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SEQUENCE LISTING

<110> Helmholtz Zentrum für Infektionsforschung
Medical Research Council

5

<120> Met inhibitor

<130> 3275014

<160> 5

<170> PatentIn version 3.3

10

<210> 1

<211> 1390

<212> PRT

<213> human

<400> 1

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20 25 30

Ser Glu Met Asn Val Asn Met Lys Tyr Gln Leu Pro Asn Phe Thr Ala

20

35 40 45

Glu Thr Pro Ile Gln Asn Val Ile Leu His Glu His His Ile Phe Leu

50 55 60

Gly Ala Thr Asn Tyr Ile Tyr Val Leu Asn Glu Glu Asp Leu Gln Lys

65 70 75 80

25

Val Ala Glu Tyr Lys Thr Gly Pro Val Leu Glu His Pro Asp Cys Phe

85 90 95

Pro Cys Gln Asp Cys Ser Ser Lys Ala Asn Leu Ser Gly Gly Val Trp

100 105 110

Lys Asp Asn Ile Asn Met Ala Leu Val Val Asp Thr Tyr Tyr Asp Asp

30

115 120 125

Gln Leu Ile Ser Cys Gly Ser Val Asn Arg Gly Thr Cys Gln Arg His

130 135 140

Val Phe Pro His Asn His Thr Ala Asp Ile Gln Ser Glu Val His Cys

145 150 155 160

35

Ile Phe Ser Pro Gln Ile Glu Glu Pro Ser Gln Cys Pro Asp Cys Val

165 170 175

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	Phe	Arg	Asp	Ser	Tyr	Pro	Ile	Lys	Tyr	Val	His	Ala	Phe	Glu	Ser	Asn
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	Asn	Phe	Ile	Tyr	Phe	Leu	Thr	Val	Gln	Arg	Glu	Thr	Leu	Asp	Ala	Gln
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	Tyr	Val	Ser	Lys	Pro	Gly	Ala	Gln	Leu	Ala	Arg	Gln	Ile	Gly	Ala	Ser
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	Leu	Asn	Asp	Asp	Ile	Leu	Phe	Gly	Val	Phe	Ala	Gln	Ser	Lys	Pro	Asp
				340					345					350		
	Ser	Ala	Glu	Pro	Met	Asp	Arg	Ser	Ala	Met	Cys	Ala	Phe	Pro	Ile	Lys
		355					360						365			
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		370					375					380				
	Cys	Leu	Gln	His	Phe	Tyr	Gly	Pro	Asn	His	Glu	His	Cys	Phe	Asn	Arg
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				420					425					430		
	Gln	Phe	Ser	Glu	Val	Leu	Leu	Thr	Ser	Ile	Ser	Thr	Phe	Ile	Lys	Gly
			435					440					445			
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	Val	Val	Val	Ser	Arg	Ser	Gly	Pro	Ser	Thr	Pro	His	Val	Asn	Phe	Leu
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					485					490						495
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				500					505					510		
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			515					520					525			
	Cys	Leu	Ser	Ala	Pro	Pro	Phe	Val	Gln	Cys	Gly	Trp	Cys	His	Asp	Lys
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	Cys	Val	Arg	Ser	Glu	Glu	Cys	Leu	Ser	Gly	Thr	Trp	Thr	Gln	Gln	Ile
	545				550					555						560
	Cys	Leu	Pro	Ala	Ile	Tyr	Lys	Val	Phe	Pro	Asn	Ser	Ala	Pro	Leu	Glu
					565					570						575
15	Gly	Gly	Thr	Arg	Leu	Thr	Ile	Cys	Gly	Trp	Asp	Phe	Gly	Phe	Arg	Arg
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25	Pro	Val	Ile	Thr	Ser	Ile	Ser	Pro	Lys	Tyr	Gly	Pro	Met	Ala	Gly	Gly
			660					665					670			
	Thr	Leu	Leu	Thr	Leu	Thr	Gly	Asn	Tyr	Leu	Asn	Ser	Gly	Asn	Ser	Arg
			675				680						685			
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30		690					695					700				
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	705				710					715						720
	Ala	Val	Lys	Leu	Lys	Ile	Asp	Leu	Ala	Asn	Arg	Glu	Thr	Ser	Ile	Phe
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35	Ser	Tyr	Arg	Glu	Asp	Pro	Ile	Val	Tyr	Glu	Ile	His	Pro	Thr	Lys	Ser
			740						745					750		

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	Phe	Ile	Ser	Gly	Gly	Ser	Thr	Ile	Thr	Gly	Val	Gly	Lys	Asn	Leu	Asn	
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	Ser	Val	Ser	Val	Pro	Arg	Met	Val	Ile	Asn	Val	His	Glu	Ala	Gly	Arg	
				770				775				780					
5	Asn	Phe	Thr	Val	Ala	Cys	Gln	His	Arg	Ser	Asn	Ser	Glu	Ile	Ile	Cys	
				785			790				795					800	
	Cys	Thr	Thr	Pro	Ser	Leu	Gln	Gln	Leu	Asn	Leu	Gln	Leu	Pro	Leu	Lys	
					805					810					815		
	Thr	Lys	Ala	Phe	Phe	Met	Leu	Asp	Gly	Ile	Leu	Ser	Lys	Tyr	Phe	Asp	
10				820					825					830			
	Leu	Ile	Tyr	Val	His	Asn	Pro	Val	Phe	Lys	Pro	Phe	Glu	Lys	Pro	Val	
				835				840					845				
	Met	Ile	Ser	Met	Gly	Asn	Glu	Asn	Val	Leu	Glu	Ile	Lys	Gly	Asn	Asp	
				850			855				860						
15	Ile	Asp	Pro	Glu	Ala	Val	Lys	Gly	Glu	Val	Leu	Lys	Val	Gly	Asn	Lys	
				865			870				875					880	
	Ser	Cys	Glu	Asn	Ile	His	Leu	His	Ser	Glu	Ala	Val	Leu	Cys	Thr	Val	
				885					890				895				
	Pro	Asn	Asp	Leu	Leu	Lys	Leu	Asn	Ser	Glu	Leu	Asn	Ile	Glu	Trp	Lys	
20				900					905				910				
	Gln	Ala	Ile	Ser	Ser	Thr	Val	Leu	Gly	Lys	Val	Ile	Val	Gln	Pro	Asp	
				915				920					925				
	Gln	Asn	Phe	Thr	Gly	Leu	Ile	Ala	Gly	Val	Val	Ser	Ile	Ser	Thr	Ala	
				930			935				940						
25	Leu	Leu	Leu	Leu	Leu	Gly	Phe	Phe	Leu	Trp	Leu	Lys	Lys	Arg	Lys	Gln	
				945			950				955					960	
	Ile	Lys	Asp	Leu	Gly	Ser	Glu	Leu	Val	Arg	Tyr	Asp	Ala	Arg	Val	His	
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	Thr	Pro	His	Leu	Asp	Arg	Leu	Val	Ser	Ala	Arg	Ser	Val	Ser	Pro	Thr	
30				980					985				990				
	Thr	Glu	Met	Val	Ser	Asn	Glu	Ser	Val	Asp	Tyr	Arg	Ala	Thr	Phe	Pro	
				995			1000				1005						
	Glu	Asp	Gln	Phe	Pro	Asn	Ser	Ser	Gln	Asn	Gly	Ser	Cys	Arg	Gln		
				1010			1015				1020						
35	Val	Gln	Tyr	Pro	Leu	Thr	Asp	Met	Ser	Pro	Ile	Leu	Thr	Ser	Gly		
				1025			1030					1035					

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	Asp Ser	Asp Ile Ser Ser Pro	Leu Leu Gln Asn Thr	Val His Ile
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	Asp Leu	Ser Ala Leu Asn Pro	Glu Leu Val Gln Ala	Val Gln His
	1055	1060	1065	
5	Val Val	Ile Gly Pro Ser Ser	Leu Ile Val His Phe	Asn Glu Val
	1070	1075	1080	
	Ile Gly	Arg Gly His Phe Gly	Cys Val Tyr His Gly	Thr Leu Leu
	1085	1090	1095	
	Asp Asn	Asp Gly Lys Lys Ile	His Cys Ala Val Lys	Ser Leu Asn
10	1100	1105	1110	
	Arg Ile	Thr Asp Ile Gly Glu	Val Ser Gln Phe Leu	Thr Glu Gly
	1115	1120	1125	
	Ile Ile	Met Lys Asp Phe Ser	His Pro Asn Val Leu	Ser Leu Leu
	1130	1135	1140	
15	Gly Ile	Cys Leu Arg Ser Glu	Gly Ser Pro Leu Val	Val Leu Pro
	1145	1150	1155	
	Tyr Met	Lys His Gly Asp Leu	Arg Asn Phe Ile Arg	Asn Glu Thr
	1160	1165	1170	
	His Asn	Pro Thr Val Lys Asp	Leu Ile Gly Phe Gly	Leu Gln Val
20	1175	1180	1185	
	Ala Lys	Gly Met Lys Tyr Leu	Ala Ser Lys Lys Phe	Val His Arg
	1190	1195	1200	
	Asp Leu	Ala Ala Arg Asn Cys	Met Leu Asp Glu Lys	Phe Thr Val
	1205	1210	1215	
25	Lys Val	Ala Asp Phe Gly Leu	Ala Arg Asp Met Tyr	Asp Lys Glu
	1220	1225	1230	
	Tyr Tyr	Ser Val His Asn Lys	Thr Gly Ala Lys Leu	Pro Val Lys
	1235	1240	1245	
	Trp Met	Ala Leu Glu Ser Leu	Gln Thr Gln Lys Phe	Thr Thr Lys
30	1250	1255	1260	
	Ser Asp	Val Trp Ser Phe Gly	Val Val Leu Trp Glu	Leu Met Thr
	1265	1270	1275	
	Arg Gly	Ala Pro Pro Tyr Pro	Asp Val Asn Thr Phe	Asp Ile Thr
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35	Val Tyr	Leu Leu Gln Gly Arg	Arg Leu Leu Gln Pro	Glu Tyr Cys
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	Pro Asp	Pro Leu Tyr Glu Val	Met Leu Lys Cys Trp	His Pro Lys
	1310	1315	1320	
	Ala Glu	Met Arg Pro Ser Phe	Ser Glu Leu Val Ser	Arg Ile Ser
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5	Ala Ile	Phe Ser Thr Phe Ile	Gly Glu His Tyr Val	His Val Asn
	1340	1345	1350	
	Ala Thr	Tyr Val Asn Val Lys	Cys Val Ala Pro Tyr	Pro Ser Leu
	1355	1360	1365	
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	Val Gln Ala Glu Thr Ile Thr Val Pro Thr Pro Ile Lys Gln Ile Phe			
	35	40	45	
25	Ser Asp Asp Ala Phe Ala Glu Thr Ile Lys Asp Asn Leu Lys Lys Lys			
	50	55	60	
	Ser Val Thr Asp Ala Val Thr Gln Asn Glu Leu Asn Ser Ile Asp Gln			
	65	70	75	80
	Ile Ile Ala Asn Asn Ser Asp Ile Lys Ser Val Gln Gly Ile Gln Tyr			
30	85	90	95	
	Leu Pro Asn Val Thr Lys Leu Phe Leu Asn Gly Asn Lys Leu Thr Asp			
	100	105	110	
	Ile Lys Pro Leu Ala Asn Leu Lys Asn Leu Gly Trp Leu Phe Leu Asp			
	115	120	125	
35	Glu Asn Lys Val Lys Asp Leu Ser Ser Leu Lys Asp Leu Lys Lys Leu			
	130	135	140	

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	Lys	Ser	Leu	Ser	Leu	Glu	His	Asn	Gly	Ile	Ser	Asp	Ile	Asn	Gly	Leu	
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						165					170					175	
5	Thr	Asp	Ile	Thr	Val	Leu	Ser	Arg	Leu	Thr	Lys	Leu	Asp	Thr	Leu	Ser	
						180					185					190	
	Leu	Glu	Asp	Asn	Gln	Ile	Ser	Asp	Ile	Val	Pro	Leu	Ala	Gly	Leu	Thr	
						195					200				205		
	Lys	Leu	Gln	Asn	Leu	Tyr	Leu	Ser	Lys	Asn	His	Ile	Ser	Asp	Leu	Arg	
10		210					215					220					
	Ala	Leu	Ala	Gly	Leu	Lys	Asn	Leu	Asp	Val	Leu	Glu	Leu	Phe	Ser	Gln	
	225					230					235					240	
	Glu	Cys	Leu	Asn	Lys	Pro	Ile	Asn	His	Gln	Ser	Asn	Leu	Val	Val	Pro	
						245					250					255	
15	Asn	Thr	Val	Lys	Asn	Thr	Asp	Gly	Ser	Leu	Val	Thr	Pro	Glu	Ile	Ile	
						260					265					270	
	Ser	Asp	Asp	Gly	Asp	Tyr	Glu	Lys	Pro	Asn	Val	Lys	Trp	His	Leu	Pro	
						275					280					285	
	Glu	Phe	Thr	Asn	Glu	Val	Ser	Phe	Ile	Phe	Tyr	Gln	Pro	Val	Thr	Ile	
20		290					295					300					
	Gly	Lys	Ala	Lys	Ala	Arg	Phe	His	Gly	Arg	Val	Thr	Gln	Pro	Leu	Lys	
	305					310					315					320	
	Glu	Val	Tyr	Thr	Val	Ser	Tyr	Asp	Val	Asp	Gly	Thr	Val	Ile	Lys	Thr	
						325					330					335	
25	Lys	Val	Glu	Ala	Gly	Thr	Arg	Ile	Thr	Ala	Pro	Lys	Pro	Pro	Thr	Lys	
						340					345					350	
	Gln	Gly	Tyr	Val	Phe	Lys	Gly	Trp	Tyr	Thr	Glu	Lys	Asn	Gly	Gly	His	
						355					360					365	
	Glu	Trp	Asn	Phe	Asn	Thr	Asp	Tyr	Met	Ser	Gly	Asn	Asp	Phe	Thr	Leu	
30		370					375					380					
	Tyr	Ala	Val	Phe	Lys	Ala	Glu	Thr	Thr	Glu	Lys	Ala	Val	Asn	Leu	Thr	
	385					390					395					400	
	Arg	Tyr	Val	Lys	Tyr	Ile	Arg	Gly	Asn	Ala	Gly	Ile	Tyr	Lys	Leu	Pro	
						405					410					415	
35	Arg	Glu	Asp	Asn	Ser	Leu	Lys	Gln	Gly	Thr	Leu	Ala	Ser	His	Arg	Cys	
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	Lys	Ala	Leu	Thr	Val	Asp	Arg	Glu	Ala	Arg	Asn	Gly	Gly	Lys	Leu	Trp	
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5	Asp	Arg	Tyr	Asp	Lys	Met	Glu	Tyr	Asp	Lys	Gly	Val	Thr	Ala	Tyr	Ala	
	465								470				475				
	Arg	Val	Arg	Asn	Ala	Ser	Gly	Asn	Ser	Val	Trp	Thr	Lys	Pro	Tyr	Asn	
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	Thr	Ala	Gly	Ala	Lys	His	Val	Asn	Lys	Leu	Ser	Val	Tyr	Gln	Gly	Lys	
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													510				
	Asn	Met	Arg	Ile	Leu	Arg	Glu	Ala	Lys	Thr	Pro	Ile	Thr	Thr	Trp	Tyr	
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	Gln	Phe	Ser	Ile	Gly	Gly	Lys	Val	Ile	Gly	Trp	Val	Asp	Thr	Arg	Ala	
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15	Leu	Asn	Thr	Phe	Tyr	Lys	Gln	Ser	Met	Glu	Lys	Pro	Thr	Arg	Leu	Thr	
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	Arg	Tyr	Val	Ser	Ala	Asn	Lys	Ala	Gly	Glu	Ser	Tyr	Tyr	Lys	Val	Pro	
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	Val	Ala	Asp	Asn	Pro	Val	Lys	Arg	Gly	Thr	Leu	Ala	Lys	Tyr	Lys	Asn	
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	595								600				605				
	Tyr	Arg	Ile	Arg	Thr	Ser	Ser	Thr	Phe	Ile	Gly	Trp	Thr	Lys	Ala	Ala	
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	20								25				30				

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

<210> 4

<211> 241

5 <212> PRT

<213> *Listeria monocytogenes*

<400> 4

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Val Gln Ala Glu Thr Ile Thr Val Pro Thr Pro Ile Lys Gln Ile Phe
    35           40           45
Ser Asp Asp Ala Phe Ala Glu Thr Ile Lys Asp Asn Leu Lys Lys Lys
15    50           55           60
Ser Val Thr Asp Ala Val Thr Gln Asn Glu Leu Asn Ser Ile Asp Gln
65           70           75           80
Ile Ile Ala Asn Asn Ser Asp Ile Lys Ser Val Gln Gly Ile Gln Tyr
    85           90           95
20 Leu Pro Asn Val Thr Lys Leu Phe Leu Asn Gly Asn Lys Leu Thr Asp
    100          105          110
Ile Lys Pro Leu Ala Asn Leu Lys Asn Leu Gly Trp Leu Phe Leu Asp
    115          120          125
Glu Asn Lys Val Lys Asp Leu Ser Ser Leu Lys Asp Leu Lys Lys Leu
25    130          135          140
Lys Ser Leu Ser Leu Glu His Asn Gly Ile Ser Asp Ile Asn Gly Leu
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Val His Leu Pro Gln Leu Glu Ser Leu Tyr Leu Gly Asn Asn Lys Ile
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30 Thr Asp Ile Thr Val Leu Ser Arg Leu Thr Lys Leu Asp Thr Leu Ser
    180          185          190
Leu Glu Asp Asn Gln Ile Ser Asp Ile Val Pro Leu Ala Gly Leu Thr
    195          200          205
Lys Leu Gln Asn Leu Tyr Leu Ser Lys Asn His Ile Ser Asp Leu Arg
35    210          215          220
Ala Leu Ala Gly Leu Lys Asn Leu Asp Val Leu Glu Leu Phe Ser Gln

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