

vc-111864 listado de secuencias
LISTADO DE SECUENCIAS

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Asp	Val	Val	Leu	Tyr	Met	Asp	Pro	Met	Cys	Leu	Asp	Ala	Phe	Pro	Lys
			165						170					175	
Leu	Val	Cys	Phe	Lys	Lys	Arg	Ile	Glu	Ala	Ile	Pro	Gln	Ile	Asp	Lys
		180						185					190		
Tyr	Leu	Lys	Ser	Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln
	195						200					205			
Ala	Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Gln	Ile	Thr
	210					215					220				
Ser	Leu	Tyr	Lys	Lys	Ala	Gly	Ser	Asp	Tyr	Asp	Ile	Pro	Thr	Thr	Glu

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225	Asn	Leu	Tyr	Phe	Gln	230	Gly	Asp	Tyr	Lys	Asp	235	Asp	Asp	Asp	Lys	Met	240	Gly
					245							250	Ile	Pro	Ala	Leu	Arg	255	Glu
Glu	His	Gly	Leu	Glu	260	Pro	Glu	Glu	Tyr	Asn	Thr	265	Val	Val	Gln	Lys	Pro	270	Arg
					275							280						285	
Gln	Ile	Leu	Cys	Gln	290	Phe	Ile	Asp	Arg	Ile	Leu	300	Thr	Asp	Val	Asn	Val		
Val	Ala	Val	Glu	Leu	310	Val	Lys	Lys	Thr	Asp	Ser	315	Gln	Pro	Thr	Ser	Val		
305	Met	Leu	Leu	Asp	325	Phe	Ile	Gln	His	Ile	Met	330	Lys	Ser	Ser	Pro	Leu	320	Met
					340							345	Ala	Lys	Gly	Ser	Cys	335	Ile
Phe	Val	Asn	Val	Ser	355	Gly	Ser	His	Glu	Ala	Lys	360	Gly	Ser	Cys	Ile	Glu		
					365							370							
Phe	Ser	Asn	Trp	Ile	375	Ile	Thr	Arg	Leu	Leu	Arg	380	Ile	Ala	Ala	Thr	Pro		
Ser	Cys	His	Leu	Leu	390	His	Lys	Lys	Ile	Cys	Glu	395	Val	Ile	Cys	Ser	Leu		
Leu	Phe	Leu	Phe	Lys	405	Ser	Lys	Ser	Pro	Ala	Ile	410	Phe	Gly	Val	Leu	Thr		
385	Lys	Glu	Leu	Leu	420	Gln	Leu	Phe	Glu	Asp	Leu	425	Val	Tyr	Leu	His	Arg	400	Arg
					435							440						415	
Asn	Val	Met	Gly	His	445	Ala	Val	Glu	Trp	Pro	Val	450	Val	Val	Met	Ser	Arg	430	Phe
					455							460						445	
Leu	Ser	Gln	Leu	Asp	465	Glu	His	Met	Gly	Tyr	Leu	470	Gln	Ser	Ala	Pro	Leu		
					475							485							
Gln	Leu	Met	Ser	Met	485	Gln	Asn	Leu	Glu	Phe	Ile	490	Glu	Val	Thr	Leu	Leu		
Met	Val	Leu	Thr	Arg	495	Ile	Ile	Ala	Ile	Val	Phe	500	Phe	Arg	Arg	Gln	Glu		
465	Leu	Leu	Trp	Gln	505	Ile	Gly	Cys	Val	Leu	Glu	510	Leu	Tyr	Gly	Ser	Pro		
					515							520						495	
Lys	Ile	Lys	Ser	Leu	525	Ala	Ile	Ser	Phe	Leu	Thr	530	Glu	Leu	Phe	Gln	Leu		
					535							540							
Gly	Gly	Leu	Pro	Ala	545	Gln	Pro	Ala	Ser	Thr	Phe	550	Phe	Ser	Ser	Phe	Leu		
					555							560							
Glu	Leu	Leu	Lys	His	565	Leu	Val	Glu	Met	Asp	Thr	570	Gln	Leu	Lys	Leu			
					580							585							
Tyr	Glu	Glu	Pro	Leu	595	Ser	Lys	Leu	Ile	Lys	Thr	600	Leu	Phe	Pro	Phe	Glu		
545	Ala	Glu	Ala	Tyr	605	Arg	Asn	Ile	Glu	Pro	Val	610	Tyr	Leu	Asn	Met	Leu		
					615							620							
Ala	Glu	Ala	Tyr	Arg	625	Val	Met	Phe	Glu	Asp	Gly	630	Val	Leu	Met	Arg	Leu		
					635							640							
Glu	Lys	Leu	Cys	Val	645	Met	Phe	Glu	Asp	Gly	Val	650	Leu	Met	Arg	Tyr	Phe	Leu	
					655							660							
Ser	Asp	Leu	Leu	Lys	665	Ala	Ala	Leu	Cys	His	Leu	670	Gln	Val	Arg	Lys	Val		
					680							685							
Lys	Phe	Val	Pro	Ala	690	Gly	Tyr	Glu	Ser	Ala	Leu	695	Gln	Val	Arg	Lys	Val		
					700							705							
Tyr	Val	Arg	Asn	Ile	710	Cys	Lys	Ala	Leu	Leu	Asp	715	Val	Leu	Gly	Ile	Glu		
625	Val	Asp	Ala	Glu	720	Leu	Leu	Gly	Pro	Leu	Tyr	725	Ala	Ala	Leu	Lys	Met		
					730							735							
Val	Asp	Ala	Glu	Tyr	735	Ile	Ile	Glu	Glu	Ile	Gln	740	Cys	Gln	Thr	Gln	Gln	Glu	
					745							750							
Glu	Ser	Met	Glu	Ile	755	Ile	Glu	Glu	Ile	Gln	Cys	760	Gln	Thr	Gln	Gln	Glu		
					765							770							
Asn	Leu	Ser	Ser	Asn	775	Ser	Asp	Gly	Ile	Ser	Pro	780	Lys	Arg	Arg	Arg	Leu		
					785							790							
Ser	Ser	Ser	Leu	Asn	795	Pro	Ser	Lys	Arg	Ala	Pro	800	Lys	Gln	Thr	Glu	Glu		
					805							810							
Ile	Lys	His	Val	Asp	815	Met	Asn	Gln	Lys	Ser	Ile	820	Leu	Trp	Ser	Ala	Leu		
705	Lys	Gln	Lys	Ala	825	Ser	Leu	Gln	Ile	Ser	Leu	830	Glu	Tyr	Ser	Gly	Leu		
					835							840							

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Lys	Asn	Pro	Val	Ile	Glu	Met	Leu	Glu	Gly	Ile	Ala	Val	Val	Leu	Gln
			740					745					750		
Leu	Thr	Ala	Leu	Cys	Thr	Val	His	Cys	Ser	His	Gln	Asn	Met	Asn	Cys
		755					760					765			
Arg	Thr	Phe	Lys	Asp	Cys	Gln	His	Lys	Ser	Lys	Lys	Lys	Pro	Ser	Val
		770				775					780				
Val	Ile	Thr	Trp	Met	Ser	Leu	Asp	Phe	Tyr	Thr	Lys	Val	Leu	Lys	Ser
785					790					795					800
Cys	Arg	Ser	Leu	Leu	Glu	Ser	Val	Gln	Lys	Leu	Asp	Leu	Glu	Ala	Thr
				805					810					815	
Ile	Asp	Lys	Val	Val	Lys	Ile	Tyr	Asp	Ala	Leu	Ile	Tyr	Met	Gln	Val
			820					825					830		
Asn	Ser	Ser	Phe	Glu	Asp	His	Ile	Leu	Glu	Asp	Leu	Cys	Gly	Met	Leu
		835					840					845			
Ser	Leu	Pro	Trp	Ile	Tyr	Ser	His	Ser	Asp	Asp	Gly	Cys	Leu	Lys	Leu
		850				855					860				
Thr	Thr	Phe	Ala	Ala	Asn	Leu	Leu	Thr	Leu	Ser	Cys	Arg	Ile	Ser	Asp
865					870					875					880
Ser	Tyr	Ser	Pro	Gln	Ala	Gln	Ser	Arg	Cys	Val	Phe	Leu	Leu	Thr	Leu
				885					890						895
Phe	Pro	Arg	Arg	Ile	Phe	Leu	Glu	Trp	Arg	Thr	Ala	Val	Tyr	Asn	Trp
			900					905					910		
Ala	Leu	Gln	Ser	Ser	His	Glu	Val	Ile	Arg	Ala	Ser	Cys	Val	Ser	Gly
		915					920					925			
Phe	Phe	Ile	Leu	Leu	Gln	Gln	Gln	Asn	Ser	Cys	Asn	Arg	Val	Pro	Lys
	930					935					940				
Ile	Leu	Ile	Asp	Lys	Val	Lys	Asp	Asp	Ser	Asp	Ile	Val	Lys	Lys	Glu
945					950					955					960
Phe	Ala	Ser	Ile	Leu	Gly	Gln	Leu	Val	Cys	Thr	Leu	His	Gly	Met	Phe
				965					970					975	
Tyr	Leu	Thr	Ser	Ser	Leu	Thr	Glu	Pro	Phe	Ser	Glu	His	Gly	His	Val
			980					985					990		
Asp	Leu	Phe	Cys	Arg	Asn	Leu	Lys	Ala	Thr	Ser	Gln	His	Glu	Cys	Ser
		995					1000					1005			
Ser	Ser	Gln	Leu	Lys	Ala	Ser	Val	Cys	Lys	Pro	Phe	Leu	Phe	Leu	Leu
	1010					1015					1020				
Lys	Lys	Lys	Ile	Pro	Ser	Pro	Val	Lys	Leu	Ala	Phe	Ile	Asp	Asn	Leu
1025					1030					1035					1040
His	His	Leu	Cys	Lys	His	Leu	Asp	Phe	Arg	Glu	Asp	Glu	Thr	Asp	Val
			1045						1050					1055	
Lys	Ala	Val	Leu	Gly	Thr	Leu	Leu	Asn	Leu	Met	Glu	Asp	Pro	Asp	Lys
			1060					1065					1070		
Asp	Val	Arg	Val	Ala	Phe	Ser	Gly	Asn	Ile	Lys	His	Ile	Leu	Glu	Ser
		1075					1080					1085			
Leu	Asp	Ser	Glu	Asp	Gly	Phe	Ile	Lys	Glu	Leu	Phe	Val	Leu	Arg	Met
	1090				1095						1100				
Lys	Glu	Ala	Tyr	Thr	His	Ala	Gln	Ile	Ser	Arg	Asn	Asn	Glu	Leu	Lys
1105					1110					1115					1120
Asp	Thr	Leu	Ile	Leu	Thr	Thr	Gly	Asp	Ile	Gly	Arg	Ala	Ala	Lys	Gly
			1125						1130					1135	
Asp	Leu	Val	Pro	Phe	Ala	Leu	Leu	His	Leu	Leu	His	Cys	Leu	Leu	Ser
			1140					1145					1150		
Lys	Ser	Ala	Ser	Val	Ser	Gly	Ala	Ala	Tyr	Thr	Glu	Ile	Arg	Ala	Leu
		1155					1160					1165			
Val	Ala	Ala	Lys	Ser	Val	Lys	Leu	Gln	Ser	Phe	Phe	Ser	Gln	Tyr	Lys
	1170					1175					1180				
Lys	Pro	Ile	Cys	Gln	Phe	Leu	Val	Glu	Ser	Leu	His	Ser	Ser	Gln	Met
1185					1190					1195					1200
Thr	Ala	Leu	Pro	Asn	Thr	Pro	Cys	Gln	Asn	Ala	Asp	Val	Arg	Lys	Gln
			1205						1210					1215	
Asp	Val	Ala	His	Gln	Arg	Glu	Met	Ala	Leu	Asn	Thr	Leu	Ser	Glu	Ile
			1220					1225					1230		
Ala	Asn	Val	Phe	Asp	Phe	Pro	Asp	Leu	Asn	Arg	Phe	Leu	Thr	Arg	Thr

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1235	1240	1245
Leu Gln Val Leu Leu Pro Asp Leu Ala Ala Lys Ala Ser Pro Ala Ala		
1250	1255	1260
Ser Ala Leu Ile Arg Thr Leu Gly Lys Gln Leu Asn Val Asn Arg Arg		
1265	1270	1275
Glu Ile Leu Ile Asn Asn Phe Lys Tyr Ile Phe Ser His Leu Val Cys		
1285	1290	1295
Ser Cys Ser Lys Asp Glu Leu Glu Arg Ala Leu His Tyr Leu Lys Asn		
1300	1305	1310
Glu Thr Glu Ile Glu Leu Gly Ser Leu Leu Arg Gln Asp Phe Gln Gly		
1315	1320	1325
Leu His Asn Glu Leu Leu Leu Arg Ile Gly Glu His Tyr Gln Gln Val		
1330	1335	1340
Phe Asn Gly Leu Ser Ile Leu Ala Ser Phe Ala Ser Ser Asp Asp Pro		
1345	1350	1355
Tyr Gln Gly Pro Arg Asp Ile Ile Ser Pro Glu Leu Met Ala Asp Tyr		
1365	1370	1375
Leu Gln Pro Lys Leu Leu Gly Ile Leu Ala Phe Phe Asn Met Gln Leu		
1380	1385	1390
Leu Ser Ser Ser Val Gly Ile Glu Asp Lys Lys Met Ala Leu Asn Ser		
1395	1400	1405
Leu Met Ser Leu Met Lys Leu Met Gly Pro Lys His Val Ser Ser Val		
1410	1415	1420
Arg Val Lys Met Met Thr Thr Leu Arg Thr Gly Leu Arg Phe Lys Asp		
1425	1430	1435
Asp Phe Pro Glu Leu Cys Cys Arg Ala Trp Asp Cys Phe Val Arg Cys		
1445	1450	1455
Leu Asp His Ala Cys Leu Gly Ser Leu Leu Ser His Val Ile Val Ala		
1460	1465	1470
Leu Leu Pro Leu Ile His Ile Gln Pro Lys Glu Thr Ala Ala Ile Phe		
1475	1480	1485
His Tyr Leu Ile Ile Glu Asn Arg Asp Ala Val Gln Asp Phe Leu His		
1490	1495	1500
Glu Ile Tyr Phe Leu Pro Asp His Pro Glu Leu Lys Lys Ile Lys Ala		
1505	1510	1515
Val Leu Gln Glu Tyr Arg Lys Glu Thr Ser Glu Ser Thr Asp Leu Gln		
1525	1530	1535
Thr Thr Leu Gln Leu Ser Met Lys Ala Ile Gln His Glu Asn Val Asp		
1540	1545	1550
Val Arg Ile His Ala Leu Thr Ser Leu Lys Glu Thr Leu Tyr Lys Asn		
1555	1560	1565
Gln Glu Lys Leu Ile Lys Tyr Ala Thr Asp Ser Glu Thr Val Glu Pro		
1570	1575	1580
Ile Ile Ser Gln Leu Val Thr Val Leu Leu Lys Gly Cys Gln Asp Ala		
1585	1590	1595
Asn Ser Gln Ala Arg Leu Leu Cys Gly Glu Cys Leu Gly Glu Leu Gly		
1605	1610	1615
Ala Ile Asp Pro Gly Arg Leu Asp Phe Ser Thr Thr Glu Thr Gln Gly		
1620	1625	1630
Lys Asp Phe Thr Phe Val Thr Gly Val Glu Asp Ser Ser Phe Ala Tyr		
1635	1640	1645
Gly Leu Leu Met Glu Leu Thr Arg Ala Tyr Leu Ala Tyr Ala Asp Asn		
1650	1655	1660
Ser Arg Ala Gln Asp Ser Ala Ala Tyr Ala Ile Gln Glu Leu Leu Ser		
1665	1670	1675
Ile Tyr Asp Cys Arg Glu Met Glu Thr Asn Gly Pro Gly His Gln Leu		
1685	1690	1695
Trp Arg Arg Phe Pro Glu His Val Arg Glu Ile Leu Glu Pro His Leu		
1700	1705	1710
Asn Thr Arg Tyr Lys Ser Ser Gln Lys Ser Thr Asp Trp Ser Gly Val		
1715	1720	1725
Lys Lys Pro Ile Tyr Leu Ser Lys Leu Gly Ser Asn Phe Ala Glu Trp		
1730	1735	1740

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Ser Ala Ser Trp Ala Gly Tyr Leu Ile Thr Lys Val Arg His Asp Leu
1745 1750 1755 1760
Ala Ser Lys Ile Phe Thr Cys Cys Ser Ile Met Met Lys His Asp Phe
1765 1770 1775
Lys Val Thr Ile Tyr Leu Leu Pro His Ile Leu Val Tyr Val Leu Leu
1780 1785 1790
Gly Cys Asn Gln Glu Asp Gln Gln Glu Val Tyr Ala Glu Ile Met Ala
1795 1800 1805
Val Leu Lys His Asp Asp Gln His Thr Ile Asn Thr Gln Asp Ile Ala
1810 1815 1820
Ser Asp Leu Cys Gln Leu Ser Thr Gln Thr Val Phe Ser Met Leu Asp
1825 1830 1835 1840
His Leu Thr Gln Trp Ala Arg His Lys Phe Gln Ala Leu Lys Ala Glu
1845 1850 1855
Lys Cys Pro His Ser Lys Ser Asn Arg Asn Lys Val Asp Ser Met Val
1860 1865 1870
Ser Thr Val Asp Tyr Glu Asp Tyr Gln Ser Val Thr Arg Phe Leu Asp
1875 1880 1885
Leu Ile Pro Gln Asp Thr Leu Ala Val Ala Ser Phe Arg Ser Lys Ala
1890 1895 1900
Tyr Thr Arg Ala Val Met His Phe Glu Ser Phe Ile Thr Glu Lys Lys
1905 1910 1915 1920
Gln Asn Ile Gln Glu His Leu Gly Phe Leu Gln Lys Leu Tyr Ala Ala
1925 1930 1935
Met His Glu Pro Asp Gly Val Ala Gly Val Ser Ala Ile Arg Lys Ala
1940 1945 1950
Glu Pro Ser Leu Lys Glu Gln Ile Leu Glu His Glu Ser Leu Gly Leu
1955 1960 1965
Leu Arg Asp Ala Thr Ala Cys Tyr Asp Arg Ala Ile Gln Leu Glu Pro
1970 1975 1980
Asp Gln Ile Ile His Tyr His Gly Val Val Lys Ser Met Leu Gly Leu
1985 1990 1995 2000
Gly Gln Leu Ser Thr Val Ile Thr Gln Val Asn Gly Val His Ala Asn
2005 2010 2015
Arg Ser Glu Trp Thr Asp Glu Leu Asn Thr Tyr Arg Val Glu Ala Ala
2020 2025 2030
Trp Lys Leu Ser Gln Trp Asp Leu Val Glu Asn Tyr Leu Ala Ala Asp
2035 2040 2045
Gly Lys Ser Thr Thr Trp Ser Val Arg Leu Gly Gln Leu Leu Leu Ser
2050 2055 2060
Ala Lys Lys Arg Asp Ile Thr Ala Phe Tyr Asp Ser Leu Lys Leu Val
2065 2070 2075 2080
Arg Ala Glu Gln Ile Val Pro Leu Ser Ala Ala Ser Phe Glu Arg Gly
2085 2090 2095
Ser Tyr Gln Arg Gly Tyr Glu Tyr Ile Val Arg Leu His Met Leu Cys
2100 2105 2110
Glu Leu Glu His Ser Ile Lys Pro Leu Phe Gln His Ser Pro Gly Asp
2115 2120 2125
Ser Ser Gln Glu Asp Ser Leu Asn Trp Val Ala Arg Leu Glu Met Thr
2130 2135 2140
Gln Asn Ser Tyr Arg Ala Lys Glu Pro Ile Leu Ala Leu Arg Arg Ala
2145 2150 2155 2160
Leu Leu Ser Leu Asn Lys Arg Pro Asp Tyr Asn Glu Met Val Gly Glu
2165 2170 2175
Cys Trp Leu Gln Ser Ala Arg Val Ala Arg Lys Ala Gly His His Gln
2180 2185 2190
Thr Ala Tyr Asn Ala Leu Leu Asn Ala Gly Glu Ser Arg Leu Ala Glu
2195 2200 2205
Leu Tyr Val Glu Arg Ala Lys Trp Leu Trp Ser Lys Gly Asp Val His
2210 2215 2220
Gln Ala Leu Ile Val Leu Gln Lys Gly Val Glu Leu Cys Phe Pro Glu
2225 2230 2235 2240
Asn Glu Thr Pro Pro Glu Gly Lys Asn Met Leu Ile His Gly Arg Ala

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Met Leu Leu Val 2245 Gly Arg Phe Met Glu Glu Thr Ala Asn Phe Glu Ser 2255
 2260 2265 2270
 Asn Ala Ile Met Lys Lys Tyr Lys Asp Val Thr Ala Cys Leu Pro Glu 2285
 2275 2280 2285
 Trp Glu Asp Gly His Phe Tyr Leu Ala Lys Tyr Tyr Asp Lys Leu Met 2300
 2290 2295 2300
 Pro Met Val Thr Asp Asn Lys Met Glu Lys Gln Gly Asp Leu Ile Arg 2320
 2305 2310 2315 2320
 Tyr Ile Val Leu His Phe Gly Arg Ser Leu Gln Tyr Gly Asn Gln Phe 2335
 2325 2330 2335
 Ile Tyr Gln Ser Met Pro Arg Met Leu Thr Leu Trp Leu Asp Tyr Gly 2350
 2340 2345 2350
 Thr Lys Ala Tyr Glu Trp Glu Lys Ala Gly Arg Ser Asp Arg Val Gln 2365
 2355 2360 2365
 Met Arg Asn Asp Leu Gly Lys Ile Asn Lys Val Ile Thr Glu His Thr 2380
 2370 2375 2380
 Asn Tyr Leu Ala Pro Tyr Gln Phe Leu Thr Ala Phe Ser Gln Leu Ile 2400
 2385 2390 2395 2400
 Ser Arg Ile Cys His Ser His Asp Glu Val Phe Val Val Leu Met Glu 2415
 2405 2410 2415
 Ile Ile Ala Lys Val Phe Leu Ala Tyr Pro Gln Gln Ala Met Trp Met 2430
 2420 2425 2430
 Met Thr Ala Val Ser Lys Ser Ser Tyr Pro Met Arg Val Asn Arg Cys 2445
 2435 2440 2445
 Lys Glu Ile Leu Asn Lys Ala Ile His Met Lys Lys Ser Leu Glu Lys 2460
 2450 2455 2460
 Phe Val Gly Asp Ala Thr Arg Leu Thr Asp Lys Leu Leu Glu Leu Cys 2480
 2465 2470 2475 2480
 Asn Lys Pro Val Asp Gly Ser Ser Ser Thr Leu Ser Met Ser Thr His 2495
 2485 2490 2495
 Phe Lys Met Leu Lys Lys Leu Val Glu Glu Ala Thr Phe Ser Glu Ile 2510
 2500 2505 2510
 Leu Ile Pro Leu Gln Ser Val Met Ile Pro Thr Leu Pro Ser Ile Leu 2525
 2515 2520 2525
 Gly Thr His Ala Asn His Ala Ser His Glu Pro Phe Pro Gly His Trp 2540
 2530 2535 2540
 Ala Tyr Ile Ala Gly Phe Asp Asp Met Val Glu Ile Leu Ala Ser Leu 2560
 2545 2550 2555 2560
 Gln Lys Pro Lys Lys Ile Ser Leu Lys Gly Ser Asp Gly Lys Phe Tyr 2575
 2565 2570 2575
 Ile Met Met Cys Lys Pro Lys Asp Asp Leu Arg Lys Asp Cys Arg Leu 2590
 2580 2585 2590
 Met Glu Phe Asn Ser Leu Ile Asn Lys Cys Leu Arg Lys Asp Ala Glu 2605
 2595 2600 2605
 Ser Arg Arg Arg Glu Leu His Ile Arg Thr Tyr Ala Val Ile Pro Leu 2620
 2610 2615 2620
 Asn Asp Glu Cys Gly Ile Ile Glu Trp Val Asn Asn Thr Ala Gly Leu 2640
 2625 2630 2635 2640
 Arg Pro Ile Leu Thr Lys Leu Tyr Lys Glu Lys Gly Val Tyr Met Thr 2655
 2645 2650 2655
 Gly Lys Glu Leu Arg Gln Cys Met Leu Pro Lys Ser Ala Ala Leu Ser 2670
 2660 2665 2670
 Glu Lys Leu Lys Val Phe Arg Glu Phe Leu Leu Pro Arg His Pro Pro 2685
 2675 2680 2685
 Ile Phe His Glu Trp Phe Leu Arg Thr Phe Pro Asp Pro Thr Ser Trp 2700
 2690 2695 2700
 Tyr Ser Ser Arg Ser Ala Tyr Cys Arg Ser Thr Ala Val Met Ser Met 2720
 2705 2710 2715 2720
 Val Gly Tyr Ile Leu Gly Leu Gly Asp Arg His Gly Glu Asn Ile Leu 2735
 2725 2730 2735
 Phe Asp Ser Leu Thr Gly Glu Cys Val His Val Asp Phe Asn Cys Leu 2750
 2740 2745 2750

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Phe Asn Lys Gly Glu Thr Phe Glu Val Pro Glu Ile Val Pro Phe Arg
 2755 2760 2765
 Leu Thr His Asn Met Val Asn Gly Met Gly Pro Met Gly Thr Glu Gly
 2770 2775 2780
 Leu Phe Arg Arg Ala Cys Glu Val Thr Met Arg Leu Met Arg Asp Gln
 2785 2790 2795 2800
 Arg Glu Pro Leu Met Ser Val Leu Lys Thr Phe Leu His Asp Pro Leu
 2805 2810 2815
 Val Glu Trp Ser Lys Pro Val Lys Gly His Ser Lys Ala Pro Leu Asn
 2820 2825 2830
 Glu Thr Gly Glu Val Val Asn Glu Lys Ala Lys Thr His Val Leu Asp
 2835 2840 2845
 Ile Glu Gln Arg Leu Gln Gly Val Ile Lys Thr Arg Asn Arg Val Thr
 2850 2855 2860
 Gly Leu Pro Leu Ser Ile Glu Gly His Val His Tyr Leu Ile Gln Glu
 2865 2870 2875 2880
 Ala Thr Asp Glu Asn Leu Leu Cys Gln Met Tyr Leu Gly Trp Thr Pro
 2885 2890 2895
 Tyr Met

<210> 4

<211> 830

<212> PRT

<213> organismos sintéticos

<400> 4

Met Ala Ser Trp Ser His Pro Gln Phe Glu Lys Ser Ala Gly Leu Glu
 1 5 10 15
 Thr Ser Leu Tyr Lys Lys Ala Gly Ser Asp Tyr Asp Ile Pro Thr Thr
 20 25 30
 Glu Asn Leu Tyr Phe Gln Gly Met Ala Gly Thr Ser Ala Pro Gly Ser
 35 40 45
 Lys Arg Arg Ser Glu Pro Pro Ala Pro Arg Pro Gly Pro Pro Gly
 50 55 60
 Thr Gly His Pro Pro Ser Lys Arg Ala Arg Gly Phe Ser Ala Ala Ala
 65 70 75 80
 Ala Pro Asp Pro Asp Pro Phe Gly Ala His Gly Asp Phe Thr Ala
 85 90 95
 Asp Asp Leu Glu Glu Leu Asp Thr Leu Ala Ser Gln Ala Leu Ser Gln
 100 105 110
 Cys Pro Ala Ala Ala Arg Asp Val Ser Ser Asp His Lys Val His Arg
 115 120 125
 Leu Leu Asp Gly Met Ser Lys Asn Pro Ser Gly Lys Asn Arg Glu Thr
 130 135 140
 Val Pro Ile Lys Asp Asn Phe Glu Leu Glu Val Leu Gln Ala Gln Tyr
 145 150 155 160
 Lys Glu Leu Lys Glu Lys Met Lys Val Met Glu Glu Glu Val Leu Ile
 165 170 175
 Lys Asn Gly Glu Ile Lys Ile Leu Arg Asp Ser Leu His Gln Thr Glu
 180 185 190
 Ser Val Leu Glu Glu Gln Arg Arg Ser His Phe Leu Leu Glu Gln Glu
 195 200 205
 Lys Thr Gln Ala Leu Ser Asp Lys Glu Lys Glu Phe Ser Lys Lys Leu
 210 215 220
 Gln Ser Leu Gln Ser Glu Leu Gln Phe Lys Asp Ala Glu Met Asn Glu
 225 230 235 240
 Leu Arg Thr Lys Leu Gln Thr Ser Glu Arg Ala Asn Lys Leu Ala Ala
 245 250 255
 Pro Ser Val Ser His Val Ser Pro Arg Lys Asn Pro Ser Val Val Ile
 260 265 270
 Lys Pro Glu Ala Cys Ser Pro Gln Phe Gly Lys Thr Ser Phe Pro Thr
 275 280 285

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Lys	Glu	Ser	Phe	Ser	Ala	Asn	Met	Ser	Leu	Pro	His	Pro	Cys	Gln	Thr
290	290					295					300				
Glu	Ser	Gly	Tyr	Lys	Pro	Leu	Val	Gly	Arg	Glu	Asp	Ser	Lys	Pro	His
305					310					315					320
Ser	Leu	Arg	Gly	Asp	Ser	Ile	Lys	Gln	Glu	Glu	Ala	Gln	Lys	Ser	Phe
				325					330					335	
Val	Asp	Ser	Trp	Arg	Gln	Arg	Ser	Asn	Thr	Gln	Gly	Ser	Ile	Leu	Ile
			340					345					350		
Asn	Leu	Leu	Leu	Lys	Gln	Pro	Leu	Ile	Pro	Gly	Ser	Ser	Leu	Ser	Leu
		355					360					365			
Cys	His	Leu	Leu	Ser	Ser	Ser	Ser	Glu	Ser	Pro	Ala	Gly	Thr	Pro	Leu
	370					375					380				
Gln	Pro	Pro	Gly	Phe	Gly	Ser	Thr	Leu	Ala	Gly	Met	Ser	Gly	Leu	Arg
385					390					395					400
Thr	Thr	Gly	Ser	Tyr	Asp	Gly	Ser	Phe	Ser	Leu	Ser	Ala	Leu	Arg	Glu
				405				410						415	
Ala	Gln	Asn	Leu	Ala	Phe	Thr	Gly	Leu	Asn	Leu	Val	Ala	Arg	Asn	Glu
			420					425					430		
Cys	Ser	Arg	Asp	Gly	Asp	Pro	Ala	Glu	Gly	Gly	Arg	Arg	Ala	Phe	Pro
		435					440					445			
Leu	Cys	Gln	Leu	Pro	Gly	Ala	Val	His	Phe	Leu	Pro	Leu	Val	Gln	Phe
	450					455					460				
Phe	Ile	Gly	Leu	His	Cys	Gln	Ala	Leu	Gln	Asp	Leu	Ala	Ala	Ala	Lys
465					470					475					480
Arg	Ser	Gly	Ala	Pro	Gly	Asp	Ser	Pro	Thr	His	Ser	Ser	Cys	Val	Ser
				485					490					495	
Ser	Gly	Val	Glu	Thr	Asn	Pro	Glu	Asp	Ser	Val	Cys	Ile	Leu	Glu	Gly
			500					505					510		
Phe	Ser	Val	Thr	Ala	Leu	Ser	Ile	Leu	Gln	His	Leu	Val	Cys	His	Ser
		515					520					525			
Gly	Ala	Val	Val	Ser	Leu	Leu	Ser	Gly	Val	Gly	Ala	Asp	Ser	Ala	
	530					535				540					
Ala	Gly	Glu	Gly	Asn	Arg	Ser	Leu	Val	His	Arg	Leu	Ser	Asp	Gly	Asp
545					550					555					560
Met	Thr	Ser	Ala	Leu	Arg	Gly	Val	Ala	Asp	Asp	Gln	Gly	Gln	His	Pro
				565					570					575	
Leu	Leu	Lys	Met	Leu	Leu	His	Leu	Leu	Ala	Phe	Ser	Ser	Ala	Ala	Thr
			580					585					590		
Gly	His	Leu	Gln	Ala	Ser	Val	Leu	Thr	Gln	Cys	Leu	Lys	Val	Leu	Val
		595					600					605			
Lys	Leu	Ala	Glu	Asn	Thr	Ser	Cys	Asp	Phe	Leu	Pro	Arg	Phe	Gln	Cys
	610					615					620				
Val	Phe	Gln	Val	Leu	Pro	Lys	Cys	Leu	Ser	Pro	Glu	Thr	Pro	Leu	Pro
625					630					635					640
Ser	Val	Leu	Leu	Ala	Val	Glu	Leu	Leu	Ser	Leu	Leu	Ala	Asp	His	Asp
				645					650					655	
Gln	Leu	Ala	Pro	Gln	Leu	Cys	Ser	His	Ser	Glu	Gly	Cys	Leu	Leu	Leu
			660					665					670		
Leu	Leu	Tyr	Met	Tyr	Ile	Thr	Ser	Arg	Pro	Asp	Arg	Val	Ala	Leu	Glu
		675					680					685			
Thr	Gln	Trp	Leu	Gln	Leu	Glu	Gln	Glu	Val	Val	Trp	Leu	Leu	Ala	Lys
	690					695					700				
Leu	Gly	Val	Gln	Ser	Pro	Leu	Pro	Pro	Val	Thr	Gly	Ser	Asn	Cys	Gln
705					710					715					720
Cys	Asn	Val	Glu	Val	Arg	Ala	Leu	Thr	Val	Met	Leu	His	Arg	Gln	
				725				730					735		
Trp	Leu	Thr	Val	Arg	Arg	Ala	Gly	Gly	Pro	Pro	Arg	Thr	Asp	Gln	Gln
			740				745						750		
Arg	Arg	Thr	Val	Arg	Cys	Leu	Arg	Asp	Thr	Val	Leu	Leu	Leu	His	Gly
		755					760					765			
Leu	Ser	Gln	Lys	Asp	Lys	Leu	Phe	Met	Met	His	Cys	Val	Glu	Val	Leu
	770					775					780				
His	Gln	Phe	Asp	Gln	Val	Met	Pro	Gly	Val	Ser	Met	Leu	Ile	Arg	Gly

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785					790					795					800
Leu	Pro	Asp	Val	Thr	Asp	Cys	Glu	Glu	Ala	Ala	Leu	Asp	Asp	Leu	Cys
				805					810					815	
Ala	Ala	Glu	Thr	Asp	Val	Glu	Asp	Pro	Glu	Val	Glu	Cys	Gly		
			820					825					830		