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UniRef90_I0JQB7	R	V	L	A	T
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UniRef90_Q0SVH2	K	V	L	A	V
UniRef90_R7G133	K	V	L	A	V
UniRef90_A6CKK0	K	V	L	A	V
UniRef90_U5S966	K	V	I	A	V
UniRef90_K9ECK5	R	I	L	A	V
UniRef90_R6J3U2	R	I	L	A	V
UniRef90_R3WY44	R	I	V	A	V
UniRef90_W6N6M5	V	L	A	V	T
UniRef90_UP100046FC928	L	L	A	V	T
UniRef90_G7LY71	R	V	L	A	V
UniRef90_G5GPZ2	Q	L	L	A	V
UniRef90_H6LH00	Q	L	L	A	V
UniRef90_Q8CZE7	I	V	A	V	T
UniRef90_R6CHT3	Q	V	L	A	V
UniRef90_R5XL9	R	I	L	G	V
UniRef90_E9SR52	R	I	L	A	V
UniRef90_H1X6C7	R	L	V	A	V
UniRef90_D5T5B8	L	V	A	V	T
UniRef90_F3Y9E5	V	V	A	V	T
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UniRef90_V8C3L9	R	V	L	A	V
UniRef90UPI0003B76DEA	V	F	L	A	V
UniRef90F9VK15	K	V	L	A	V
UniRef90UPI0003712023	I	V	A	V	T
UniRef90N4WPX0	I	L	A	V	T
UniRef90UPI0002EAC93B	I	V	A	V	T
UniRef90R9BW13	K	V	L	A	V
UniRef90G4L8C5	K	V	V	A	V
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UniRef90S2LGD8	V	L	A	V	T
UniRef90R5G7N7	Q	V	L	A	V
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UniRef90R6CDV1	K	V	L	A	V
UniRef90E3H706	L	L	A	V	T
UniRef90R7J0R6	I	V	A	V	T
UniRef90Q9CGY3	I	V	A	V	T
UniRef90E1PT20	I	V	A	V	T
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UniRef90UPI00047E5610	K	L	A	V	T
UniRef90B7J2I6	K	L	A	V	T
UniRef90U2DAF2	Q	I	V	A	V
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UniRef90H1LX15	K	V	L	I	I
UniRef90L8A764	K	V	L	I	I
UniRef90R5IY7Z	V	V	A	V	T
UniRef90S1NEA8	V	V	A	V	T
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UniRef90I7L5Z5	V	V	A	V	T
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UniRef90E7NVR2	K	L	L	A	V

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UniRef90_UP10002E8E49B_VKNRLTDADI	A E A D A	V I V A A D T K V E M S R F F N G K P V I Q V K V G																																																																																				
UniRef90_Q08XD4_PLALTDPAKVGATADL	A V A S T D D L	V I A A D T K V D L A R F T G K R V Y Q G P I V S S																																																																																				
UniRef90_R7HCD8_AKNVLTTEQEAI	K E A D C	V I V A A D A K V P M T R F F N G K K V I E C P V S																																																																																				
UniRef90_UP100047E33D5_VEQELSYEDI	Q S A D A	V I V A A D K A V D L Q R F F G K P V L I K G V T																																																																																				
UniRef90_UP10003F8B0F3_UNIREF90_Q184R2_VENKLTAKDI	A E A D G	V I I A S D T K V E M D R F F D G K P V I E V P V K																																																																																				
UniRef90_R5N6S3_VENKLTDQEAI	Q E A D C	V I V A C D K V P M D R F F D G K K V I E C Q V S																																																																																				
UniRef90_UP100037842A8_VENKEFTEQEI	R E A D G	V I I A A D K T V E N T S R F F G G K R L L V V G V Q																																																																																				
UniRef90_UP10003B78FD6_VKNKLTPEDI	A Q A T A	V I V A A D K Q V E M S R F F H G K P V I Q V R V A																																																																																				
UniRef90_C3WAJ3_IKNINI	T P E D I	V I I A A D K N V E N P E R F F H G K P V I E V S V S S																																																																																				
UniRef90_D4XV95_AKNILSTQEAI	A N A K A	V I I A A D T N V E L N R F E G K R L L K T D V S S																																																																																				
UniRef90_D4YH24_VKHGLTKEDI	D K A D G	V I V A V S K N V P M G R F F N G K K V V E R P V A																																																																																				
UniRef90_H2FWY1_PVTAFQTQI	N Q A E L	V I V V A S S R E L D L S R F V G K P C F V I D D L Q																																																																																				
UniRef90_H1LX15_VENKLTKEDI	D R A E G	V I V A A D D K K V E I A R F D G H P T L F T K V A																																																																																				
UniRef90_L8A764_LGENELTARDI	E E A A G	V I I A A D T K I D K S R F F G G K P L I T V G V Q																																																																																				
UniRef90_R51YZ7_AKNVLTKEEAI	E K A V G	V I V A A D K N V E M D R F F D G K K I I R V P V S																																																																																				
UniRef90_S1NEA8_VANRLTADEI	K R A K G	V I I A A D K S V E M P R F F S G K P L L S R P V A																																																																																				
UniRef90_F0H2L5_VKNRLTSED	K N A D A	V I I A A D K K V E M A R F F D G K K L I Q R P V S																																																																																				
UniRef90_R512C0_AKNVLTKAEMI	A E A E C	V I V A A D T Q V P M D R F F D G K K V I I T S T K																																																																																				
UniRef90_I7L5Z5_IGNKLTAEDI	K K A K G	V I I A A D K A V E M D R F F D G K P L I L K P V A																																																																																				
UniRef90_UP100036CF94_VENEFTQKEI	E E A D G	V I I A A D K S V D K S R F F N L L L V E T G V Q																																																																																				
UniRef90_C8NI60_LGNRLTKEDI	Q R A T A	V I V A A D K Q V E M A R F F D G K P V I I T K V A																																																																																				
UniRef90_UP100047D33EB_AKDVLTDSDI	A D A D V V	V I V A C D C V D M G R F F D G K K V I I T S T K																																																																																				
UniRef90_E7NVR2_TKNELTAAEI	A E A D C	V I V A A D T Q V P L E R F N G K K L I Q C K V A																																																																																				

QUERY		90	100
UniRef90_A6NVH4	A G I R R P Q E L I E K A M N Q D A P I Y		
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UniRef90_U5S966	E G I R N P D K L L D R A V N G D A P V Y		
UniRef90_K9ECK5	D G I R K S E E L I T K A M N K Q A P I Y		
UniRef90_R6J3U2	D G I N K P D E L L D K A I N Q D A K I Y		
UniRef90_R3WY44	A G I N K P Q E L I Q K V L D G K A P I Y		
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UniRef90_H6LH00	D G I N K A D E L I D R A L A G D A P V Y		
UniRef90_Q8CZE7	D G I H K P K E L I Q E M L D G K V P I Y		
UniRef90_R6CHT3	D G I K K T E E L L T K A I H Q D A P I Y		
UniRef90_R5XL9	D G I H K A E E Q L I E Q I E R G N A P V Y		
UniRef90_E9SR52	S G I N K P G E L I Q R V V D G K V P I Y		
UniRef90_H1X6C7	D G I H K A E E L I K K I E A G E A P I Y		
UniRef90_D5T5B8	E G I R H P E A L L I D K A L S G D A P I Y		
UniRef90_F3Y9E5	D G I R K P E E L I K S A I N G K A P I F		
UniRef90_UP10004027B1A	Q G I R K P E E L I N R A V K Q D A P V Y		
UniRef90_V8C3L9	D G I H K P Q E E L I E D I I N G R A K V Y		
UniRef90_UP10003B76DEA	D G I N K A D E E L L D R A M N G D A P V F		
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UniRef90_U5LE96	D G I R K P K E E L I D R A V V K K D A P V Y		
UniRef90_R6CDV1	D G I H K P A E E L I Q K I E S G E V P V H		
UniRef90_E3H706	E G I R D P E G L I K K A L N K E A P V Y		
UniRef90_R7J0R6	D G I N R P Q E E L I E R V L S S D A K I Y		
UniRef90_Q9CGY3	H A I R D T E E L I N R A L S G K A P I Y		
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UniRef90_UP100041E2CC4	K G I H E P E Q L I T K A V E Q N A P I F		
UniRef90_UP100047E5610	D G I R K T K E E L L D R A V V N Q D A P I Y		
UniRef90_B7J2I6	D G I H K A K E E L I Q T I L K N E A P I Y		
UniRef90_U2DAF2	D G I S K P G E E L I A A V L E E K A P L Y		
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UniRef90_D3EDR0	D G I R K S E E L I R K A M G G E A P I Y		
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UniRef90_UP100046AB8DF	D G I N K A E E L I N L A V E Q K A P V F		
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UniRef90_K0LVM3	E G I H N P R G L I Q R I I N Q D A P I Y		
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UniRef90_B0S2W2	D A I R N P K D L I Q K I V D G K A K I Y		
UniRef90_R6M7N7	D G I S K A D E E L I A K A L G G N V P I F		
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UniRef90_R7HCD8	D G I S K A D T L L I D R A I K G D V S I Y		
UniRef90_UP100047E33D5	S A I K A P E Q L L E D A L R Q P V V Y		
UniRef90_UP10003F8B0F3	D G M R R P K E E L I E Q I T T N K E V P V Y		
UniRef90_Q184R2	E G I H K A N E E L I Q R C I D G K V A I Y		
UniRef90_R5N6S3	D G I S K A D Q L V D R A I S G D V P I Y		
UniRef90_UP100037842A8	D G I R K P Q E E L I K R F S E G E V P V H		
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UniRef90_D4XV95	S A I K N P Q N L L I N R A L N D N L S V Y		
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UniRef90_H2FWY1	P A L N D P R T W L I Q Q		
UniRef90_H1LX15	D G I N K P K E E L I Q T I L D G K A S I Y		
UniRef90_L8A764	E G I H H A D E E L V R D I L A G K A P V Y		
UniRef90_R5IYZ7	E G I R N S E A L I V K T L N K E G K I Y		
UniRef90_S1NEA8	D G I K K S H D L I Q T I L D G K A E V Y		
UniRef90_F0H2L5	D G I R K S E E L V K D A L D G K F S V Y		
UniRef90_R5I2C0	D G I S K A E E L L T K A A N G H A S I Y		
UniRef90_I7L5Z5	A G I R E P E N L I K E A L S G N L P T Y		
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UniRef90_E7NVR2	D G I N K A E T L I E K A M R G D A S I Y		

1                    10                    20                    30                    40

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UniRef90_UPI000404DAEE	K I I A V T A C P T G H T Y L A A E S L L K T A K E K R I I E I K V V E T R G A V V G	
UniRef90_D4W8Z8	K I V A V T G C P T G H T Y M A E E A L K K A A K E L L G V E I K V V E T N G A V V G	
UniRef90_R9RAU9	K I L A V T A C P T G H T Y M A A E A A L K E A G E K L L G V D I K V V E T N G A D G	
UniRef90_A5I3B6	K I I A V T G C P T G H T F M A E E A L K K A A K E L L G V D I K V V E T N G A V V G	
UniRef90_I8UCU2	K V L L A I T S C P N G H T Y M A E E S L R K A G E A L L G V E I K V V E T Q G S I V G	
UniRef90_B5Y740	K M V A V T A C P T G H T Y M A A E S L E K A A R E L L G V E I K V V E T E G S S V V G	
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UniRef90_UPI00035FA9FF	R I V A I T S C P T G H T F M A A E G L Q Q A A K V L G H H Q I R V V E T Q G S V G	
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UniRef90_B9DK53	V L L G V T A C P T G H T Y M A K D A L L K Q A A K M G V K M V E T N G S G G	
UniRef90_F4DE40	I I V G V T G C P A G H T Y L A A E S L E R A A K E L L G Y E V K V V E T N G S S G	
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UniRef90\_F8F8Q6  
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50 60 70 80

Position	Residue Conservation
50	Conservation (black)
60	Conservation (black), Asp/Gln (red)
70	Conservation (black), Asp/Gln (red)
80	Conservation (black), Asp/Gln (red)

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90 100

H A | L K R P K E | L I E E S [L| N N A P | Y  
Q A | I R A P K E | L I E K T L N G E G E | Y  
D G M | K R P E | E L I Q A A L D G E A P | Y  
D A | I R D A A G V L N R A L G E A T P | V  
D G | N H P Q E L I E D I L E N K A P | Y  
N G | K [P E E L I Q T V L D G K A P | Y  
D G | N K A D Q L V Q E A L S G K A P | V Y  
P A | S G G Q Q A L V E R A L A E A Q V Y Y  
K G | H E P E Q L I Q T I I D G K A T V Y  
S G | Q E P E K L I Q Q V L D G K A A I Y  
P A | Q D G Q A L I R R A L A E A  
D G | M N K A E E L V K A C L N R A V P V  
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E G | R N P K A L I E R I Q A G D V S V H  
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R G | R D A E S L I R T L M N G E A P | Y  
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D A | K D P K G L I D R A L D K A  
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UniRef90_I4N113	A[A]L[Q]D[A]E[G]F[L]R[Q]A[A]E[Q]A
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50            60            70            80

I E N Q F T Q E D I D N A E V I I | A A D K N V D S N R F A G K K V I N V S V S  
 A R D I L D D A D L A A A E L V I I | A A D T H V E M T R F A G K A V H E T T T S  
 A E N V L S A A D I A S A D L V I I | A S D I K I D P I R F T G K R L Y V T K S I  
 T E N A L T T E K E I A E A D L V I I | A A D S D I A I D K S R F I L G K K L F E T D T N  
 N E K L T Q A D I D A A D A V I F A V S V N V V E R N R F A G K P F I E S P V K  
 V G N P I T P E E A A A A D L V F V A A D I D V D L S K F K G K P M Y R T S T G  
 T E N K L T R K E I I A K A D F V I I | A A D V H V D T G R F S G K P L F E T R T A  
 A K N V L T T E R E I I A E A D A V I I | A A D V H V D T G R F S G K P L F E T R T A  
 A K N A L T T P E E I I A E A D A V I I | A A D T G V D R S R F G G K R I V V A G T G  
 V E N E L T D E D I E N A D Y V I I | A T G R G I V N D E R F F E G K K I L N I D V T  
 V E P L E D A D I A R A D A V I F A T D V G V E K A R F A G K P V I E S G V K  
 R K D E I T K E D L E K K A S G V V L A I N K S V N E E R F F N G Y Y K V I K V G A K  
 V E N E L T P A D I E E A V A V I I | A A D A K V D E E K F Q G K P I V R S S T G  
 V R N D F T E G E I K E A E V I I | A A T D I G L D M A R F S G K K V Y N C P V A  
 A K N L S T E K A I E V I E V I V A A D I G L D Q R F K N K R I Y Q T N T K  
 I E G R L T A Q Q R D A H C I F A A E V A V E A R F A H L P C L S V P V A  
 T D N K P S E A A I Q Q A D L V I V A A V G I P V N L D V Y A G K R L L Q I P V T  
 I Q D E L T A D V I A Q A D G V I F A T D I A P K R E R F A G K P Y V Q T R V A  
 P V T P V D D A T L E A A E L V V V A A E R I P E A A R F A G K R V F Q A P I D  
 V E G T F S E Q D I K R A D A L I | A A D T T I D T A R F S Q N T Q H L K I R T Q  
 V K N K L S S R Q D I A S A D A V I I | A A D T D V P I D A E R F S Q N T Q H L K I R T Q  
 I A N R L S S E S E A N C K G V I L A L D R N I D L S R F K H Q N V L E V S T G  
 V K N A L T A Q E I E D A A A I V A A D K Q V E M D R F D G K H V I Q V P V A  
 A R D P L D A A A A A A A D V V L L A T D I E V D T A R F A G K K V F R C G T G  
 V E A P L Q G A E I A A A D V V L V I A A D L R I E D V R F V T K P V Y R T S T A  
 V E D E L S A A D V A D A D F V I I | A A D V A V D E E R F F N G K P V L Y A K T A  
 S T P L D P A V I E A A A D V I F A T D V G V D R G R F A G K P V V E Y G V K  
 I D N K L T L E D I K N A K G V I L A I D R E I E K S R F A N E N I I E I S T Q  
 I E D R H T D E Q L Q K A D A A A I F A A D V A V N E E R F S H L P I Y R T T V A  
 S T P L A Q S I I D S A D A V V F A V D V D V D R G R F A G K P L I Q V P V K  
 I E D R I T D E D L N N A H A A I F A V E V A V E A E R F D G I P A V E T A V A  
 Q E N E L S S D A I A E A D A V I I | A A D T S V N Q D R F E G K P V V T A P V K  
 S T P F A P E T I A A A D V V V F A T D V G V K R D R F V G K P V V A S G V K  
 N S T L T E Q Q I A D A E L V V V A T S L P I K L E R F R G K P L Y R D Q L S  
 V K H R L T K E D I E R A D G V I V T A D K K V E M A R F N G K P L N R P V I  
 S T P L D P A I E A A D G V I F A A D L E V D K E R F A G K P T I D V G V K  
 V E N A L S S Q E E I A A A D A V I I | A A D K D V Q A E R F G K R L I E V S V A  
 S K N V L S S R D I E K A K G V I L A I D R E I E K Q R F N S E N V I E T S T R  
 P V I Q P V S A E A I A A A D L V V V A A D H V P D P Q R F K G K S L F R A T I D  
 C D N Q L T A E E I A A A D I V V L T N D I G I N E E R F F N G K V I I R V G I S  
 A K N V L T A Q E I E A A D D C I V I A A D A Q V P M D R F D G K K R V I E C Q V S  
 T E N E L T A A E I K N A D V V V I I | A S D I T V D K S R F V G K K L V E V D T N S  
 I E N E V T P A Q I K A A Q V V V I I | A A D K D V N A E R F F A G K P M V S V G  
 T E N V P T R E E I E R A E G I I I | A S D K E T D M E R F R G K Q V V T T V K  
 V E N A F T V E E I E R D A A A V V V A A D M K I I D T A R F A G K Q V I N V A V G  
 I I Q N Q L T E S D L N N T K G I I | A C D R L I D L T R F Y G H N V V E V S T T  
 V E N A L T A A E I A D A D I V V L L A T D I G I D E A A F A G K P V H R A T T S  
 I E N R I T P E V L Q G A E A V F A T D I A A D K H F R N G M P F I Q R R V A  
 A K N R L T A Q E I A D A D I V V L L A H D V R L L D E R F K G L P V V D V P V A  
 A Q D T L T P A E I A A A D A V I L A A D V K V D E G R F A G K K R I V R A S I G  
 P E N Q L S A E T L A A A D W V L V V I K S G A L D L S R F A G K K R L F L A S P S  
 I I N R I T P K D V A N A R C I L A H D V A I K R F A N E I I D V K T K  
 T E N V L T A E E I A A A E G I I I | A A D R Q V D L S R F F N G K P P L K E S V R  
 T E D N L T A D E I K A A D F V V L L A I D V A I D M E R F V G K R V V F S T T A  
 A T P P L T E A D I A A A D A V L V A A D T E V E A S P F A G K P V H R T T T A  
 A E N P L T E K D I E E A K A V V I I | A A D T N V S K E R F V G K P L V E A G V Q  
 T E N K L T K R E I A K A D Y V I I | A A D V V I E P E R Y G K W V L K T R L K  
 A Q D P L T A E E I E A A D V V I L A C D I E V D P S R F A G K K R L W R T S T G  
 T G K L T K E Q I E E A D A V I F A H G V A V E I E R F A G K P V V D V P V K  
 N R N Q L M P E E E A N A K A V I V A A D R A V N I D R F I G K R M V R V G V V  
 V K N K L T A H D I A T A D G V V L L A I D V P I D M E R F D N A N P M K V R T Q  
 V E N G L T E D D I A G A H A I I I | A A D T D A D E G R F V G K P I V K A S V G  
 V E N A L T E Q D I A E A H A I I I | A A D T D A D E E R F F A G K K P V I R A G V S  
 A K P L D P A V I K A A D T V I F A V D V D K A R F A G K K P V I N V P V K  
 A R N P L T A A E D I A A A D V V L L A T D I I E V N T E R F F A G K K R I F R C G T G  
 V E N R L T S K D V E E A D A V I V A H D V K V D T T I F G E K P F L D V P V K  
 V T P V D P A I I A R A T A V I F A V D V D V D R A R F A G K K P V I Q S P V K  
 V E G A F S E A E I E R E A S A V I L A A D V A V A K D R F A G K K R V L A T A V D  
 V E N K L T K A D I E N A K V I L A H D K A I L M A R F N G V K V L D T T T K  
 I I E D K H K V A D I K N A D G V I F A C D I A A N V E R Y N G K N F I K V K V A  
 I I E D R L P Q E A L D A A V A C I F A A E V A I E Q E R F F A G K P R I E T P V A  
 I I G N E L T Q A E I D A A D V V L L A V A V S V E M E R F D A K R I L D V S P S  
 V E D E L T A A E I A G A R A V I V A A D K D V D A D R F A G R P Q V S V S V S S  
 A T E K L T Q S A I E A A E L I I | A V G P V S D M A R F T G K K V Y Q A E L S S  
 V D D R L T D Q Q I D E A D Y V I L A L G K G I D R V F D G K K V V E L P V S S  
 A K N Q L T D E E I A Q A D L V F I G A D I E V D M A R F D G K R V Y R T S T S  
 S A P L D A A R I A E A D A V V F A A D V D V D R E R F F A G K P T V T A G V K  
 N E N V L T T A D I A N A K G I I L G I D K K I G M D R F K D V S Y L E T S T K  
 A R D A L T A A E I A A A D V V I L A A D T G V D R S R F D G K R L Y A T N T K  
 A K D V L T A A E I A D A D A V I I | A C D K N I E M G R F D G K R V I I Y A K V  
 V E N S P T A G E I A Q A E C V I I | A S D R A V E M S R F D G K R I I Y A K V  
 I I E D R H T M K E I I Q E A D A V V F A V D T K V D Q E R Y V A G L P Y V Q T R V A  
 I E N E L S E E D I D R A D M I I L A V S I Q I E E R F E G K N V Y Y G N V D  
 M V D P H T P D I K R A D A I Y A T D V P K N T E R F E H L P N I K T S V A  
 I E D R P S V S E I K K A K G I F A H D V E L D L S V Y N G L P Y I D T S V S E  
 P N K P A S V S D I E A A D L V T V G P V A D M A R F N G K P V Y Q A S L E  
 S T P L S A E E L A Q A D V A I L A A D I G V K R E R F A H L P I V E G P V K

90 100

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UniRef90_W7BN09	H A L   K D A S   V L L   S E A M E K A
UniRef90_D2NQZ3	R G I   D E P K E M I A   E A A   L A E A
UniRef90_A6VKG9	L A L   K K T E Q E F T K A F A   D A K   Y
UniRef90_R5G711	P V L   K N T E N I   F E R   L E E E
UniRef90_B4D0F6	E A I   R N T A T V I   E S A L
UniRef90_D5RPM9	D A L   K D G K G L   I N R A L   A A E
UniRef90_L0II0	D V L   K K A G E   I I   E T   L   P K E A K   Y
UniRef90_K7RTU7	R A V N   N E P K K M I   E E A V   A A A
UniRef90_D1AWC9	D G I   N K A K E   L   L   D T L   S G K G T   I
UniRef90_Q2RMI6	E A I   K N A K T   L   I   D K T   L   S   E G K
UniRef90_A0A037UQY7	K A I   K D P E G I   I   N A A L   K E
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UniRef90_E4PI03	A A L   P D P D A I   L   T R A Q A   E A T   P
UniRef90_A4ITA8	E P L   K H A K Q   I   I   H   K   V   L   H   Q
UniRef90_E1V8C4	Q A L   P D P E A F   L   A R A E   R E A R   P
UniRef90_D8KNF0	Q A I   H E P N S   L   L   H   R   V   L   D   T   A
UniRef90_R8X3C5	E L I   K N T E R Y   I   R Q A   L   A
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UniRef90_P23387	R A V   T   Q   T
UniRef90_G6CGG0	E A I   K D S D T   L   I   E K A   L
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UniRef90_M7MZV6	R G I   D E P A K   L   I   N D A   I   A
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UniRef90_F1YMT9	R A I   N E P D A M   I   M   A E A V   R T A A A
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UniRef90_J3FA18	D G I   K K A   Q D   Q   L   I   D   D   A   L   A   G   K   G
UniRef90_Q98R81	E A I   H   N   P   K   N   L   I   E   K
UniRef90_UPI0002DCEF45	Q A L   P D P G G   F   L   E   R   R   A   R   R   E   A
UniRef90_C4LFZ1	E A V   K K T   G   A   L   M   D   K   V   E   A   Q
UniRef90_R7B049	D G I   S   K   A   P   E   L   L   E   R   R   A   S   G   E   V   P   V   Y
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UniRef90_U2UC03	K A I   K K A   E   A   L   I   I   D   Q   A   L   T   A   Q   A   S
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UniRef90_X5DPT9	E G I   K K   P   A   E   L   L   R   S   A   L   D
UniRef90_G4L7H0	R G I   K   E   A   D   Q   L   I   I   D   D   A   L   A   G   K   G   E   V
UniRef90_P75039	K A I   K   T   P   Q   T   V   Y   D   Q   V   V   K   K   E   G   K
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UniRef90_W7D8Q4	D P L   R   N   G   K   E   M   I   E   T   V   L   S   K
UniRef90_V2UPJ2	F A L   K   Q   T   D   K   A   F   A   S   A   I   Q   E   A   K   V
UniRef90_F8I1Y0	S A I   Q   D   A   A   G   L   I   Q   S   A   L   A   Q   P   A   P
UniRef90_E3DMU1	D A
UniRef90_V5EEV8	E A L   R   N   V   P   K   I   M   D   N   L   K   N   E
UniRef90_F6IXS4	E P I   R   D   A   D   A   V   L   D   K   M   I   S   K
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UniRef90_C0EX23	P L L   K   N   T   Q   G   V   F   E   R
UniRef90_W5YN42	S A L   K   K   P   G   P   T   I   I   D   D   A   M   T   N   A
UniRef90_G0HH15	K G I   S   E   P   E   E   L   I   N   R   A   I   E
UniRef90_E8LWK1	D G V   R   R   P   L   E   L   I   T   K   A   L   D   P   N   C   P   V   Y
UniRef90_F9RS54	E L I   K   R   V   D   E   L   L   P   N   V   F   N
UniRef90_K8DXW4	E A I   K   N   P   D   K   L   L   E   E   A   L   N   K   K
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UniRef90_S6C8L5	R A I   D   K   P   D   L   V   V   D   Q   A   L   E   E   D   A
UniRef90_A5CR45	R G I   D   Q   P   D   Q   M   V   A   E   A   V   A   A   A
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UniRef90_B2TLM9	E P L   K   D   S   K   A   L   I   E   R   V   L   N   N
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UniRef90_E7N1M2	E A I   K   N   T   A   G   L   I   D   R   A   E   N
UniRef90_F2N835	K A L   S   A   E   A   A   L   I   I   D   R   A   L   A   A   E   G   T
UniRef90_D0IAK8	A C Y   S   D   A   K   Q   L   L   E   H   A   A   M   N   A   S   V   Y
UniRef90_U5ZGX0	E A L   K   H   I   D   S   L   F   D   D   I   D   D   N   K   A   V   V   L   H
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UniRef90_UPI00047D4983	D P L   R   R   A   K   E   L   L   L   E   A   T   S   T   T   Q   K   V
UniRef90_UPI0002E6F6AA	E A I   S   Y   P   E   R   I   L   D   K   A   L   E   H
UniRef90_T2XFG8	A P L   K   R   A   K   E   I   I   Y   E   A   L   E
UniRef90_K6PGJ9	D P I   K   D   A   K   P   L   I   T   R   V   V
UniRef90_R1IP74	A C Y   A   D   V   K   Q   L   L   E   D   A   G   S   N   A   E   V   Y
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UniRef90\_F9UHJ4 R L I A V T S C P T G H S L M A A E A I K K T A A L M G H E I Q V E I H G A E G  
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UniRef90\_C3PGX0 R V A V T A C P T G H T Y M A A D A L T Q T A E R H D V E L T V E T Q G S S N G  
UniRef90\_B2GQF6 R L V A V T A C P T G H T Y M A A D A L A N T A Q E M G V E L Q V E T Q G S S S G  
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UniRef90_X2HCG8	Q V N K I S Q A E E V D E A D F V L L A T D Q K V D M D R F K D K P Q L K V S I A
UniRef90_E2S135	A E N E I T E E D V K T A D V I L I A V G C A V E M E R F D N K L I I E I D V A
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UniRef90_M4U1P9	A K N K L L S E T D I K E A D L V V I A A D I D I N L A Q F D G K K I Y Q T S T S
UniRef90_F2PDS4	I Q N R L L T A T D I A N A K Y V I L A H D I A V E A E R F N G V N V I E C S T K
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UniRef90_B6ESQ4	L M N K L T A K D V A N A K F I L A H D I P V E G E R F T N L R Q V E C S T K
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UniRef90_W0GKS8	F E D K L T S E D V K N A N V L I M A T D I N A E Q F V D I P I L K V A V A
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UniRef90_UPI00036086BA	G E Q L I D P A I I E K A E A V I F A V D V A V D K E R F A G K P F I Q T P V K
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90                    100

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UniRef90_D0GPJ7	E A I R E G K E  I L E E [ ] V N E
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UniRef90_B6ESQ4	G A M K T A L S L I  Q D N [ ] K
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UniRef90_UPI0003B3517E	D A M C N A E Y L I  Q S N L E
UniRef90_B0N883	D V I K D A V R V I  D Q A E N
UniRef90_R2R1H3	D C I N K G E A I  V K K L Q Q K L A K
UniRef90_X0PSF5	D L I G K S P  I V K K L M A K L A E V
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UniRef90_V5RLA3	P L I E D P
UniRef90_S0RBW2	[I A V K S P N K L  I E K A Q E
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UniRef90_E8VWH7	D V L L N V D K V F
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UniRef90_H3NBD7	Q C V S H A S D V I  T K C V A
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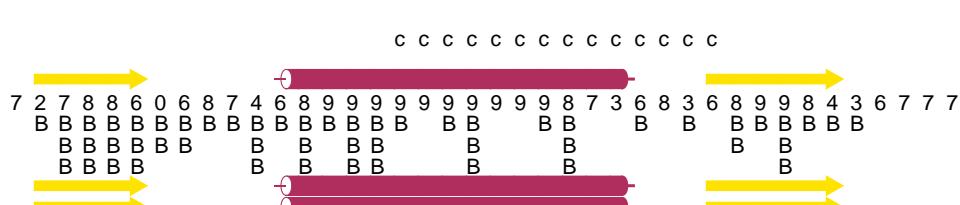
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UniRef90_R6FX73	P A   I   K Q A D A I   V A K M   S
UniRef90_V5F1H4	D A   I   K N A A G   L   F
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UniRef90_N2BUG8	N V I   R D A A A   V   I   D S   L   L   E Q
UniRef90_FOLNV0	A V L   V N V   H   Q   V   L   D Q   C   L   S
UniRef90_R1AWJ0	E A   V   K D A G K   V   L   D D A L K
UniRef90_U2UYH7	V A   I   H S P T A L   V   K   K   L   E E
UniRef90_C9CQS2	M V   I   K A P K R   L   L   E T   I   E E K
UniRef90_W5XR95	E A   I   K S P K E L   I   N K   A L N
UniRef90_S5KN49	L A   I   K A P K Q   I   I   N K   I   D K E
UniRef90_G7LJY3	V V   I   K S P   V   K   F   L   E K   V
UniRef90_E5VH39	D A   V   K K A D A I   V   E K   L   E A
UniRef90_UP100031E6495	E V   L   T N P E T   V   L   K   N   C   L   K   H   A
UniRef90_J8V1R8	Q A   L   A D R E G   F   L   D E A
UniRef90_I0U4H4	
UniRef90_UP100046E4CE2	T F   L   C   H   P   E   K   I   L
UniRef90_A3UUH5	E V   L   L   S   V   D   K   V   F   I   K
UniRef90_V5XPT0	A P   I   K   N   A   E   K   V   I   E   E   A   L
UniRef90_UP1000474F4CD	L F   L   L   E   P   Q   K   V   L   D   E   V
UniRef90_U2VB38	L A   I   K   A   P   K   Q   I   V   A   K   I   H   Q   E   L   G   K
UniRef90_M0B8U6	E A   V   N   D   A   G   G   L   I   D   Q   A   V   H   Q   A
UniRef90_E7I1T1	
UniRef90_X5G308	E   V   V   R   D   P   A   A   I   I   D   R   A   E   K
UniRef90_T0U2F1	
UniRef90_W8UV06	T A   V   K   S   P   N   K   L   I   E   K
UniRef90_C9ABI9	L V   V   K   S   P   S   K   L   I   E   K
UniRef90_A6VLW3	N A   I   K   H   I   V   D   L   I   D   K   A   E   A
UniRef90_H2IF98	D A   V   K   R   A   A   V   M   D   K   I   E   A   H   L   A   N   V
UniRef90_UP1000372EE64	E   V   I   K   N   P   S   K   V   L   D   E   A   I
UniRef90_S5KBY0	Q   C   V   A   N   G   E   A   V   L   S   K   V   V   A
UniRef90_UP1000465434B	T   V   L   H   T   K   E   F   I   L   S   N   L   E   K
UniRef90_R4Q418	M   C   I   K   K   P   K   A   V   I   D   K   V
UniRef90_J3A0K8	M   V   V   K   A   P   K   Q   L   L   E   K   I   E   A
UniRef90_UP100031D5A5C	A   A   I   N   R   P   A   E   L   I
UniRef90_A6D1Q5	D   F   L   R   S   P   E   L   A   I   N   A   I   E   R   A   K   V
UniRef90_U5F6L1	D   V   I   K   D   P   S   I   I   L   K
UniRef90_Q47597	Q   A   L   K   N   I   D   Q   I   F   S   E
UniRef90_B0MB98	T   V   V   M   S   P   N   K   L   I   E   K   I   E   E
UniRef90_U2U8B1	Q   V   I   K   S   S   D   A   I   V   A   K   V   Q   K   E
UniRef90_U7RDC1	A   L   K   Q   A   R   A   T   L   D   K   A   L   A   E   A
UniRef90_UP10004691AFB	E   A   L   Q   D   P   Q   R   F   L   R   E   A   N   E   H   A   T   V
UniRef90_R2SXH4	T   L   V   K   D   A   G   I   F   R   K   E   H   N   E   A
UniRef90_M0MA53	A   A   I   N   D   T   E   S   L   F   E   R   A
UniRef90_UP10003789290	R   A   I   N   E   P   A   Q   M   L   D   E   A   V   A   A   A
UniRef90_UP10001FFDE22	K   A   I   G   G   A   P   G   L   I   E   Q   A   V   A   K   A   G
UniRef90_C0BIQ8	K   A   V   R   D   P   K   S   I   L   D   Q   A   E   E
UniRef90_E1L338	D   V   I   A   K   G   S   E   I   V   A   N
UniRef90_K2WFC2	A   L   K   K   T   A   Q   E   L   S   N   A   F   T   Q   A
UniRef90_A9MI76	
UniRef90_Z4X8C7	A   I   A   D   P   A   K   V   I   D   Q   V   V   A
UniRef90_X2MS74	
UniRef90_UP100034D81EC	A   P   I   A   D
UniRef90_X8HQX4	E   V   I   R   R   P   E   R   I   F   E
UniRef90_C0CZN7	D   A   I   K   K   A   D   A   I   I   G   K   I   E   K
UniRef90_F7NLN7	A   I   K   S   P   K   A   L   L   N   K   I   Q   A   E
UniRef90_UP100041AD89C	R   A   I   A   D   P   D
UniRef90_D4MXJ8	E   V   I   K   D   P   N   I   F
UniRef90_U4KKE1	D   A   I   S   N   A   D   A   L   F   E   K   I
UniRef90_R7G6P7	V   I   K   D   P   N   I   I   F   E   D
UniRef90_K1SQF9	D   G   I   H   K   P   E   E   I   I   H   K   I   T   S   G   E   V   P   E   F
UniRef90_L6MJ0	A   L   K   K   T   A   Q   E   L   Y   K
UniRef90_U2YSA1	A   G   V   N   R   A   G   E   M   I   E   R   A   V   E   A   A
UniRef90_C8NFL9	E   M   I   K   H   P   E   K   Y   I   D   E   A   I   K
UniRef90_R6UKH8	V   I   R   D   P   A   E   I   I   D   Q   A   E   K
UniRef90_V4UZS0	E   A   L   A   D   P
UniRef90_J3AMW9	
UniRef90_T4FK89	
UniRef90_A0A022LMQ3	R   G   V   D   E   P   D   K   M   I   A   E   A   I
UniRef90_T9WX89	Q   A   I   R   D   P   N   D   T   L   S   A   A   I   A
UniRef90_UP100030CC449	K   A   I   R   N   I   P   A   I   M   D   K   A   E   E
UniRef90_C9P8L9	E   V   L   T   N   V   Q   L   V   I   D   Q   C   L   K
UniRef90_D1AIC2	E   I   I   K   K   P   D   I   I   F   E
UniRef90_K8QV02	V   I   K   S   P   I   Q   F   L   E   K   V   E   K
UniRef90_H4Y2P5	D   A   I   K   N   A   A   G   I   I   K   E   I   E   E   M   I   A   S
UniRef90_R5ZMT3	
UniRef90_E3ZB95	E   P   L   R   S   G   K   E   M   I   E   T   V   L   S   K
UniRef90_J6CM55	
UniRef90_UP1000463F775	E   S   D   K   A   E   I   L   L   H   Q   A   V   N   E   E   I   D   I   F
UniRef90_UP100047BA948	F   V   I   D   N   A   K   A   V   L   K   E   I   S   S   E
UniRef90_I4ZM15	D   A   I   K   N   A   A   G   T   L   K   E   I   E   E   M   I   A

UniRef90\_T4VLB6  
 UniRef90\_U2V2B3  
 UniRef90\_A6FGR0  
 UniRef90\_UPI000169A819  
 UniRef90\_UPI000375D858

1	10	20	30	40
K I A I V T A C P S G S S L I A A G L L E K A V A E L N W Q A D I E C H S S V A G		N K L Q E S A K E F N Y N I E F E Q N E D T V E T Q G S A G		
		L K E A G S K F G I I V N Y E I Q N E K G		

lupas\_21  
 lupas\_14  
 lupas\_28  
 jnet  
 conf  
 sol25  
 sol5  
 sol0  
 jhmm  
 jpssm



UniRef90\_T4VLB6 | I I N E I | S E K D I | K D A S A | V L F | V I N R G | I E E E R F | I D V E Y Y E | V | E P C  
 UniRef90\_U2V2B3 | V E F G L | T E D N V | N G A D | V A I | I A A D | V A V G E | D R F K G K M | L V H | V P T N  
 UniRef90\_A6FGR0 | P V T S L | T Q Q Q I | A A A E | C I V I A A  
 UniRef90\_UP1000169A819 | V E N K L | T A E D V | A A A D | M V I | L T K D I G | I L K E R F A G K | V I V R I | A V S  
 UniRef90\_UP1000375D858 | I I N K I | S K N I | I O N S N | L V | E I T F K E I | F O Q E R E I | D R E Y Y E | V I P

lupas\_21  
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jnet  
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sol25  
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jpssm

UniRef90\_T4VBLB6      
  
 UniRef90\_U2VB3

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