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 <151> 2008-12-19
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35 40 45

Ala Gly Leu Arg Cys Val Tyr Ser Glu Arg Cys Pro Lys Arg Asn Leu
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His Lys Glu Ala Ala Ala Gly Thr Thr Arg Ala Thr Glu Thr Ser Gln
65 70 75 80

Pro Met Thr Ala Thr Ser Ser Thr Val Phe Ser Ser Leu Ala Glu Thr
85 90 95

Pro Pro Pro Tyr Cys Ser Pro Pro Thr His Ile Gly Thr Ser Ala Leu
100 105 110

Lys Glu Thr Leu Ser Glu Pro Ser Ala Ala Thr Leu Gln Phe Tyr Asp
115 120 125

Thr Ser Ile Asn Phe Asp Asp Pro Glu Ser Phe Pro Gly Gly Trp Pro
130 135 140

Gln Pro Asn Thr Phe Arg Asp Asp Ala Asn Ser Asn Glu Ser Ser Gly
145 150 155 160

Ile Pro Asp Leu Gly Tyr Asp Phe Glu Gly Pro Leu Asp Ala Thr Ala
165 170 175

Pro Val Ser Pro Ser Leu Phe Asp Leu Glu Val Glu Gly Asn Ser Ser
180 185 190

Ser Gly Gln Ser Asn Thr Ser Asn Thr Gln Arg Asp Leu Phe Glu Ser
195 200 205

Leu Ser Asp Val Ser Gln Asp Leu Glu Val Ile Leu His Gly Val Thr

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Thr	Arg	Asn	Asp	Asn 325	Gly	Arg	Ala	Glu	Ala 330	Leu	Pro	Ser	Phe	His 335	Ser
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Ala	Leu	Ser 355	Ser	Ala	Cys	Thr	Thr 360	Leu	Arg	Val	Ser	Leu 365	Arg	Leu	Leu
Ser	Glu 370	Ile	Glu	Thr	Ala	Leu 375	Gly	Ile	Ala	Gln	Glu 380	His	Gly	Ala	Ala
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Lys	Ala	Ser 435	Gly	Lys	Thr	Ile	Asn 440	Val	Leu	Arg	Arg	Cys 445	Tyr	Lys	Glu

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 35 40 45

Ala Gly Leu Arg Cys Val Tyr Ser Glu Arg Leu Pro Lys Arg Asn Leu
 50 55 60

His Lys Glu Ala Ala Ala Gly Thr Thr Arg Ala Thr Glu Thr Ser Gln
 65 70 75 80

Pro Met Thr Ala Thr Ser Ser Thr Val Phe Ser Ser Leu Ala Glu Thr
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Pro Pro Pro Tyr Cys Ser Pro Pro Thr His Ile Gly Thr Ser Ala Leu
 100 105 110

Lys Glu Thr Leu Ser Asp Ser Ser Ala Ala Ser Leu Gln Phe Leu Asp
 115 120 125

Pro Ser Ile Asn Tyr Asp Asp Pro Glu Ser Phe Pro Gly Gly Trp Pro
 130 135 140

Gln Pro Asn Thr Phe Arg Asp Glu Ala Asn Ser Asn Asp Ser Ser Gly
 145 150 155 160

Ile Pro Asp Leu Gly Tyr Asp Phe Glu Gly Pro Leu Glu Pro Thr Ala

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

Ile Leu Gly Ala Asp Asn Lys Thr Ile Thr Pro Ala Ala Arg Leu Leu
405 410 415

Ser Met Val Trp Ser Asp Glu Ala Gly Asp Glu Glu Pro Lys Ser Thr
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Lys Ala Ser Gly Arg Thr Leu Ala Val Leu Arg Arg Cys Tyr Arg Asp
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Ile Phe Ser Leu Ala Arg Lys His Asn Ile Ala
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Phe Arg Arg Ser Cys Asp Arg Cys His Ala Gln Lys Leu Lys Cys Thr
 20 25 30

Gly Ser Asn Ala Asn Leu Val Arg Ala Gln Cys Gln Arg Cys Gln Gln
 35 40 45

Ala Gly Leu Arg Cys Val Tyr Ser Glu Arg Leu Pro Lys Arg Asn Leu
 50 55 60

His Lys Glu Ala Ala Ala Gly Thr Thr Arg Ala Thr Glu Thr Ser Gln
 65 70 75 80

Pro Met Thr Ala Thr Ser Ser Thr Val Phe Ser Ser Leu Ala Glu Thr
 85 90 95

Pro Pro Pro Tyr Cys Ser Pro Pro Thr His Ile Gly Thr Ser Ala Leu
 100 105 110

Lys Glu Thr Leu Ser Glu Pro Ser Ala Ala Thr Leu Gln Phe Tyr Asp
 115 120 125

Thr Ser Ile Asn Phe Asp Asp Pro Glu Ser Phe Pro Gly Gly Trp Pro
 130 135 140

Gln Pro Asn Thr Phe Arg Asp Asp Ala Asn Ser Asn Glu Ser Ser Gly
 145 150 155 160

Ile Pro Asp Leu Gly Tyr Asp Phe Glu Gly Pro Leu Asp Ala Thr Ala
 165 170 175

Pro Val Ser Pro Ser Leu Phe Asp Leu Glu Val Glu Gly Asn Ser Ser
 180 185 190

Ser Gly Gln Ser Asn Thr Ser Asn Thr Gln Arg Asp Leu Phe Glu Ser
195 200 205

Leu Ser Asp Val Ser Gln Asp Leu Glu Val Ile Leu His Gly Val Thr
210 215 220

Val Glu Trp Pro Lys Gln Lys Ile Leu Ser Tyr Pro Ile Gly Asp Phe
225 230 235 240

Leu Asn Ala Phe Gly Arg Leu Leu Leu His Leu Gln Glu Arg Val Ile
245 250 255

Thr Ser Ser Asn Ser Ser Met Leu Asp Gly Cys Leu Gln Thr Lys Asn
260 265 270

Leu Phe Met Ala Val His Cys Tyr Met Leu Ser Val Lys Ile Met Thr
275 280 285

Ser Leu Ser Gln Leu Leu Leu Ser Glu Val Met Lys Ala Gln Pro Cys
290 295 300

Gly Gln Lys Gln Ser Thr Arg Met Asp Trp Tyr Trp Ser Gly Ser Thr
305 310 315 320

Thr Arg Asn Asp Asn Gly Arg Ala Glu Ala Leu Pro Ser Phe His Ser
325 330 335

Asn Leu His Ile Gly Glu Leu Ile Ser His Leu Asp Pro Phe Met His
340 345 350

Ala Leu Ser Ser Ala Cys Thr Thr Leu Arg Val Ser Leu Arg Leu Leu
355 360 365

Ser Glu Ile Glu Thr Ala Leu Gly Ile Ala Gln Glu His Gly Ala Ala
370 375 380

Ala Ser Ile Arg Leu Val Leu Ser Asp Met Pro Ser Thr Ser Trp Gln
385 390 395 400

Ile Leu Gly Ala Glu Asn Lys Thr Ile Thr Pro Ala Ser Arg Leu Leu
405 410 415

Ser Val Leu Trp Ser Asp Glu Ala Gly Asp Glu Glu Pro Lys Ser Thr
420 425 430

Lys Ala Ser Gly Lys Thr Ile Asn Val Leu Arg Arg Cys Tyr Lys Glu
435 440 445

Ile Phe Ala Leu Ala Lys Lys His Asn Ile Ala
450 455