

6024692seq.list
SEQUENCE LISTING

<110> Prosensa Technologies B.V.
 <120> Oligonucleotide comprising an inosine for treating DMD by exon skipping
 <130> P6024692PCT
 <150> US 61/172,506
 <151> 2009-04-24
 <150> EP 09158731.1
 <151> 2009-04-24
 <160> 577
 <170> PatentIn version 3.3
 <210> 1
 <211> 3685
 <212> PRT
 <213> Homo sapiens
 <400> 1

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Gly Lys Gln His Ile Glu Asn Leu Phe Ser Asp Leu Gln Asp Gly Arg
 35 40 45

Arg Leu Leu Asp Leu Leu Glu Gly Leu Thr Gly Gln Lys Leu Pro Lys
 50 55 60

Glu Lys Gly Ser Thr Arg Val His Ala Leu Asn Asn Val Asn Lys Ala
 65 70 75 80

Leu Arg Val Leu Gln Asn Asn Asn Val Asp Leu Val Asn Ile Gly Ser
 85 90 95

Thr Asp Ile Val Asp Gly Asn His Lys Leu Thr Leu Gly Leu Ile Trp
 100 105 110

Asn Ile Ile Leu His Trp Gln Val Lys Asn Val Met Lys Asn Ile Met
 115 120 125

Ala Gly Leu Gln Gln Thr Asn Ser Glu Lys Ile Leu Leu Ser Trp Val
 130 135 140

Arg Gln Ser Thr Arg Asn Tyr Pro Gln Val Asn Val Ile Asn Phe Thr
 145 150 155 160

Thr Ser Trp Ser Asp Gly Leu Ala Leu Asn Ala Leu Ile His Ser His
 165 170 175

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

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Leu Met Asp Leu Gln Asn Gln Lys Leu Lys Glu Leu Asn Asp Trp Leu
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Thr Lys Thr Glu Glu Arg Thr Arg Lys Met Glu Glu Glu Pro Leu Gly
465 470 475 480

Pro Asp Leu Glu Asp Leu Lys Arg Gln Val Gln Gln His Lys Val Leu
485 490 495

Gln Glu Asp Leu Glu Gln Glu Gln Val Arg Val Asn Ser Leu Thr His
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515 520 525

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

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Trp Gln Arg Leu Thr Glu Glu Gln Cys Leu Phe Ser Ala Trp Leu Ser
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Glu Lys Glu Asp Ala Val Asn Lys Ile His Thr Thr Gly Phe Lys Asp
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Gln Asn Glu Met Leu Ser Ser Leu Gln Lys Leu Ala Val Leu Lys Ala
595 600 605

Asp Leu Glu Lys Lys Lys Gln Ser Met Gly Lys Leu Tyr Ser Leu Lys
610 615 620

Gln Asp Leu Leu Ser Thr Leu Lys Asn Lys Ser Val Thr Gln Lys Thr
625 630 635 640

Glu Ala Trp Leu Asp Asn Phe Ala Arg Cys Trp Asp Asn Leu Val Gln
645 650 655

Lys Leu Glu Lys Ser Thr Ala Gln Ile Ser Gln Ala Val Thr Thr Thr
660 665 670

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

Pro Pro Pro Pro Gln Lys Lys Arg Gln Ile Thr Val Asp Ser Glu Ile
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Arg Lys Arg Leu Asp Val Asp Ile Thr Glu Leu His Ser Trp Ile Thr

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725

730

735

Arg Ser Glu Ala Val Leu Gln Ser Pro Glu Phe Ala Ile Phe Arg Lys
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 Glu Gly Asn Phe Ser Asp Leu Lys Glu Lys Val Asn Ala Ile Glu Arg
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 Glu Lys Ala Glu Lys Phe Arg Lys Leu Gln Asp Ala Ser Arg Ser Ala
 770 775 780
 Gln Ala Leu Val Glu Gln Met Val Asn Glu Gly Val Asn Ala Asp Ser
 785 790 795 800
 Ile Lys Gln Ala Ser Glu Gln Leu Asn Ser Arg Trp Ile Glu Phe Cys
 805 810 815
 Gln Leu Leu Ser Glu Arg Leu Asn Trp Leu Glu Tyr Gln Asn Asn Ile
 820 825 830
 Ile Ala Phe Tyr Asn Gln Leu Gln Gln Leu Glu Gln Met Thr Thr Thr
 835 840 845
 Ala Glu Asn Trp Leu Lys Ile Gln Pro Thr Thr Pro Ser Glu Pro Thr
 850 855 860
 Ala Ile Lys Ser Gln Leu Lys Ile Cys Lys Asp Glu Val Asn Arg Leu
 865 870 875 880
 Ser Gly Leu Gln Pro Gln Ile Glu Arg Leu Lys Ile Gln Ser Ile Ala
 885 890 895
 Leu Lys Glu Lys Gly Gln Gly Pro Met Phe Leu Asp Ala Asp Phe Val
 900 905 910
 Ala Phe Thr Asn His Phe Lys Gln Val Phe Ser Asp Val Gln Ala Arg
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 Glu Lys Glu Leu Gln Thr Ile Phe Asp Thr Leu Pro Pro Met Arg Tyr
 930 935 940
 Gln Glu Thr Met Ser Ala Ile Arg Thr Trp Val Gln Gln Ser Glu Thr
 945 950 955 960
 Lys Leu Ser Ile Pro Gln Leu Ser Val Thr Asp Tyr Glu Ile Met Glu
 965 970 975
 Gln Arg Leu Gly Glu Leu Gln Ala Leu Gln Ser Ser Leu Gln Glu Gln
 980 985 990
 Gln Ser Gly Leu Tyr Tyr Leu Ser Thr Thr Val Lys Glu Met Ser Lys
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Gln	Asn	His	Ile	Gln	Thr	Leu	Lys	Lys	Trp	Met	Ala	Glu	Val	Asp
	1055					1060					1065			
Val	Phe	Leu	Lys	Glu	Glu	Trp	Pro	Ala	Leu	Gly	Asp	Ser	Glu	Ile
	1070					1075					1080			
Leu	Lys	Lys	Gln	Leu	Lys	Gln	Cys	Arg	Leu	Leu	Val	Ser	Asp	Ile
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Gln	Thr	Ile	Gln	Pro	Ser	Leu	Asn	Ser	Val	Asn	Glu	Gly	Gly	Gln
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Thr	Glu	Leu	Lys	Glu	Leu	Asn	Thr	Gln	Trp	Asp	His	Met	Cys	Gln
	1130					1135					1140			
Gln	Val	Tyr	Ala	Arg	Lys	Glu	Ala	Leu	Lys	Gly	Gly	Leu	Glu	Lys
	1145					1150					1155			
Thr	Val	Ser	Leu	Gln	Lys	Asp	Leu	Ser	Glu	Met	His	Glu	Trp	Met
	1160					1165					1170			
Thr	Gln	Ala	Glu	Glu	Glu	Tyr	Leu	Glu	Arg	Asp	Phe	Glu	Tyr	Lys
	1175					1180					1185			
Thr	Pro	Asp	Glu	Leu	Gln	Lys	Ala	Val	Glu	Glu	Met	Lys	Arg	Ala
	1190					1195					1200			
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Glu	Ser	Val	Asn	Ser	Val	Ile	Ala	Gln	Ala	Pro	Pro	Val	Ala	Gln
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Glu	Ala	Leu	Lys	Lys	Glu	Leu	Glu	Thr	Leu	Thr	Thr	Asn	Tyr	Gln
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Leu	Ile	Asn	Glu	Glu	Leu	Glu	Thr	Phe	Asn	Ser	Arg	Trp	Arg	Glu
	1340					1345					1350			
Leu	His	Glu	Glu	Ala	Val	Arg	Arg	Gln	Lys	Leu	Leu	Glu	Gln	Ser
	1355					1360					1365			
Ile	Gln	Ser	Ala	Gln	Glu	Thr	Glu	Lys	Ser	Leu	His	Leu	Ile	Gln
	1370					1375					1380			
Glu	Ser	Leu	Thr	Phe	Ile	Asp	Lys	Gln	Leu	Ala	Ala	Tyr	Ile	Ala
	1385					1390					1395			
Asp	Lys	Val	Asp	Ala	Ala	Gln	Met	Pro	Gln	Glu	Ala	Gln	Lys	Ile
	1400					1405					1410			
Gln	Ser	Asp	Leu	Thr	Ser	His	Glu	Ile	Ser	Leu	Glu	Glu	Met	Lys
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Lys	His	Asn	Gln	Gly	Lys	Glu	Ala	Ala	Gln	Arg	Val	Leu	Ser	Gln
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Glu	Thr	Lys	Ser	Val	Glu	Gln	Glu	Val	Val	Gln	Ser	Gln	Leu	Asn
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Gln Thr Glu Asn Pro Lys Glu Leu Asp Glu Arg Val Thr Ala Leu
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Gln Gln Leu Glu Lys Cys Leu Lys Leu Ser Arg Lys Met Arg Lys
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Glu Met Asn Val Leu Thr Glu Trp Leu Ala Ala Thr Asp Met Glu
1580 1585 1590

Leu Thr Lys Arg Ser Ala Val Glu Gly Met Pro Ser Asn Leu Asp
1595 1600 1605

Ser Glu Val Ala Trp Gly Lys Ala Thr Gln Lys Glu Ile Glu Lys
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Gln Lys Val His Leu Lys Ser Ile Thr Glu Val Gly Glu Ala Leu
1625 1630 1635

Lys Thr Val Leu Gly Lys Lys Glu Thr Leu Val Glu Asp Lys Leu
1640 1645 1650

Ser Leu Leu Asn Ser Asn Trp Ile Ala Val Thr Ser Arg Ala Glu
1655 1660 1665

Glu Trp Leu Asn Leu Leu Leu Glu Tyr Gln Lys His Met Glu Thr
1670 1675 1680

Phe Asp Gln Asn Val Asp His Ile Thr Lys Trp Ile Ile Gln Ala
1685 1690 1695

Asp Thr Leu Leu Asp Glu Ser Glu Lys Lys Lys Pro Gln Gln Lys
1700 1705 1710

Glu Asp Val Leu Lys Arg Leu Lys Ala Glu Leu Asn Asp Ile Arg
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Pro Lys Val Asp Ser Thr Arg Asp Gln Ala Ala Asn Leu Met Ala
1730 1735 1740

Asn Arg Gly Asp His Cys Arg Lys Leu Val Glu Pro Gln Ile Ser
1745 1750 1755

Glu Leu Asn His Arg Phe Ala Ala Ile Ser His Arg Ile Lys Thr
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Gly Lys Ala Ser Ile Pro Leu Lys Glu Leu Glu Gln Phe Asn Ser

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Gly Val 1805	Asn Leu Lys Glu	Glu 1810	Asp Phe Asn Lys Asp 1815	Met Asn Glu
Asp Asn 1820	Glu Gly Thr Val	Lys 1825	Glu Leu Leu Gln Arg 1830	Gly Asp Asn
Leu Gln 1835	Gln Arg Ile Thr	Asp 1840	Glu Arg Lys Arg Glu 1845	Glu Ile Lys
Ile Lys 1850	Gln Gln Leu Leu	Gln 1855	Thr Lys His Asn Ala 1860	Leu Lys Asp
Leu Arg 1865	Ser Gln Arg Arg	Lys 1870	Lys Ala Leu Glu Ile 1875	Ser His Gln
Trp Tyr 1880	Gln Tyr Lys Arg	Gln 1885	Ala Asp Asp Leu Leu 1890	Lys Cys Leu
Asp Asp 1895	Ile Glu Lys Lys	Leu 1900	Ala Ser Leu Pro Glu 1905	Pro Arg Asp
Glu Arg 1910	Lys Ile Lys Glu	Ile 1915	Asp Arg Glu Leu Gln 1920	Lys Lys Lys
Glu Glu 1925	Leu Asn Ala Val	Arg 1930	Arg Gln Ala Glu Gly 1935	Leu Ser Glu
Asp Gly 1940	Ala Ala Met Ala	Val 1945	Glu Pro Thr Gln Ile 1950	Gln Leu Ser
Lys Arg 1955	Trp Arg Glu Ile	Glu 1960	Ser Lys Phe Ala Gln 1965	Phe Arg Arg
Leu Asn 1970	Phe Ala Gln Ile	His 1975	Thr Val Arg Glu Glu 1980	Thr Met Met
Val Met 1985	Thr Glu Asp Met	Pro 1990	Leu Glu Ile Ser Tyr 1995	Val Pro Ser
Thr Tyr 2000	Leu Thr Glu Ile	Thr 2005	His Val Ser Gln Ala 2010	Leu Leu Glu
Val Glu 2015	Gln Leu Leu Asn	Ala 2020	Pro Asp Leu Cys Ala 2025	Lys Asp Phe
Glu Asp 2030	Leu Phe Lys Gln	Glu 2035	Glu Ser Leu Lys Asn 2040	Ile Lys Asp

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Leu	Gln	Glu	Ala	Leu	Ser	Gln	Leu	Asp	Phe	Gln	Trp	Glu	Lys	Val
	2075					2080					2085			
Asn	Lys	Met	Tyr	Lys	Asp	Arg	Gln	Gly	Arg	Phe	Asp	Arg	Ser	Val
	2090					2095					2100			
Glu	Lys	Trp	Arg	Arg	Phe	His	Tyr	Asp	Ile	Lys	Ile	Phe	Asn	Gln
	2105					2110					2115			
Trp	Leu	Thr	Glu	Ala	Glu	Gln	Phe	Leu	Arg	Lys	Thr	Gln	Ile	Pro
	2120					2125					2130			
Glu	Asn	Trp	Glu	His	Ala	Lys	Tyr	Lys	Trp	Tyr	Leu	Lys	Glu	Leu
	2135					2140					2145			
Gln	Asp	Gly	Ile	Gly	Gln	Arg	Gln	Thr	Val	Val	Arg	Thr	Leu	Asn
	2150					2155					2160			
Ala	Thr	Gly	Glu	Glu	Ile	Ile	Gln	Gln	Ser	Ser	Lys	Thr	Asp	Ala
	2165					2170					2175			
Ser	Ile	Leu	Gln	Glu	Lys	Leu	Gly	Ser	Leu	Asn	Leu	Arg	Trp	Gln
	2180					2185					2190			
Glu	Val	Cys	Lys	Gln	Leu	Ser	Asp	Arg	Lys	Lys	Arg	Leu	Glu	Glu
	2195					2200					2205			
Gln	Lys	Asn	Ile	Leu	Ser	Glu	Phe	Gln	Arg	Asp	Leu	Asn	Glu	Phe
	2210					2215					2220			
Val	Leu	Trp	Leu	Glu	Glu	Ala	Asp	Asn	Ile	Ala	Ser	Ile	Pro	Leu
	2225					2230					2235			
Glu	Pro	Gly	Lys	Glu	Gln	Gln	Leu	Lys	Glu	Lys	Leu	Glu	Gln	Val
	2240					2245					2250			
Lys	Leu	Leu	Val	Glu	Glu	Leu	Pro	Leu	Arg	Gln	Gly	Ile	Leu	Lys
	2255					2260					2265			
Gln	Leu	Asn	Glu	Thr	Gly	Gly	Pro	Val	Leu	Val	Ser	Ala	Pro	Ile
	2270					2275					2280			
Ser	Pro	Glu	Glu	Gln	Asp	Lys	Leu	Glu	Asn	Lys	Leu	Lys	Gln	Thr
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Asn	Leu	Gln	Trp	Ile	Lys	Val	Ser	Arg	Ala	Leu	Pro	Glu	Lys	Gln
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Lys	Leu	Glu	Asp	Leu	Glu	Glu	Gln	Leu	Asn	His	Leu	Leu	Leu	Trp
	2330					2335					2340			
Leu	Ser	Pro	Ile	Arg	Asn	Gln	Leu	Glu	Ile	Tyr	Asn	Gln	Pro	Asn
	2345					2350					2355			
Gln	Glu	Gly	Pro	Phe	Asp	Val	Gln	Glu	Thr	Glu	Ile	Ala	Val	Gln
	2360					2365					2370			
Ala	Lys	Gln	Pro	Asp	Val	Glu	Glu	Ile	Leu	Ser	Lys	Gly	Gln	His
	2375					2380					2385			
Leu	Tyr	Lys	Glu	Lys	Pro	Ala	Thr	Gln	Pro	Val	Lys	Arg	Lys	Leu
	2390					2395					2400			
Glu	Asp	Leu	Ser	Ser	Glu	Trp	Lys	Ala	Val	Asn	Arg	Leu	Leu	Gln
	2405					2410					2415			
Glu	Leu	Arg	Ala	Lys	Gln	Pro	Asp	Leu	Ala	Pro	Gly	Leu	Thr	Thr
	2420					2425					2430			
Ile	Gly	Ala	Ser	Pro	Thr	Gln	Thr	Val	Thr	Leu	Val	Thr	Gln	Pro
	2435					2440					2445			
Val	Val	Thr	Lys	Glu	Thr	Ala	Ile	Ser	Lys	Leu	Glu	Met	Pro	Ser
	2450					2455					2460			
Ser	Leu	Met	Leu	Glu	Val	Pro	Ala	Leu	Ala	Asp	Phe	Asn	Arg	Ala
	2465					2470					2475			
Trp	Thr	Glu	Leu	Thr	Asp	Trp	Leu	Ser	Leu	Leu	Asp	Gln	Val	Ile
	2480					2485					2490			
Lys	Ser	Gln	Arg	Val	Met	Val	Gly	Asp	Leu	Glu	Asp	Ile	Asn	Glu
	2495					2500					2505			
Met	Ile	Ile	Lys	Gln	Lys	Ala	Thr	Met	Gln	Asp	Leu	Glu	Gln	Arg
	2510					2515					2520			
Arg	Pro	Gln	Leu	Glu	Glu	Leu	Ile	Thr	Ala	Ala	Gln	Asn	Leu	Lys
	2525					2530					2535			
Asn	Lys	Thr	Ser	Asn	Gln	Glu	Ala	Arg	Thr	Ile	Ile	Thr	Asp	Arg
	2540					2545					2550			

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Ile Glu Arg Ile Gln Asn Gln Trp Asp Glu Val Gln Glu His Leu
 2555 2560 2565
 Gln Asn Arg Arg Gln Gln Leu Asn Glu Met Leu Lys Asp Ser Thr
 2570 2575 2580
 Gln Trp Leu Glu Ala Lys Glu Glu Ala Glu Gln Val Leu Gly Gln
 2585 2590 2595
 Ala Arg Ala Lys Leu Glu Ser Trp Lys Glu Gly Pro Tyr Thr Val
 2600 2605 2610
 Asp Ala Ile Gln Lys Lys Ile Thr Glu Thr Lys Gln Leu Ala Lys
 2615 2620 2625
 Asp Leu Arg Gln Trp Gln Thr Asn Val Asp Val Ala Asn Asp Leu
 2630 2635 2640
 Ala Leu Lys Leu Leu Arg Asp Tyr Ser Ala Asp Asp Thr Arg Lys
 2645 2650 2655
 Val His Met Ile Thr Glu Asn Ile Asn Ala Ser Trp Arg Ser Ile
 2660 2665 2670
 His Lys Arg Val Ser Glu Arg Glu Ala Ala Leu Glu Glu Thr His
 2675 2680 2685
 Arg Leu Leu Gln Gln Phe Pro Leu Asp Leu Glu Lys Phe Leu Ala
 2690 2695 2700
 Trp Leu Thr Glu Ala Glu Thr Thr Ala Asn Val Leu Gln Asp Ala
 2705 2710 2715
 Thr Arg Lys Glu Arg Leu Leu Glu Asp Ser Lys Gly Val Lys Glu
 2720 2725 2730
 Leu Met Lys Gln Trp Gln Asp Leu Gln Gly Glu Ile Glu Ala His
 2735 2740 2745
 Thr Asp Val Tyr His Asn Leu Asp Glu Asn Ser Gln Lys Ile Leu
 2750 2755 2760
 Arg Ser Leu Glu Gly Ser Asp Asp Ala Val Leu Leu Gln Arg Arg
 2765 2770 2775
 Leu Asp Asn Met Asn Phe Lys Trp Ser Glu Leu Arg Lys Lys Ser
 2780 2785 2790
 Leu Asn Ile Arg Ser His Leu Glu Ala Ser Ser Asp Gln Trp Lys
 2795 2800 2805
 Arg Leu His Leu Ser Leu Gln Glu Leu Leu Val Trp Leu Gln Leu

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Pro Ala 2840	Val Gln Lys Gln Asn 2845	Asp Val His Arg Ala 2850 Phe Lys Arg
Glu Leu 2855	Lys Thr Lys Glu Pro 2860	Val Ile Met Ser Thr 2865 Leu Glu Thr
Val Arg 2870	Ile Phe Leu Thr Glu 2875	Gln Pro Leu Glu Gly 2880 Leu Glu Lys
Leu Tyr 2885	Gln Glu Pro Arg Glu 2890	Leu Pro Pro Glu Glu 2895 Arg Ala Gln
Asn Val 2900	Thr Arg Leu Leu Arg 2905	Lys Gln Ala Glu Glu 2910 Val Asn Thr
Glu Trp 2915	Glu Lys Leu Asn Leu 2920	His Ser Ala Asp Trp 2925 Gln Arg Lys
Ile Asp 2930	Glu Thr Leu Glu Arg 2935	Leu Gln Glu Leu Gln 2940 Glu Ala Thr
Asp Glu 2945	Leu Asp Leu Lys Leu 2950	Arg Gln Ala Glu Val 2955 Ile Lys Gly
Ser Trp 2960	Gln Pro Val Gly Asp 2965	Leu Leu Ile Asp Ser 2970 Leu Gln Asp
His Leu 2975	Glu Lys Val Lys Ala 2980	Leu Arg Gly Glu Ile 2985 Ala Pro Leu
Lys Glu 2990	Asn Val Ser His Val 2995	Asn Asp Leu Ala Arg 3000 Gln Leu Thr
Thr Leu 3005	Gly Ile Gln Leu Ser 3010	Pro Tyr Asn Leu Ser 3015 Thr Leu Glu
Asp Leu 3020	Asn Thr Arg Trp Lys 3025	Leu Leu Gln Val Ala 3030 Val Glu Asp
Arg Val 3035	Arg Gln Leu His Glu 3040	Ala His Arg Asp Phe 3045 Gly Pro Ala
Ser Gln 3050	His Phe Leu Ser Thr 3055	Ser Val Gln Gly Pro 3060 Trp Glu Arg
Ala Ile 3065	Ser Pro Asn Lys Val 3070	Pro Tyr Tyr Ile Asn 3075 His Glu Thr

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Gln	Thr	Thr	Cys	Trp	Asp	His	Pro	Lys	Met	Thr	Glu	Leu	Tyr	Gln
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	3095					3100					3105			
Ala	Met	Lys	Leu	Arg	Arg	Leu	Gln	Lys	Ala	Leu	Cys	Leu	Asp	Leu
	3110					3115					3120			
Leu	Ser	Leu	Ser	Ala	Ala	Cys	Asp	Ala	Leu	Asp	Gln	His	Asn	Leu
	3125					3130					3135			
Lys	Gln	Asn	Asp	Gln	Pro	Met	Asp	Ile	Leu	Gln	Ile	Ile	Asn	Cys
	3140					3145					3150			
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