

SEQUENCE LISTING

<110> Spiber Inc.

<120> A composition of meat substitute

<130> 19PS074W01

<160> 6

<170> PatentIn version 3.5

<210> 1

<211> 2375

<212> PRT

<213> Artificial Sequence

<220>

<223> PRT799

<400> 1

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Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Gln
20 25 30

Asn Gly Pro Gly Ser Gly Gln Gln Gly Pro Gly Gln Ser Gly Gln Tyr
35 40 45

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

Ala Ala Ala Ala Gly Pro Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro
65 70 75 80

Ser Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Gln Gln Gly
85 90 95

Pro Gly Ala Ser Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln
100 105 110

Gln Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly Gln Tyr Gly Ser
115 120 125

Gly Pro Gly Gln Gln Gly Pro Tyr Gly Ser Ala Ala Ala Ala Gly
130 135 140

Pro Gly Ser Gly Gln Tyr Gly Gln Gly Pro Tyr Gly Pro Gly Ala Ser
145 150 155 160

Gly Pro Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala
165 170 175



Ala Ala Ala Ala Gly Ser Gly Gln Gln Gly Pro Gly Gln Tyr Gly Pro
 180 185 190

Tyr Ala Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro Gly
 195 200 205

Gln Gln Gly Pro Tyr Gly Pro Gly Gln Ser Gly Ser Gly Gln Gln Gly
 210 215 220

Pro Gly Gln Gln Gly Pro Tyr Ala Ser Ala Ala Ala Ala Gly Pro
 225 230 235 240

Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala
 245 250 255

Gly Gln Tyr Gly Tyr Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly
 260 265 270

Ala Ser Gly Gln Asn Gly Pro Gly Ser Gly Gln Tyr Gly Pro Gly Gln
 275 280 285

Gln Gly Pro Gly Gln Ser Ala Ala Ala Ala Ala Gly Pro Gly Gln Gln
 290 295 300

Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Gln Tyr
 305 310 315 320

Gly Pro Gly Gln Gln Gly Pro Gly Gln Tyr Gly Pro Gly Ser Ser Gly
 325 330 335

Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala
 340 345 350

Ala Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gln
 355 360 365

Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gln Gln Gly Pro Gly Gln Gln
 370 375 380

Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly Gln Gln Gly Pro Tyr
 385 390 395 400

Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Pro Gly Gln Tyr Gly
 405 410 415

Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly Gln
 420 425 430



Tyr Gly Ser Gly Pro Gly Gln Tyr Gly Pro Tyr Gly Pro Gly Gln Ser
 435 440 445

Gly Pro Gly Ser Gly Gln Gln Gly Gln Gly Pro Tyr Gly Pro Gly Ala
 450 455 460

Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro
 465 470 475 480

Tyr Gly Pro Gly Gln Ser Ala Ala Ala Ala Gly Pro Gly Ser Gly
 485 490 495

Gln Tyr Gly Pro Gly Ala Ser Gly Gln Asn Gly Pro Gly Ser Gly Gln
 500 505 510

Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln Ser Ala Ala Ala Ala Ala
 515 520 525

Gly Gln Tyr Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly
 530 535 540

Ala Ser Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro Gly Gln
 545 550 555 560

Gln Gly Pro Tyr Gly Pro Gly Gln Ser Gly Ser Gly Gln Gln Gly Pro
 565 570 575

Gly Gln Gln Gly Pro Tyr Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly
 580 585 590

Ser Gly Gln Gln Gly Pro Gly Ala Ser Gly Gln Gln Gly Pro Tyr Gly
 595 600 605

Pro Gly Ala Ser Ala Ala Ala Ala Gly Gln Asn Gly Pro Gly Ser
 610 615 620

Gly Gln Gln Gly Pro Gly Gln Ser Gly Gln Tyr Gly Pro Gly Gln Gln
 625 630 635 640

Gly Pro Gly Gln Gln Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly
 645 650 655

Pro Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala
 660 665 670

Ala Ala Ala Gly Pro Gly Ser Gly Gln Gln Gly Pro Gly Ala Ser Gly
 675 680 685



Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln Gln Gly Pro Gly Ser
690 695 700

Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro Gly Gln Gln
705 710 715 720

Gly Pro Tyr Gly Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Gln
725 730 735

Tyr Gly Gln Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly Gln Tyr
740 745 750

Gly Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly
755 760 765

Ser Gly Gln Gln Gly Pro Gly Gln Tyr Gly Pro Tyr Ala Ser Ala Ala
770 775 780

Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro Gly Gln Gln Gly Pro Tyr
785 790 795 800

Gly Pro Gly Gln Ser Gly Ser Gly Gln Gln Gly Pro Gly Gln Gln Gly
805 810 815

Pro Tyr Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Gln Gln Gly Pro
820 825 830

Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Tyr
835 840 845

Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ala Ser Gly Gln Asn
850 855 860

Gly Pro Gly Ser Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln
865 870 875 880

Ser Ala Ala Ala Ala Ala Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro
885 890 895

Gly Ala Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Pro Gly Gln Gln
900 905 910

Gly Pro Gly Gln Tyr Gly Pro Gly Ser Ser Gly Pro Gly Gln Gln Gly
915 920 925

Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly
930 935 940

Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gln Ser Ala Ala Ala Ala



945 950 955 960

Ala Gly Gln Tyr Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro
965 970 975

Gly Ala Ser Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ala Ser
980 985 990

Ala Ala Ala Ala Ala Gly Pro Gly Gln Tyr Gly Pro Gly Gln Gln Gly
995 1000 1005

Pro Ser Ala Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly
1010 1015 1020

Pro Gly Gln Tyr Gly Pro Tyr Gly Pro Gly Gln Ser Gly Pro Gly
1025 1030 1035

Ser Gly Gln Gln Gly Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala
1040 1045 1050

Ala Ala Ala Ala Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Tyr
1055 1060 1065

Gly Pro Gly Gln Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly
1070 1075 1080

Gln Tyr Gly Pro Gly Ala Ser Gly Gln Asn Gly Pro Gly Ser Gly
1085 1090 1095

Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln Ser Ala Ala Ala
1100 1105 1110

Ala Ala Gly Gln Tyr Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr
1115 1120 1125

Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Ser
1130 1135 1140

Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gln Ser Gly Ser
1145 1150 1155

Gly Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr Ala Ser Ala Ala
1160 1165 1170

Ala Ala Ala Gly Pro Gly Ser Gly Gln Gln Gly Pro Gly Ala Ser
1175 1180 1185

Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala
1190 1195 1200



Ala Gly Gln Asn Gly Pro Gly Ser Gly Gln Gln Gly Pro Gly Gln
1205 1210 1215

Ser Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln Gln Gly
1220 1225 1230

Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Pro Gly Gln Tyr Gly
1235 1240 1245

Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala Ala Gly
1250 1255 1260

Pro Gly Ser Gly Gln Gln Gly Pro Gly Ala Ser Gly Gln Tyr Gly
1265 1270 1275

Pro Gly Gln Gln Gly Pro Gly Gln Gln Gly Pro Gly Ser Ser Ala
1280 1285 1290

Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro Gly Gln Gln Gly
1295 1300 1305

Pro Tyr Gly Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Gln
1310 1315 1320

Tyr Gly Gln Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly Gln
1325 1330 1335

Tyr Gly Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala
1340 1345 1350

Ala Gly Ser Gly Gln Gln Gly Pro Gly Gln Tyr Gly Pro Tyr Ala
1355 1360 1365

Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro Gly Gln
1370 1375 1380

Gln Gly Pro Tyr Gly Pro Gly Gln Ser Gly Ser Gly Gln Gln Gly
1385 1390 1395

Pro Gly Gln Gln Gly Pro Tyr Ala Ser Ala Ala Ala Ala Ala Gly
1400 1405 1410

Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala
1415 1420 1425

Ala Ala Gly Gln Tyr Gly Tyr Gly Pro Gly Gln Gln Gly Pro Tyr
1430 1435 1440



Gly	Pro	Gly	Ala	Ser	Gly	Gln	Asn	Gly	Pro	Gly	Ser	Gly	Gln	Tyr
1445						1450					1455			
Gly	Pro	Gly	Gln	Gln	Gly	Pro	Gly	Gln	Ser	Ala	Ala	Ala	Ala	Ala
1460						1465					1470			
Gly	Pro	Gly	Gln	Gln	Gly	Pro	Tyr	Gly	Pro	Gly	Ala	Ser	Ala	Ala
1475						1480					1485			
Ala	Ala	Ala	Gly	Gln	Tyr	Gly	Pro	Gly	Gln	Gln	Gly	Pro	Gly	Gln
1490						1495					1500			
Tyr	Gly	Pro	Gly	Ser	Ser	Gly	Pro	Gly	Gln	Gln	Gly	Pro	Tyr	Gly
1505						1510					1515			
Pro	Gly	Ser	Ser	Ala	Ala	Ala	Ala	Ala	Gly	Gln	Tyr	Gly	Pro	Gly
1520						1525					1530			
Gln	Gln	Gly	Pro	Tyr	Gly	Pro	Gly	Gln	Ser	Ala	Ala	Ala	Ala	Ala
1535						1540					1545			
Gly	Gln	Tyr	Gln	Gln	Gly	Pro	Gly	Gln	Gln	Gly	Pro	Tyr	Gly	Pro
1550						1555					1560			
Gly	Ala	Ser	Gly	Pro	Gly	Gln	Gln	Gly	Pro	Tyr	Gly	Pro	Gly	Ala
1565						1570					1575			
Ser	Ala	Ala	Ala	Ala	Ala	Gly	Pro	Gly	Gln	Tyr	Gly	Pro	Gly	Gln
1580						1585					1590			
Gln	Gly	Pro	Ser	Ala	Ser	Ala	Ala	Ala	Ala	Ala	Gly	Gln	Tyr	Gly
1595						1600					1605			
Ser	Gly	Pro	Gly	Gln	Tyr	Gly	Pro	Tyr	Gly	Pro	Gly	Gln	Ser	Gly
1610						1615					1620			
Pro	Gly	Ser	Gly	Gln	Gln	Gly	Gln	Gly	Pro	Tyr	Gly	Pro	Gly	Ala
1625						1630					1635			
Ser	Ala	Ala	Ala	Ala	Ala	Gly	Gln	Tyr	Gly	Pro	Gly	Gln	Gln	Gly
1640						1645					1650			
Pro	Tyr	Gly	Pro	Gly	Gln	Ser	Ala	Ala	Ala	Ala	Ala	Gly	Pro	Gly
1655						1660					1665			
Ser	Gly	Gln	Tyr	Gly	Pro	Gly	Ala	Ser	Gly	Gln	Asn	Gly	Pro	Gly
1670						1675					1680			



Ser Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln Ser Ala
1685 1690 1695

Ala Ala Ala Ala Gly Gln Tyr Gln Gln Gly Pro Gly Gln Gln Gly
1700 1705 1710

Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Gln Tyr
1715 1720 1725

Gly Ser Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gln Ser
1730 1735 1740

Gly Ser Gly Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr Ala Ser
1745 1750 1755

Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Gln Gln Gly Pro Gly
1760 1765 1770

Ala Ser Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala
1775 1780 1785

Ala Ala Ala Gly Gln Asn Gly Pro Gly Ser Gly Gln Gln Gly Pro
1790 1795 1800

Gly Gln Ser Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln
1805 1810 1815

Gln Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Pro Gly Gln
1820 1825 1830

Tyr Gly Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala
1835 1840 1845

Ala Gly Pro Gly Ser Gly Gln Gln Gly Pro Gly Ala Ser Gly Gln
1850 1855 1860

Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln Gln Gly Pro Gly Ser
1865 1870 1875

Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro Gly Gln
1880 1885 1890

Gln Gly Pro Tyr Gly Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser
1895 1900 1905

Gly Gln Tyr Gly Gln Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro
1910 1915 1920

Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala



1925	1930	1935
Ala Ala Ala Gly Ser Gly Gln Gln Gly Pro Gly Gln Tyr Gly Pro 1940	1945	1950
Tyr Ala Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Ser Gly Pro 1955	1960	1965
Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gln Ser Gly Ser Gly Gln 1970	1975	1980
Gln Gly Pro Gly Gln Gln Gly Pro Tyr Ala Ser Ala Ala Ala Ala 1985	1990	1995
Ala Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ser Ser Ala 2000	2005	2010
Ala Ala Ala Ala Gly Gln Tyr Gly Tyr Gly Pro Gly Gln Gln Gly 2015	2020	2025
Pro Tyr Gly Pro Gly Ala Ser Gly Gln Asn Gly Pro Gly Ser Gly 2030	2035	2040
Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln Ser Ala Ala Ala 2045	2050	2055
Ala Ala Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Ala Ser 2060	2065	2070
Ala Ala Ala Ala Ala Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro 2075	2080	2085
Gly Gln Tyr Gly Pro Gly Ser Ser Gly Pro Gly Gln Gln Gly Pro 2090	2095	2100
Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly Gln Tyr Gly 2105	2110	2115
Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gln Ser Ala Ala Ala 2120	2125	2130
Ala Ala Gly Gln Tyr Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr 2135	2140	2145
Gly Pro Gly Ala Ser Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro 2150	2155	2160
Gly Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Gln Tyr Gly Pro 2165	2170	2175



Gly Gln Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala Ala Gly Gln
2180 2185 2190

Tyr Gly Ser Gly Pro Gly Gln Tyr Gly Pro Tyr Gly Pro Gly Gln
2195 2200 2205

Ser Gly Pro Gly Ser Gly Gln Gln Gly Gln Gly Pro Tyr Gly Pro
2210 2215 2220

Gly Ala Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gly Pro Gly Gln
2225 2230 2235

Gln Gly Pro Tyr Gly Pro Gly Gln Ser Ala Ala Ala Ala Ala Gly
2240 2245 2250

Pro Gly Ser Gly Gln Tyr Gly Pro Gly Ala Ser Gly Gln Asn Gly
2255 2260 2265

Pro Gly Ser Gly Gln Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gln
2270 2275 2280

Ser Ala Ala Ala Ala Ala Gly Gln Tyr Gln Gln Gly Pro Gly Gln
2285 2290 2295

Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly
2300 2305 2310

Gln Tyr Gly Ser Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly
2315 2320 2325

Gln Ser Gly Ser Gly Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr
2330 2335 2340

Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Gln Gln Gly
2345 2350 2355

Ser Ser Val Asp Lys Leu Ala Ala Ala Leu Glu His His His His
2360 2365 2370

His His
2375

<210> 2
<211> 1190
<212> PRT
<213> Artificial Sequence

<220>
<223> PRT966



<400> 2

Met His His His His His Ser Ser Gly Ser Ser Gly Pro Gly Val
1 5 10 15

Phe Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Ile
20 25 30

Asn Gly Pro Gly Ser Gly Val Phe Gly Pro Gly Ile Ser Gly Ile Tyr
35 40 45

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

Ala Ala Ala Ala Gly Pro Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro
65 70 75 80

Ser Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Val Phe Gly
85 90 95

Pro Gly Ala Ser Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Gly Val
100 105 110

Phe Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly Ile Tyr Gly Ser
115 120 125

Gly Pro Gly Val Phe Gly Pro Tyr Gly Ser Ala Ala Ala Ala Gly
130 135 140

Pro Gly Ser Gly Ile Tyr Gly Ile Gly Pro Tyr Gly Pro Gly Ala Ser
145 150 155 160

Gly Pro Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Ser Ala Ser Ala
165 170 175

Ala Ala Ala Ala Gly Ser Gly Val Phe Gly Pro Gly Ile Tyr Gly Pro
180 185 190

Tyr Ala Ser Ala Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly
195 200 205

Val Phe Gly Pro Tyr Gly Pro Gly Ile Ser Gly Ser Gly Val Phe Gly
210 215 220

Pro Gly Val Phe Gly Pro Tyr Ala Ser Ala Ala Ala Ala Gly Pro
225 230 235 240

Gly Val Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala
245 250 255



Gly Ile Tyr Gly Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly
 260 265 270

Ala Ser Gly Ile Asn Gly Pro Gly Ser Gly Ile Tyr Gly Pro Gly Val
 275 280 285

Phe Gly Pro Gly Ile Ser Ala Ala Ala Ala Ala Gly Pro Gly Val Phe
 290 295 300

Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Ile Tyr
 305 310 315 320

Gly Pro Gly Val Phe Gly Pro Gly Ile Tyr Gly Pro Gly Ser Ser Gly
 325 330 335

Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala
 340 345 350

Ala Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ile
 355 360 365

Ser Ala Ala Ala Ala Ala Gly Ile Tyr Val Phe Gly Pro Gly Val Phe
 370 375 380

Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly Val Phe Gly Pro Tyr
 385 390 395 400

Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Ile Tyr Gly
 405 410 415

Pro Gly Val Phe Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly Ile
 420 425 430

Tyr Gly Ser Gly Pro Gly Ile Tyr Gly Pro Tyr Gly Pro Gly Ile Ser
 435 440 445

Gly Pro Gly Ser Gly Val Phe Gly Ile Gly Pro Tyr Gly Pro Gly Ala
 450 455 460

Ser Ala Ala Ala Ala Ala Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro
 465 470 475 480

Tyr Gly Pro Gly Ile Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly
 485 490 495

Ile Tyr Gly Pro Gly Ala Ser Gly Ile Asn Gly Pro Gly Ser Gly Ile
 500 505 510



Tyr Gly Pro Gly Val Phe Gly Pro Gly Ile Ser Ala Ala Ala Ala Ala
515 520 525

Gly Ile Tyr Val Phe Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly
530 535 540

Ala Ser Ala Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly Val
545 550 555 560

Phe Gly Pro Tyr Gly Pro Gly Ile Ser Gly Ser Gly Val Phe Gly Pro
565 570 575

Gly Val Phe Gly Pro Tyr Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly
580 585 590

Ser Gly Val Phe Gly Pro Gly Ala Ser Gly Pro Gly Val Phe Gly Pro
595 600 605

Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Ile Asn Gly Pro
610 615 620

Gly Ser Gly Val Phe Gly Pro Gly Ile Ser Gly Ile Tyr Gly Pro Gly
625 630 635 640

Val Phe Gly Pro Gly Val Phe Gly Pro Gly Ser Ser Ala Ala Ala Ala
645 650 655

Ala Gly Pro Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Ser Ala Ser
660 665 670

Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Val Phe Gly Pro Gly Ala
675 680 685

Ser Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Gly Val Phe Gly Pro
690 695 700

Gly Ser Ser Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly
705 710 715 720

Val Phe Gly Pro Tyr Gly Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser
725 730 735

Gly Ile Tyr Gly Ile Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly
740 745 750

Ile Tyr Gly Pro Gly Val Phe Gly Pro Ser Ala Ser Ala Ala Ala Ala
755 760 765



Ala Gly Ser Gly Val Phe Gly Pro Gly Ile Tyr Gly Pro Tyr Ala Ser
770 775 780

Ala Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly Val Phe Gly
785 790 795 800

Pro Tyr Gly Pro Gly Ile Ser Gly Ser Gly Val Phe Gly Pro Gly Val
805 810 815

Phe Gly Pro Tyr Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Val Phe
820 825 830

Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Ile Tyr
835 840 845

Gly Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ala Ser Gly
850 855 860

Ile Asn Gly Pro Gly Ser Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro
865 870 875 880

Gly Ile Ser Ala Ala Ala Ala Gly Pro Gly Val Phe Gly Pro Tyr
885 890 895

Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Ile Tyr Gly Pro Gly
900 905 910

Val Phe Gly Pro Gly Ile Tyr Gly Pro Gly Ser Ser Gly Pro Gly Val
915 920 925

Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Ile
930 935 940

Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ile Ser Ala Ala
945 950 955 960

Ala Ala Ala Gly Ile Tyr Val Phe Gly Pro Gly Val Phe Gly Pro Tyr
965 970 975

Gly Pro Gly Ala Ser Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly
980 985 990

Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Ile Tyr Gly Pro Gly Val
995 1000 1005

Phe Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly Ile Tyr Gly
1010 1015 1020

Ser Gly Pro Gly Ile Tyr Gly Pro Tyr Gly Pro Gly Ile Ser Gly



1025

1030

1035

Pro Gly Ser Gly Val Phe Gly Ile Gly Pro Tyr Gly Pro Gly Ala
 1040 1045 1050

Ser Ala Ala Ala Ala Gly Ile Tyr Gly Pro Gly Val Phe Gly
 1055 1060 1065

Pro Tyr Gly Pro Gly Ile Ser Ala Ala Ala Ala Ala Gly Pro Gly
 1070 1075 1080

Ser Gly Ile Tyr Gly Pro Gly Ala Ser Gly Ile Asn Gly Pro Gly
 1085 1090 1095

Ser Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Gly Ile Ser Ala
 1100 1105 1110

Ala Ala Ala Ala Gly Ile Tyr Val Phe Gly Pro Gly Val Phe Gly
 1115 1120 1125

Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Ile Tyr
 1130 1135 1140

Gly Ser Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ile Ser
 1145 1150 1155

Gly Ser Gly Val Phe Gly Pro Gly Val Phe Gly Pro Tyr Ala Ser
 1160 1165 1170

Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Val Phe Gly Pro Gly
 1175 1180 1185

Ala Ser
 1190

<210> 3

<211> 601

<212> PRT

<213> Artificial Sequence

<220>

<223> PRT918

<400> 3

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Phe Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Ile
 20 25 30



Asn Gly Pro Gly Ser Gly Val Phe Gly Pro Gly Ile Ser Gly Ile Tyr
35 40 45

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

Ala Ala Ala Ala Gly Pro Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro
65 70 75 80

Ser Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Val Phe Gly
85 90 95

Pro Gly Ala Ser Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Gly Val
100 105 110

Phe Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly Ile Tyr Gly Ser
115 120 125

Gly Pro Gly Val Phe Gly Pro Tyr Gly Ser Ala Ala Ala Ala Gly
130 135 140

Pro Gly Ser Gly Ile Tyr Gly Ile Gly Pro Tyr Gly Pro Gly Ala Ser
145 150 155 160

Gly Pro Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Ser Ala Ser Ala
165 170 175

Ala Ala Ala Ala Gly Ser Gly Val Phe Gly Pro Gly Ile Tyr Gly Pro
180 185 190

Tyr Ala Ser Ala Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly
195 200 205

Val Phe Gly Pro Tyr Gly Pro Gly Ile Ser Gly Ser Gly Val Phe Gly
210 215 220

Pro Gly Val Phe Gly Pro Tyr Ala Ser Ala Ala Ala Ala Gly Pro
225 230 235 240

Gly Val Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala
245 250 255

Gly Ile Tyr Gly Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly
260 265 270

Ala Ser Gly Ile Asn Gly Pro Gly Ser Gly Ile Tyr Gly Pro Gly Val
275 280 285

Phe Gly Pro Gly Ile Ser Ala Ala Ala Ala Gly Pro Gly Val Phe



290

295

300

Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Ile Tyr
 305 310 315 320

Gly Pro Gly Val Phe Gly Pro Gly Ile Tyr Gly Pro Gly Ser Ser Gly
 325 330 335

Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala
 340 345 350

Ala Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ile
 355 360 365

Ser Ala Ala Ala Ala Ala Gly Ile Tyr Val Phe Gly Pro Gly Val Phe
 370 375 380

Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly Val Phe Gly Pro Tyr
 385 390 395 400

Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Pro Gly Ile Tyr Gly
 405 410 415

Pro Gly Val Phe Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly Ile
 420 425 430

Tyr Gly Ser Gly Pro Gly Ile Tyr Gly Pro Tyr Gly Pro Gly Ile Ser
 435 440 445

Gly Pro Gly Ser Gly Val Phe Gly Ile Gly Pro Tyr Gly Pro Gly Ala
 450 455 460

Ser Ala Ala Ala Ala Ala Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro
 465 470 475 480

Tyr Gly Pro Gly Ile Ser Ala Ala Ala Ala Gly Pro Gly Ser Gly
 485 490 495

Ile Tyr Gly Pro Gly Ala Ser Gly Ile Asn Gly Pro Gly Ser Gly Ile
 500 505 510

Tyr Gly Pro Gly Val Phe Gly Pro Gly Ile Ser Ala Ala Ala Ala Ala
 515 520 525

Gly Ile Tyr Val Phe Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly
 530 535 540

Ala Ser Ala Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly Val
 545 550 555 560



Phe Gly Pro Tyr Gly Pro Gly Ile Ser Gly Ser Gly Val Phe Gly Pro
 565 570 575

Gly Val Phe Gly Pro Tyr Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly
 580 585 590

Ser Gly Val Phe Gly Pro Gly Ala Ser
 595 600

<210> 4
 <211> 608
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> PRT313

<400> 4

Met His His His His His His Ser Ser Gly Ser Ser Gly Pro Gly Gly
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Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Gly
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Asn Gly Pro Gly Ser Gly Gln Gln Gly Pro Gly Gly Ser Ala Ala Ala
 35 40 45

Ala Ala Gly Gly Tyr Gly Pro Gly Gly Gln Gly Pro Gly Gln Gln Gly
 50 55 60

Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Pro Gly Gly Tyr Gly Pro
 65 70 75 80

Gly Gly Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly Pro Gly
 85 90 95

Ser Gly Gln Gln Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Gly
 100 105 110

Tyr Gly Pro Gly Gly Gln Gly Pro Gly Gln Gln Gly Pro Gly Ser Ser
 115 120 125

Ala Ala Ala Ala Ala Gly Gly Tyr Gly Ser Gly Pro Gly Gln Gln Gly
 130 135 140

Pro Tyr Gly Ser Ala Ala Ala Ala Gly Pro Gly Ser Gly Gly Tyr
 145 150 155 160

Gly Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly



165

170

175

Pro Gly Gly Tyr Gly Pro Gly Gly Gln Gly Pro Ser Ala Ser Ala Ala
180 185 190

Ala Ala Ala Gly Ser Gly Gln Gln Gly Pro Gly Gly Tyr Gly Pro Tyr
195 200 205

Ala Ser Ala Ala Ala Ala Ala Gly Gly Tyr Gly Ser Gly Pro Gly Gln
210 215 220

Gln Gly Pro Tyr Gly Pro Gly Gly Ser Ala Ala Ala Ala Gly Ser
225 230 235 240

Gly Gln Gln Gly Pro Gly Gln Gln Gly Pro Tyr Ala Ser Ala Ala Ala
245 250 255

Ala Ala Gly Pro Gly Gly Gln Gly Pro Tyr Gly Pro Gly Ser Ser Ala
260 265 270

Ala Ala Ala Ala Gly Gly Tyr Gly Tyr Gly Pro Gly Gly Gln Gly Pro
275 280 285

Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Gly Asn Gly Pro
290 295 300

Gly Ser Gly Gly Tyr Gly Pro Gly Gln Gln Gly Pro Gly Gly Ser Ala
305 310 315 320

Ala Ala Ala Ala Gly Pro Gly Gly Gln Gly Pro Tyr Gly Pro Gly Ala
325 330 335

Ser Ala Ala Ala Ala Ala Gly Gly Tyr Gly Pro Gly Gly Gln Gly Pro
340 345 350

Gly Gly Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly Pro Gly
355 360 365

Gly Gln Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly
370 375 380

Gly Tyr Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gly Ser Ala
385 390 395 400

Ala Ala Ala Ala Gly Gly Tyr Gln Gln Gly Pro Gly Gly Gln Gly Pro
405 410 415

Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Pro Gly Gly Gln
420 425 430



Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Pro Gly
435 440 445

Gly Tyr Gly Pro Gly Gly Gln Gly Pro Ser Ala Ser Ala Ala Ala Ala
450 455 460

Ala Gly Gly Tyr Gly Ser Gly Pro Gly Gly Tyr Gly Pro Tyr Gly Pro
465 470 475 480

Gly Gly Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Gln Gln Gly
485 490 495

Gln Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Ala Gly Gly
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Tyr Gly Pro Gly Gln Gln Gly Pro Tyr Gly Pro Gly Gly Ser Ala Ala
515 520 525

Ala Ala Ala Gly Pro Gly Ser Gly Gly Tyr Gly Pro Gly Ala Ser Ala
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Ala Ala Ala Ala Gly Gly Asn Gly Pro Gly Ser Gly Gly Tyr Gly Pro
545 550 555 560

Gly Gln Gln Gly Pro Gly Gly Ser Ala Ala Ala Ala Ala Gly Gly Tyr
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Asn Gly Pro Gly Ser Gly Val Phe Gly Pro Gly Ile Ser Ala Ala Ala



35

40

45

Ala Ala Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Gly Val Phe Gly
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Pro Gly Ser Ser Ala Ala Ala Ala Ala Gly Pro Gly Ile Tyr Gly Pro
65 70 75 80

Gly Val Phe Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly Pro Gly
85 90 95

Ser Gly Val Phe Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Ile
100 105 110

Tyr Gly Pro Gly Val Phe Gly Pro Gly Val Phe Gly Pro Gly Ser Ser
115 120 125

Ala Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly Val Phe Gly
130 135 140

Pro Tyr Gly Ser Ala Ala Ala Ala Gly Pro Gly Ser Gly Ile Tyr
145 150 155 160

Gly Ile Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly
165 170 175

Pro Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Ser Ala Ser Ala Ala
180 185 190

Ala Ala Ala Gly Ser Gly Val Phe Gly Pro Gly Ile Tyr Gly Pro Tyr
195 200 205

Ala Ser Ala Ala Ala Ala Gly Ile Tyr Gly Ser Gly Pro Gly Val
210 215 220

Phe Gly Pro Tyr Gly Pro Gly Ile Ser Ala Ala Ala Ala Gly Ser
225 230 235 240

Gly Val Phe Gly Pro Gly Val Phe Gly Pro Tyr Ala Ser Ala Ala Ala
245 250 255

Ala Ala Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala
260 265 270

Ala Ala Ala Ala Gly Ile Tyr Gly Tyr Gly Pro Gly Val Phe Gly Pro
275 280 285

Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Ile Asn Gly Pro
290 295 300



Gly Ser Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro Gly Ile Ser Ala
 305 310 315 320

Ala Ala Ala Ala Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ala
 325 330 335

Ser Ala Ala Ala Ala Ala Gly Ile Tyr Gly Pro Gly Val Phe Gly Pro
 340 345 350

Gly Ile Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly Pro Gly
 355 360 365

Val Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly
 370 375 380

Ile Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ile Ser Ala
 385 390 395 400

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Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Pro Gly Val Phe
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Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Pro Gly
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Ile Tyr Gly Pro Gly Val Phe Gly Pro Ser Ala Ser Ala Ala Ala
 450 455 460

Ala Gly Ile Tyr Gly Ser Gly Pro Gly Ile Tyr Gly Pro Tyr Gly Pro
 465 470 475 480

Gly Ile Ser Ala Ala Ala Ala Gly Pro Gly Ser Gly Val Phe Gly
 485 490 495

Ile Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Ile
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Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ile Ser Ala Ala
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Ala Ala Ala Gly Pro Gly Ser Gly Ile Tyr Gly Pro Gly Ala Ser Ala
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Ala Ala Ala Ala Gly Ile Asn Gly Pro Gly Ser Gly Ile Tyr Gly Pro
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Gly Val Phe Gly Pro Gly Ile Ser Ala Ala Ala Ala Gly Ile Tyr
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35 40 45

Leu Ile Tyr Gly Pro Gly Val Phe Gly Pro Gly Val Phe Gly Pro Gly
50 55 60

Ser Ser Ala Ala Ala Ala Ala Gly Pro Gly Leu Ile Tyr Gly Pro Gly
65 70 75 80

Val Phe Gly Pro Ser Ala Ser Ala Ala Ala Ala Gly Pro Gly Ser
85 90 95

Gly Val Phe Gly Pro Gly Ala Ser Gly Leu Ile Tyr Gly Pro Gly Val
100 105 110

Phe Gly Pro Gly Val Phe Gly Pro Gly Ser Ser Ala Ala Ala Ala Ala
115 120 125

Gly Leu Ile Tyr Gly Ser Gly Pro Gly Val Phe Gly Pro Tyr Gly Ser
130 135 140

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

Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly Leu Ile Tyr Gly Pro
165 170 175



Gly Val Phe Gly Pro Ser Ala Ser Ala Ala Ala Ala Ala Gly Ser Gly
 180 185 190

Val Phe Gly Pro Gly Leu Ile Tyr Gly Pro Tyr Ala Ser Ala Ala Ala
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Ala Ala Gly Leu Ile Tyr Gly Ser Gly Pro Gly Val Phe Gly Pro Tyr
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Gly Pro Gly Leu Ile Ser Gly Ser Gly Val Phe Gly Pro Gly Val Phe
 225 230 235 240

Gly Pro Tyr Ala Ser Ala Ala Ala Ala Gly Pro Gly Val Phe Gly
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Pro Tyr Gly Pro Gly Ser Ser Ala Ala Ala Ala Gly Leu Ile Tyr
 260 265 270

Gly Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ala Ser Gly
 275 280 285

Leu Ile Asn Gly Pro Gly Ser Gly Leu Ile Tyr Gly Pro Gly Val Phe
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Gly Pro Gly Leu Ile Ser Ala Ala Ala Ala Gly Pro Gly Val Phe
 305 310 315 320

Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly Leu Ile
 325 330 335

Tyr Gly Pro Gly Val Phe Gly Pro Gly Leu Ile Tyr Gly Pro Gly Ser
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Ser Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ser Ser Ala Ala
 355 360 365

Ala Ala Ala Gly Leu Ile Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly
 370 375 380

Pro Gly Leu Ile Ser Ala Ala Ala Ala Gly Leu Ile Tyr Val Phe
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Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Ala Ser Gly Pro Gly
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Val Phe Gly Pro Tyr Gly Pro Gly Ala Ser Ala Ala Ala Ala Gly
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Pro Gly Leu Ile Tyr Gly Pro Gly Val Phe Gly Pro Ser Ala Ser Ala
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Ala Ala Ala Ala Gly Leu Ile Tyr Gly Ser Gly Pro Gly Leu Ile Tyr
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Gly Pro Tyr Gly Pro Gly Leu Ile Ser Gly Pro Gly Ser Gly Val Phe
 465 470 475 480

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Gly Leu Ile Tyr Gly Pro Gly Val Phe Gly Pro Tyr Gly Pro Gly Leu
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Ile Ser Ala Ala Ala Ala Ala Gly Pro Gly Ser Gly Leu Ile Tyr Gly
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Pro Gly Ala Ser Gly Leu Ile Asn Gly Pro Gly Ser Gly Leu Ile Tyr
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Gly Pro Gly Val Phe Gly Pro Gly Leu Ile Ser Ala Ala Ala Ala Ala
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Gly Ala Ser Ala Ala Ala Ala Ala Gly Leu Ile Tyr Gly Ser Gly Pro
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Gly Val Phe Gly Pro Tyr Gly Pro Gly Leu Ile Ser Gly Ser Gly Val
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Phe Gly Pro Gly Val Phe Gly Pro Tyr Ala Ser Ala Ala Ala Ala Ala
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Gly Pro Gly Ser Gly Val Phe Gly Pro Gly Ala Ser
 625 630 635

