 1850	Glu	Leu	Pro	Arg	Ile 1855	Pro	Met	Leu	Pro	His 1860	Leu	Leu	Pro
Asp	Ile 1865	Thr	Leu	Thr	Cys	Asn 1870	Lys	Glu	Glu	Leu	Gly 1875	Phe	Ser	Leu
Cys	Gly 1880	Gly	His	Asp	Ser	Leu 1885	Tyr	Gln	Val	Val	Tyr 1890	Ile	Ser	Asp

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Ile	Asn 1895	Pro	Arg	Ser	Val	Ala 1900	Ala	Ile	Glu	Gly	Asn 1905	Leu	Gln	Leu
Leu	Asp 1910	Val	Ile	His	Tyr	Val 1915	Asn	Gly	Val	Ser	Thr 1920	Gln	Gly	Met
Thr	Leu 1925	Glu	Glu	Val	Asn	Arg 1930	Ala	Leu	Asp	Met	Ser 1935	Leu	Pro	Ser
Leu	Val 1940	Leu	Lys	Ala	Thr	Arg 1945	Asn	Asp	Leu	Pro	Val 1950	Val	Pro	Ser
Ser	Lys 1955	Arg	Ser	Ala	Val	Ser 1960	Ala	Pro	Lys	Ser	Thr 1965	Lys	Gly	Asn
Gly	Ser 1970	Tyr	Ser	Val	Gly	Ser 1975	Cys	Ser	Gln	Pro	Ala 1980	Leu	Thr	Pro
Asn	Asp 1985	Ser	Phe	Ser	Thr	Val 1990	Ala	Gly	Glu	Glu	Ile 1995	Asn	Glu	Ile
Ser	Tyr 2000	Pro	Lys	Gly	Lys	Cys 2005	Ser	Thr	Tyr	Gln	Ile 2010	Lys	Gly	Ser
Pro	Asn 2015	Leu	Thr	Leu	Pro	Lys 2020	Glu	Ser	Tyr	Ile	Gln 2025	Glu	Asp	Asp
Ile	Tyr 2030	Asp	Asp	Ser	Gln	Glu 2035	Ala	Glu	Val	Ile	Gln 2040	Ser	Leu	Leu
Asp	Val 2045	Val	Asp	Glu	Glu	Ala 2050	Gln	Asn	Leu	Leu	Asn 2055	Glu	Asn	Asn
Ala	Ala 2060	Gly	Tyr	Ser	Cys	Gly 2065	Pro	Gly	Thr	Leu	Lys 2070	Met	Asn	Gly
Lys	Leu 2075	Ser	Glu	Glu	Arg	Thr 2080	Glu	Asp	Thr	Asp	Cys 2085	Asp	Gly	Ser
Pro	Leu 2090	Pro	Glu	Tyr	Phe	Thr 2095	Glu	Ala	Thr	Lys	Met 2100	Asn	Gly	Cys
Glu	Glu 2105	Tyr	Cys	Glu	Glu	Lys 2110	Val	Lys	Ser	Glu	Ser 2115	Leu	Ile	Gln
Lys	Pro 2120	Gln	Glu	Lys	Lys	Thr 2125	Asp	Asp	Asp	Glu	Ile 2130	Thr	Trp	Gly
Asn	Asp 2135	Glu	Leu	Pro	Ile	Glu 2140	Arg	Thr	Asn	His	Glu 2145	Asp	Ser	Asp

Lys Asp His Ser Phe Leu Thr Asn Asp Glu Leu Ala Val Leu Pro
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 2180 2185 2190
 Pro Ser Lys Glu Leu Glu Asn Leu Gln Glu Leu Lys Pro Leu Asp
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 Gln Cys Leu Ile Gly Gln Thr Lys Glu Asn Arg Arg Lys Asn Arg
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 2240 2245 2250
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 Thr Thr Val Gly Asp Phe Trp Gln Met Ile Trp Glu Gln Lys Ser
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 Thr Val Ile Ala Met Met Thr Gln Glu Val Glu Gly Glu Lys Ile
 2285 2290 2295
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 Ser Tyr Met Arg His Ile His Arg Ser Gly Pro Ile Ile Thr His
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 2390 2395 2400
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 Thr Glu Asp Gln Tyr Ile Phe Cys Tyr Gln Val Ile Leu Tyr Val
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 <223> LAR-Neu lower primer

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