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

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

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

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

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

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

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

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 M P L G K L S K S N I Q K G F E A L T E I Q N L L K T T S P D L I N A S N R F F
 M P L G K L S K N Q V K M A Y K A L T Q I Q D E L D K K N K N V V E L Q R L T S E F Y
 A P L G K L T P G Q I K A G Y E A L K E V S D Y V K H L S D K L L H A C N T Y Y
 M P L G K L A A T T I K K G F D V I Q D E L D K K N K N V V E L Q R L T S E F Y
 A P L G K L T P G Q I K A G Y E A L K T V S D C I E L E K C T L Q A C N T F Y
 M P L G K L S K S N I Q K G F E A L T Q I Q D L L S S T A Y A I V D A S N K F F
 M P L G T L S A S Q I A K G V A I L E S L Q A R T D G S I A E L S S K F Y
 M P L G K L S K E N I E K G F E A L T E I Q N L L K D T A D Q I V A A S N R F F
 M P L G T L S L Q Q I K Q G V A I L D E L Q A N L T T P N A T R T T L S S K F Y
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 M P L G K L S K N T M L R G Y G I L Q S L S D L M Q T A G D A V E A L S N Q F F
 M P L G K L Q R R T T L Q Q A P A A L A R H R P R P P P S P V V E L S N Q F Y
 Q P L G K L A Q S T I L Q G F Q A L K D L A E V I A E P D T A C A T L T S R Y Y
 M P L G K L A E Q T I K Q A Y L V L N E L M E A I K N N E T S F E R L S S S F Y
 A P L G K L S K S Q I R A G Y T A L D K V S Q M I D A L S A L S Q E C C N D F Y
 M P L G K L S K L Q I A K G F E V L E E I E G A M N Q K S K N S E E L I S S K F F
 L P L G K L S K S T I L K G Y D V L K R I S I V I S R A D R R Q E Q L T G E F Y
 M P L G K L S K D N I N K A Y G I L K D L Y D E V E K Q D K K I A T M C N D F Y
 L P L G K V D K T I T Q A F Q V L K E I E E A L K K N S A D L L V E L S N R Y Y
 A P L G K M S T S I L L K G L E E L R K I V S E A I A Q P D T K C L Q Y S S R Y Y
 M P L G S I S T A Q I K R G Y E A L T R V I A T Q L Q T P A A D L L T T H F Y
 A P L G Q L T E R Q I S S N G F S T L K V I E R L I S C N G S S L V E A C N T F Y
 A V S D G G S D S Q I N P N A A Q I R R R L K N S L K T L T S D F Y
 L P I D S I S K R Q L Q E G Y A V E D S E Q I N T L K H Q T R I A D A T N R F Y
 N P L G R L T F D Q V Q K G Y K I L T E I Q N A L L Q G S R T I E L T N Q F Y
 L P L G K L S K T Q I S Q G Y A L L Q Q L S E A I K K P N A A Q I R R S S E F Y
 G S A G K L T V A Q I K A G Y Q S L K K I E D C I R A G G R A L V E A C N E F Y
 M P L G K L S Q N Q I I N K A Y E V L N R I Q E L L H N I K S E I M A E S S K F Y
 M P L G K L S K Q Q I A K G F E A L E T L E E A L K K S Q K Q L E E L S S S R F Y
 L P L G T L S K S T I L K G Y D V L K R I A D V I H L P D R K K L E Q L S G E F Y
 M P L G K L S S K Q Q I D K G Y A I L D R I S G A L Q D L A S L E A E K S S E F Y
 I P L K K K L S V D Q I K A A S E I I L N E L E N L D E D S R P S D V R L S S S Q F Y
 M P L G K L G N E T I I K K G Y S I L K K I A E A I N K K K C L L E G L S S S E F Y
 V S K S Q I A T G F E I L G E M K N V I D Q K K D R L T K M S N K F Y
 V P A K R T G T R R S T R V K R A A K P N A V Q I R R L K A G L K T L S S E F Y
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 L P L G K L A K S T I I L N G F T A L K G I A E V L A D P D Q A C V T L T N A Y Y
 L P M G K L T Q E Q V F K A Y K I L K E I Q T V L K N P E T L V M A L T N D F Y
 M P L G K L S R N Q I H E A Y D I L N S L S Q L I N K N T T Q I L S E S T R F Y
 I P L G R L S H N Q I D L A Y G V L K D L L N V I S E D Q M K I V D S T N K F H
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 A P L G K L T V A Q I K A G Y Q S L K K I E D C I R Q H G R A L M E A C N E F Y
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 M P L G R L S K D A I N N A V A I L G K N D D T L P P I N E S Q L E L S N K F F
 M P L G R I S R K G L T A A F S V L Q D D L Q V E L L M Q P R R A L A D L T N R F Y
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 M P L G K L T K A Q V H K G Y E A L E K I E N C L K S K K G A A E Q L C S A F Y
 L P I D S I S K R Q L Q E G Y A V L Q
 L P L G I L T E E Q I V A G E H V L R E I K Y I I E R N N S H N N I L C N E Y Y
 M P L G R L S H D T I H K A L V I L G K L K D A I T Q N G E E Q V D L S N Q F Y
 M P L G K L S K Q Q L G L A N R V L K E L Q A L L S Q P N N A V V D A T N R F Y
 I P I G M V T D L H L R R C E E T L K E F V E K L K K A D A F W A D F T Q R W F
 I P I G M L S N V H L N R C E E V L Q F I E A V K K A E A I W T D F S N R W F
 M P L G K I K L E Q M K E A M K V L S K L S D V I L S K D S E L D E D L T A K Y Y
 M P L G K L S K G Q L A K G Y A I L H T I S D T L N K C K A K L K A L T S E F Y
 L E A A L R A P A D G G L S L E E L S S H F Y
 L P M G M L S N I H L K R C E E V L K S I K E M D I K A K A T W S D F S Q R W F
 M P F G R L S E S A I N K G R N I L G E L K E L V T T K N K L E D D M S N R Y Y
 L P L G S L S E F H F K R C E E C L L E F A D F L K K H E Q M C L D F S N K W F
 M P L G R L S K T T I K K R G Y E E T L Q E I Y E A L R S P R S Q I L N L S S H F Y
 A P L G K L T K A Q I K S G Y A A L K K I E G L I K T S G D P L F K A C D E F Y
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 L P I G M L T D L H L K R G E E I I L K Q D A E S V P E S G P V W I E M S N K W F
 L P L G R L S L S Q I S S G Y E E M V S E L I D A Q A R L N R L V Q K L S D D F Y
 L P M G M V T D L H L E R C E E E L L I N F R E D I K K A P D S W L D F T N K W F
 L P M G M L S K F H L E R C E E I I L L E F I E K V K V K K A E A V W T D Y S N R W F
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	90	100	110	120
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UniRef90_Q9ZSV1	P S I H P H I I R D E D	D D D L M I K A K M L	E A L Q D I E I A S K I	
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UniRef90_W2RX48	P H A F G R S R P P L L	D A M D K I Q K E I D L L	D N L D D I R A S D D L	
UniRef90_R1FP30	P H V G A A N R L P L I	D T P S R L K A K I E M V	E A L G E I E L A S R V	
UniRef90_D8PU00	P H V F G R R I P T V I	H D A L V R A E L D L V	V S S L S D M A L A A Q L	
UniRef90_Q22MT0	P H D F G F Q K M F I I L	R S E E D Q V K Q K L E M L	Q N L E D L K I A T N L	
UniRef90_G4M0S9	P H D F G M R I P P V I	R T M S E E V K S K I E L L	E A L S D I E F A V N I	
UniRef90_F5BZN3	P H N F G R N R P P T I	N D K E T V E K K K E M L	M I V L A D I E L A Q T L	
UniRef90_M0VKE1	P H D F G F K K M F L I	D T P Q K L K A K L E M V	E A L G E I E I A T K L	
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UniRef90_X6NWC9	P H S F G F R V P P P I	E D L E M V K K E M E L V	E S L I E V A S R L	
UniRef90_M5FZ33	P H F G R T R P E V I	N T Q H L L Q Q E L N L I	D A L S D M E V V T S K L	
UniRef90_R1BLE3	P H K F G L D E P P V I	D S L P P M L K D K L D M V	E A L L Q V Q E S Q K L	
UniRef90_T1FWB0	P H C P M R R P P L I	T T D H L R E M K L L E V		
UniRef90_M7AHR5	P H D F G M K K P P L L	N N L E H I Q A K V Q M L	D N L L D I E V A Y S L	
UniRef90_U6H3F5	P H I F T H E K P P V I	D S L A L K L R T K I E M M E Q L L	E I S I A Q S L	
UniRef90_Q24FE8	P Q N Y G M R A L P M I	D H M T K V K E K L H L L	D V L K E I D I T N R Y	
UniRef90_V9EE10	P H D F G R N L P P P I	D S L D E V K L K I D L L E V L A N I E I S Q K L		
UniRef90_G1PS32	P H D F G L R T P P L I	R T E K E L S D K I Q L L E A L G D I E I A I K L		
UniRef90_G4ZZH6	P H D F G R N L P P P I	D S M D E V K L K I D L L E V L A N I E I S Q K L		
UniRef90_G4ZZH6	P H D F G R N L P P P I	D S M D E V K L K I D L L E V L A N I E I S Q K L		
UniRef90_Q8I7C5	P H R F L M S K I P P I	D N K E L L V K C I R L V D A L S E I E V V N Q L		
UniRef90_V8P8T9	P H N F G R N R P P S I	N T Q E V V Q A K K D M L L V L A D I E L A Q S L		
UniRef90_V4U5Z7	P H D F G F Q K M L V I	D T P Q K L K L K L E M V		
UniRef90_T0QFJ7	P H D F G M H L P P V I	D S I W E L K L K L D L L E V L S D V E I T Q R M		
UniRef90_R7QBU3	P R D F G R T R P P V I	S N P D M L Q K C Y D M C N V L L D M E K A T D M		
UniRef90_G7Y503	P I F R R G Y S H L I	A D D R T L L Q R K R E L L D I L T D I A V A Q T I		
UniRef90_A0CTW4	P H N N G Y S K I K S I	D T N Q D I K E K L E M L A S L E A I E I A T S L		
UniRef90_R7T4Z7	T H V H S F G R R E I P I I	A D Q E S V R E K M D M L M V L D N I K I S Q A M		
UniRef90_D0NWS2	P H D F G R N L P P P I	D S L D E V K L K I D L L E V L A N I E I S Q K L		
UniRef90_D0NWS2	P H D F G R N L P P P I	D S L D E V K L K I D L L E V L A N I E I S Q K L		
UniRef90_M5BTB9	S V I P H S F G R R H P T I I	D R P E I L K R E L E L V D A L G D M E I A N K I		
UniRef90_J9IR77	T M I P H S F G M K K P Q M I	D H L L R I K E K I K I L I S V Q H M A I A Q N L		
UniRef90_Q5DAZ0	T L I P H D F G M E T P P L I	D N K K I I T K K I R M L E D L L E I E L A Y K M		
UniRef90_E3MAH0	T I V P H N F G F K L P E L I	D T L D K V N E K V D D L L K A I I G D L Q		
UniRef90_C5KAC1	T M V P H S I P P G V P P V I	D N E H I D Q K V E L V Q S L M D L E S Y S V		
UniRef90_UP10002C36F12	T R I P H D F G			
UniRef90_V517F6	T F I P H S F G V D D P P I	L R D S E V I K		
UniRef90_G0PJ28	T I I P H N F G M K V P E P I	D S F H K V K A S F K T I E S		
UniRef90_C4M5X0	T F V P H V I N G N I I P M I	D N D E K I N K E L K L V E T M C D V G E A M K L		
UniRef90_UP10003F07745	T R I P H D F G L R T P P L I	R T E K E K L S E K V Q L L E A L G D I E I A I K L		
UniRef90_G7YA32	T R I P H D F G M R V P P L I	L T M D E V K E K L E L L E A L D D I E F A V N M		
UniRef90_F0ZDM9	E L I P H D F R T E K M Q V L	R H Q H E I A T K I K I L L Q N L D E M E T V S K I		
UniRef90_C5K7U0	T M V P H S I P P G V P P V I	D N E H I D Q K V E L V Q S L M D L E L S Y S V		
UniRef90_K7K5Y1	T V I P H D F G F K R E F V I	D T P Q K L K R K L E M V E A L A E I E V A T K L		
UniRef90_G0QU41	T N I P Q N Y G M K Q L P I I	D H Q V K R E K I Y L L D I K E V D I T N K Y		
UniRef90_S9VI32	T I P H D F G R S V P P V I	I S D S T Q L S K K		
UniRef90_U6LKT5	F T H A E K P P V I	D S L A K L R T K I E M M E Q L L E I S I A Q S L		
UniRef90_E4YIW1	S K I P R A F G K N Y A H L I	D S L A K L Q K E F D F I E A L K Q I N I A A T L		
UniRef90_D3BNU0	E L I P H T F A T Y K M E V I	L S D I R L I G A K I Q L L Q N L D E L E I V S K I		
UniRef90_W9Z646	S F I T H A F G R K Q P P I I	R D E N L L K K E L L Q S L P D M Q V A A D L		
UniRef90_H3ERG9	T L L P H N F G L G A P E M I	N T K A I I E K K A K L I E N L T D I A V A V D L		
UniRef90_M1ABL8	T L I P T T R P F P F K D Y E E L	A D Q A S S Y E A I R D I N T A S R L		
UniRef90_V4SF72	T L M H S L R P F I F R D N Q E I I	A D H A A S F E V R D I T V A S H L		
UniRef90_UP10002C3E887	T Y V P H V L V T A G E M R L I	D T D E K I K T E L K L V E T M C D V G E A M K L		
UniRef90_A0A024TF73	T L I P H N F G M S L P P V I	D S V S E L K L D L L E V M A D V E L T H K M		
UniRef90_G9KF84	T V I P H N F G R N R P P P I	I N S P E L L Q A K K D M L L V L L A D I E L A Q T L		
UniRef90_D7TCW5	T L L H S T R P F I F R D H Q E I I	A D H A A L E I I V R D I T V A S H L		
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UniRef90_D8SJ96	S L V P S T H P T V I S D I A H L I	T E G A S V L E S L K A I S V A S H I		
UniRef90_K3XA41	S I I P H H S R L E I I D T M V K L	G K K V A M M E S M S S M E I A N L C		
UniRef90_I1EBV1	T R V P H D F G			
UniRef90_S8D8Z0	T L L P S T R P Y V L R D F N D V A E H A S A F E T I R D I N V A S R L			
UniRef90_J3LDG6	T L L F P T T R P Y T I R G Y E Q I A D N V A S L E T V R D I N V A S R L			
UniRef90_E9CHX7	S L I P H N F G T A R A D T I D T G A K A A L K L D M L N T M A N I E L A			
UniRef90_M0TYR7	T F M H S V R P F I M K N F Q E L A D H V A A L E C I R D I N V A S R L			
UniRef90_S7S584	S I I P H A F G R N R P V V I N M A T E L K K E L L V D A G D M E V A Q E L			
UniRef90_UP10002B40C06	T L M H S T R P F I F K D Y Q E I I A E H A A V L E G V R D V T V A S H L			
UniRef90_W9QJF3	T L M P S T R P F I F R D F Q E L L A D H H A S A F E T V R D I T V A S S L			
UniRef90_UP10002B46A5C	T L I P H N F G R Q R P P T I S D Q E T L Q M K M D M L T V L G D I E I A Q S L			
UniRef90_J9NB56	L S I P H A F V R K R P V I D S E D L I E E L K L L T I L S Y M K			
UniRef90_K3YQ15	T L F P T T R P Y V L R G F E Q I A D N V A S L E T I R D I N D A S R L			
UniRef90_F4Q1D8	E L I P H D F C Q E R M K V L N E S N V V A Q K M K L L E D L D E L E V V S K I			
UniRef90_H3FN50	T K V P H A C G F R P P A M I K T K Q L L K Q E I E L L D L L S G I E Y A I K T			
UniRef90_M0WYT4	T L I P S V H P H I H D K D D L T M K V			
UniRef90_A0A022R9L7	T L L P S I R P Y V F R D F H D I A D H A A A F E T I R D I N V A S R L			
UniRef90_B0EMB9	Y M I P H I F D R G N I I L I D N A E K V K K E I E L V E T M C D I A E A I Q L			
UniRef90_B9SCR8	T L M H S T R P F I L L R D Y D E L A D N V A A F E T V R D I N V A S R L			
UniRef90_Q1SGF1	T L M H S T R P F I F R D Y D Q E I A D H A A L E G V R D I T L A S H L			
UniRef90_L8HG62	S I I P Y N F G R Q L P D V I S Q T S Q V S E Q Q M R I L E S L A D I D M G V Q I			
UniRef90_K7H4L9	S L I P H S F G F S V P P K I D T L V K I E A E R E L L D A L G S I E A A Q N V			

130 140

UniRef90_Q7Z115	K K Q T E S [] E T L [] K T K [] T P [] L D K D
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UniRef90_V7CYP7	V G F D A N N E D S I I D D S Y K
UniRef90_F1A0Y8	R K L [] S Q K A S S G N S I D D D N Y
UniRef90_U6IHV7	I K T K G K T M D [] H P A D R N Y
UniRef90_A0DM45	L E D S K D D S N V I D E N Y K
UniRef90_W6U0S3	I K Q E G K T V D M H P A D R N Y
UniRef90_A0A022S2K8	V G L D D K Y Q K L R C D I S P L S R D
UniRef90_T0PWC3	Q K A A S A S A S T T A V N Q I D L N Y
UniRef90_Q9ZSV1	V S L D D K Y M K L H C D I T P L S E D Y K []
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UniRef90_A7RQ13	L K E K V D D K M H P A D K H Y E
UniRef90_I1H259	V G F D N D N D E S L D E K Y K
UniRef90_W2RX48	M T K A K S Q Q A E K L A L V D R Q Y Q
UniRef90_R1FP30	I D T K A P A F D K H P L D L K Y
UniRef90_D8PU00	D S A T R S R [] S I D A S F H P L D A N F
UniRef90_Q22MT0	L K L T D T E E A I I D E N Y K
UniRef90_G4M0S9	L K N N Q S S T E N I I D V N Y K
UniRef90_F5BZN3	K S E T E Q E E M I E T V P H P L D Q D Y
UniRef90_M0VKE1	L E D Q S Q G Q N G N A V N L I Q S Q Y E
UniRef90_Q24GE5	L K T E N R T E T V H P V D R H Y
UniRef90_X6NWC9	L S S K S L G P A A E Q H P L D A M Y
UniRef90_M5FZ33	
UniRef90_R1BLE3	
UniRef90_T1FWB0	
UniRef90_M7AHR5	L R G G N E D G D K D P I D I N Y E
UniRef90_U6H3F5	L T D A L L N A R D K H P L D A Q Y E
UniRef90_Q24FE8	M N Q A F Q A Q G A E S I N P L D T F Y S M
UniRef90_V9EE10	Q K K K N A K K N A G A K L N S L D A Q F N M
UniRef90_G1PS32	V K T E [] Q S P E H P L D Q H Y K
UniRef90_G4ZZH6	Q A E K K K N A T D E S K L N S L D V Q Y N L
UniRef90_G4ZZH6	Q A E K K K N A T D E S K L N S L D V Q Y N L
UniRef90_Q817C5	K R L S T S T S G N S T D D D N Y N L
UniRef90_V8P8T9	Q A E E E E K E M V K E V L H P L D K D Y G L
UniRef90_V4U5Z7	
UniRef90_T0QFJ7	I K N K T A V D M N P V D A H Y
UniRef90_R7QBU3	M S V K E E K E D P Q K L P H P T E A Q Y
UniRef90_G7Y503	Q R K V T L L K N K C L H P T D K K Y
UniRef90_A0CTW4	I L N E S G N
UniRef90_R7T4Z7	Q V Q A K K D M K E E V G T H H L D R Q Y N
UniRef90_D0NWS2	Q K K K N A K K N A G A K L N S L D A Q Y N M
UniRef90_D0NWS2	Q K K K N A K K N A G A K L N S L D A Q Y N M
UniRef90_M5BTB9	M S D S R P K D A D G N P V N P L D A
UniRef90_J9IR77	L A N S E Y E L K A A H P V D V Q Y A []
UniRef90_Q5DAZ0	L Q T K G D S K R N P L D E H Y E
UniRef90_E3MAH0	D E I C G I D S R T I P G V D P V D T H Y K
UniRef90_C5KAC1	V S A P S V K G G D P I R A K Y N
UniRef90_UP10002C36F12	
UniRef90_V517F6	
UniRef90_G0PJ28	
UniRef90_C4M5X0	I E E D E G M D [] D E M T Q I Y S H Y K
UniRef90_UP10003F07745	V K T E [] Q S Q E H P L D Q H Y R
UniRef90_G7YA32	M K K D K K P T Q N L I D S Q Y Q
UniRef90_F0ZDM9	L L A A H Q N S S M H P Y D Y C F K
UniRef90_C5K7U0	V S A P S V K G G D P I R A K Y N
UniRef90_K7K5Y1	L K D D A E M Q G D P L Y T H Y Q
UniRef90_G0QU41	I N Q A [] Q S K V K N E I L N P Q D I Q Y K I []
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UniRef90_U6LKT5	L T D A L L N A K D K H P L D A Q Y E
UniRef90_E4YIW1	T K K G P Q N [] T R E T
UniRef90_D3BN0	L L A A H S N N K L H P F D Y
UniRef90_W9Z646	M K L D S K A R D S I H P L N R Q F Q
UniRef90_H3ERG9	M Q D K N D N G T K T M D P I D V N Y
UniRef90_M1ABL8	I G D M S G S T L D D P L F E R Y
UniRef90_V4SF72	I G D M S G S T L D D P L S D C Y E
UniRef90_UP10002C3E887	M E E D E G
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UniRef90_G9KF84	Q A T P E E E K V E E V P H P L D R D Y H []
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UniRef90_T1IYM8	L L G A Q F R T T E M N P L D Y I Y R
UniRef90_D8SJ96	I G D M T G D T L D D P L S D R Y
UniRef90_K3XA41	H Q L D E C Y E L L D C T L H P L P E H
UniRef90_I1EBV1	
UniRef90_S8D8Z0	I G D M S G S T L D D P L F E C Y K
UniRef90_J3LDG6	I G D T F S S T L D D P L S Q C Y K
UniRef90_E9CHX7	
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UniRef90_S7S584	I K S T I M T D E D G K P L N P L D A H F K
UniRef90_UP10002B40C06	I G D M S G S T I D D P L S D R Y
UniRef90_W9QJF3	I G D M S G S T L D D P L S D R Y N
UniRef90_UP10002B46A5C	Q N V V V K K E E V E D D H P L D I N Y G L []
UniRef90_J9NB56	
UniRef90_K3YQ15	I G L S E C Y K K L G C S I N P V S E D Y K M
UniRef90_F4Q1D8	L L A A S H N K T L H P Y D Y C F
UniRef90_H3FN50	M K E E V R E D D V H P V D R H Y
UniRef90_M0WYT4	
UniRef90_A0A022R9L7	V G D M S G A T L D D P L F D R Y K
UniRef90_B0EMB9	M S D D E L L G F D E E T E L F S H Y
UniRef90_B9SCR8	I G D M S G S T L D D P L S D R Y K
UniRef90_Q1SGF1	I G D M S G S T I D D P L S D T Y K
UniRef90_L8HG62	L A E A E Q G L A G E G G H V L E K L Y
UniRef90_K7H4L9	K D L K N S K S K K D

1 10 20 30 40

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UniRef90_K1PJS7	P S K M P K A V Q E L I K E M S S V S M L D A A T K K Y E L D E E
UniRef90_L8X2J4	P P P E C T L H Q L V Q D A C R L I F N R D H F N T T M F S L N Y D A N K
UniRef90_A0A014MTJ0	R D P P E C T L P T E I Q L L S E V I D Q P N G A T A Q E Y G G F
UniRef90_B8PGN2	E K I P D C T L P T E I Q L L S E V I D Q P N G A T A Q E Y G G F
UniRef90_UP10001FE5448	T P A S T L D A R V Q H L L T L F C D V E A L Q S T L K N A N A R
UniRef90_B3RJW1	K T K S N K L E S N V T K L M K L I F D I K L M K N A I I D F K I D V D K
UniRef90_D3BBR9	P S N L P E E I Q S L V K T L F A E A T T N S C S A N I T E N G I E
UniRef90_K3W582	T D D S T L D R D I Q S L V K F I Y K E A T T Q L R S S C S A Y I T D K
UniRef90_F4PVU3	S K L D S V V A N F M K V L C S Q E I Y R Y A L M E L G H D S P E
UniRef90_UP10003D28EBD	Q A V V E L M K I I R N Q D Y L R Q L L S S L N Y N Y K E
UniRef90_F9F8J1	C K L D P S I S F L L K Q L C S Q E I Y R Y A L T E M A Q D L P D
UniRef90_I1IA68	E R R D G A S A L P Q E V Q R L V K H Y D Q S V S K T V V A K I T T R G I E
UniRef90_L8GGG7	S A L H E T V Q D V L V K L L Q E I E E L K V T G T K Q E A P T A K
UniRef90_H3H4R1	T S P Y P P C K L D N T I K R F I L Q F I Q V K L Y Q K D L Q Q F H V D M D F
UniRef90_A0DIP7	M N L D L E R
UniRef90_M4C2F9	K T R P C K L D K P T E S L K L I F D N D M F K E A M A N M N I D V K K
UniRef90_G0MN11	D Q K V K D L M R C I C D E D V H L G L L R Q L K F N E E G
UniRef90_UP10002B41DF8	D Q K V K D L M R C I C D E D V H L G L L R Q L K F N A Y G
UniRef90_A8WP85	S Q L E K P I Q E F I K N I S N A E I F K Q A Y R Q F A L S D Q Y
UniRef90_I7MGV0	P P S R L P T E V Q D F L T L V A D H T E L S Y A Y T L L G D A I M K
UniRef90_D0NKQ2	F I C H P K C Y T W L E T D H D M N K
UniRef90_B9IAQ6	Q A L P S K L Q D K V K G F I E E L T N L R T I S E C M R R T G V D E S M
UniRef90_C3XR76	P P S R L S T D V Q D F V T L L I A D H S E L S Y A Q T V T G D A V M K
UniRef90_M4BV0	P P P E C T L H E L I Q D A C R L I F N K D V M M N A H L L A M K Y D A N K
UniRef90_M5BHU6	S Q L P K E I M E V Y A D L I N V E S M K E A M K D T N V D P D V
UniRef90_H2XNV1	S K L D P N I Q N L L N R I V S K G S L E G E L T S M K L D S E K
UniRef90_W9Z247	C K L D S F V A N F I K V L C G Q E I Y N Y A L M E L G L D P P D
UniRef90_L1JFX1	L K S D I P S K L P D D V K D V Y E Q L T S F S M L K A A L R N T N V N T S Y
UniRef90_B3RJW2	A S Q P K P A S R L L D P R V Q A L L G L I C D L Q A M E E M V L E M K D D T K K
UniRef90_Q9FK91	S P Y Q Q S N L E K A I K R F M L Q F V Q V K L Y N K D L Q Q F H I D L D S
UniRef90_Q09525	S P Y P K C Q L H Q S I Q S V I E Q F A Q V K L Y Q Q E L Q N Y Q F D T S F
UniRef90_UP10003F0A6B8	P K V Q N L L K V I F N V K S I S A T M M E L Q V D G A K
UniRef90_UP100046C1399	L S Q Y P K S Q L P K E L Y D V M A Q F C N V E S I S H Q L K N L K I D T D I
UniRef90_A0CT98	T A D S Q L E P L I K T L V E N L Y V E A T T Q L T S V T I T E R G I E
UniRef90_E3N4S1	T K M N S R V A Q D L K V L M S Q E V Y R F A M T E M A I D A P D
UniRef90_A0DYX0	K D A V N S T L P L P L K N L I Q L I F D M K M M N N Q M K E I G Y D C K K
UniRef90_B3SBT8	H P M V Q S L I N Y I Y S E A T S R L T S A K I T S R G I E
UniRef90_UP100021A5198	C T L V P A V R S F V S L I F D E K V I E E H M K V L H D M R K
UniRef90_Q8I7C4	S C K S V L P N Q L H F V I K T M M N P K K M Q S M K T R G L S T D C
UniRef90_Q54HY5	S T L Q P A I T K T L I E H L Y S E A T T Q S N T V K I T E R G L E
UniRef90_A9S9P7	P P E S T L T E P V K K L M K L I F N Q T N G A N A L T C Y E S H V S R
UniRef90_G0QNE0	Q P K Q D Y L Q Q S A V E I M R E T T D V N V Y L R A L E R S G V D A K A
UniRef90_L8GYJ3	R I A E F I S L I C N V S M M K Q Q M L E I G Y N A E K
UniRef90_C5KAW0	M K C V C D E D V H L G L L K Q L K F N A Y G
UniRef90_UP1000462456D	U T H C Q L D P L V A N L M K V L C S R K I Y Q Y C M M E M G H D S P D
UniRef90_UP1000359F02	S S L E P K I A Y L M K I F V Q Y A M M E M G L D S P D
UniRef90_W1NUH7	A V Y S F I R D V S N V K R L Q E K T R T V W R S R L C
UniRef90_X0C9A8	P S A L S E P V Q K L V E Y L Y S E A T H K I T S A L Q S
UniRef90_J9FN38	Q L T E Q V R Q L V R D I Y E E A T N Q L T S K K I T A R G L E
UniRef90_U5D9N4	S K L N E Q A Q T F M K L I S N I R M Y K D T L Q L Q Q I N M T N
UniRef90_E3N2V8	K T K K E N L S E V K D K V L K L I G K L Y Q N A T S Y L V K S I D
UniRef90_E3EKH1	E T L K L M E F I S D K R Y L E I A I E N I G I H E K V
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50 60 70 80

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

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

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

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 L P S G N L T E F H E R C T D V L Q Q F A A Y L R E P E R M C L D F S S N K W W
 M P L G K L S K D N I S K A Y N M L K E L Y T E V E K K K P N A F E
 T P L G V L T L A Q V E K G E A I L D E L Q E T N K L D Q A S A E R L S S D F Y Y
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 V P L F G Q L N K E R L M Q G K R I I L E E I E K L V D Q V E K K I D T L S N E Y F Y
 T P L G V L S L D Q I E K G E K V L Y K I K D L I N N V S K D Y Q T L S S E F Y Y
 L S L D W Q K D L N Q L A G F K Y L I N L E D F I S K G D K K A I G Y Y N T L Y Y
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 L P L R K L S K S T I T K G Y D V L K R I A D V I G Q P D R L K L E Q L S
 K P I D C L S L S Q L K T G Y E I I L A A L E K S I G T N S A S F H D T N K Y Y Y
 L P L G M L A E V H R C Q E V L L M F E R E L L E K G T R A K K D A S C Y I F
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 T P L G S L T M E Q I I E K G E D L L E I F E L W K N K N P S Q Q D T T N E F Y Y
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 M P L G T L S A R Q I E E K G M A V L D A L R G C V D S G S S S M F Q S L S A H F Y Y
 A A M G K L S A A Q I E K G Q A V L A Q L K T S L P S S A L I T Q L S S G Q Y Y Y
 A A M G K L S A S Q I H K G Q V V L E K I I K A A L S S G A N T I N Q L S G E Y Y Y
 T Q L G T L S L D Q I N V A Q S I L K E I I N K E L V K K Q D N L E I L S S S K F F
 I P F G R L S K D N L L A A I E K L K D I I A L A I K E I R E Q A M N V T F E F Q
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 I P L V E L Q P S L L V T A L D R L N E I K T S L H E N S E A V A E K S S R Y Y
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 M P L D K V S K E D V H K G F E A L T D I Q N L S N T D N R V A A S N R F F
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 I N M T N I P K E K L E E A K M I L D E L E K N V S N D S L E F E D Q T C K L Y
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 UniRef90_J3KTZ8
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 UniRef90_J9EY84
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 UniRef90_D3B7W6

130 140

Detailed description: This block contains a sequence alignment of UniProt proteins. The alignment is centered around positions 130 and 140. At position 130, there is a highly conserved phenylalanine (Phe). At position 140, there is a highly conserved tyrosine (Tyr). The sequence is presented in a grid where rows represent different proteins and columns represent positions in the sequence. Amino acids are represented by single-letter codes, and some are highlighted with colored boxes (e.g., Phe is highlighted in yellow, Tyr is highlighted in red). The alignment shows a mix of highly conserved and variable positions across the different proteins.

Sequence logo for UniRef90_X0BEW0 showing conservation across UniRef90 entries. The x-axis marks positions 1, 10, 20, 30, and 40. The y-axis lists UniRef90 entries. The logo uses a color scheme where blue represents hydrophobic residues, green represents polar uncharged, red represents negatively charged, and yellow represents positively charged.

Position	UniRef90_1	UniRef90_10	UniRef90_20	UniRef90_30	UniRef90_40
1	P	C	K	L	L
10	P	C	K	M/Q/I	L
20	L	M/Q/I	F	G	N/F/D
30	S	E	N/E/T	A/N/I	E/D/L/S
40	S	A/V	G	A/L/G	N/F/D

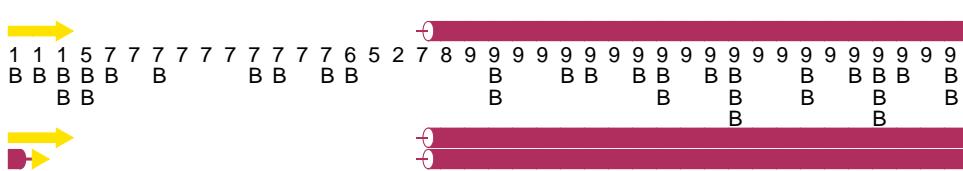
Dataset	Motif Position	Motif Count
jnet	8	1
conf	8	1
sol25	8	1
sol5	8	1
sol0	1	1
jhmm	18	1
ipssm	18	1

	50										60										70										80										
UniRef90_X0BEW0	L	E	D	I	K	I	D	D	I	E	K	G	F	K	T	L	K	A	A	E	□	R	K	D	R	K	N	G	T	T	D	Y	T	N	K	Y	H				
UniRef90_UP10003F081E0	V	S	V	E	S	L	K	T	E	N	V	E	K	A	E	A	L	L	L	Q	L	K	R	A	L	D	N	S	D	S	E	□	I	M	E	L	S	K	E	F	Y
UniRef90_L7MJX9	V	A	L	E	L	L	S	A	E	S	L	S	T	A	L	A	L	E	D	I	H	Q	L	V	R	E	K	A	S	L	Q	A	S	L	E	R	S	L	Y		
UniRef90_K9XWE7	T	A	L	G	L	I	T	P	N	A	I	A	L	A	R	D	Y	L	Q	I	A	M	K	R	S	N	S	R	I	F	R	Q	L	I	S	Q	Y	L			
UniRef90_V5HPS2	V	A	L	E	L	L	S	Q	E	S	L	N	T	A	L	A	L	L	E	D	R	Q	L	L	P	E	L	M	L	R	I	V	E	K	S	E	E	L			
UniRef90_I3LDB1	P	V	N	R	R	M	S	□	N	D	V	G	K	A	E	G	V	L	L	V	K	M	A	V	K	K	G	E	T	A	L	H	K	M	M	S	E	F	Y		
UniRef90_UP10002651C15	C	P	M	A	S	V	T	H	E	Q	I	E	K	G	E	S	L	L	Q	I	K	E	G	L	D	K	K	T	S	Q	A	E	M	S	S	E	Y	Y			
UniRef90_F4PYX9	T	P	L	G	T	V	S	L	P	Q	V	E	K	A	E	L	V	L	T	Q	I	A	T	A	L	E	T	S	D	P	V	V	T	K	L	Y	Q	E	L		
UniRef90_UP10002C4511C	P	V	N	K	I	S	Y	Y	S	A	K	E	G	I	I	V	K	A	A	I	K	N	G	E	T	A	F	O	K	M	I	T	F	E	Y	Y					

solvent	jnet = 8	jnet = 7	jnet = 6	jnet = 5	jnet = 4	jnet = 3
lupas_21	Present	Present	Present	Absent	Absent	Absent
lupas_14	Present	Present	Present	Absent	Absent	Absent
lupas_28	Present	Present	Present	Absent	Absent	Absent
jnet	Present	Present	Present	Absent	Absent	Absent
conf	Present	Present	Present	Absent	Absent	Absent
sol25	Present	Present	Present	Absent	Absent	Absent
sol5	Present	Present	Present	Absent	Absent	Absent
sol0	Present	Present	Present	Absent	Absent	Absent
jhmm	Present	Present	Present	Absent	Absent	Absent
ipssm	Present	Present	Present	Absent	Absent	Absent

UniRef90_X0BEW0	E I L P G A G K E	90	Q D K S C Q T Q V K P L Q G W E L K N A Y E	120
UniRef90_UPI0003F081E0	S F I P H K E D F K		V I N S K S V I A K K Q E C Q L R D I	
UniRef90_L7MJX9	C L V P V R G R R E R L E P L F E E R G V S R H A D L V H S L V H L H L A H Q L			
UniRef90_K9XWE7	R L I P Q N G R K D E S V F R S P Q E L Q R Q Y E I L N A L D A A L A T T Q			
UniRef90_V5HPS2	C L I P V R G R R E R L E P L F E E R G V Q R M A A L V H S L V H L Q L A T Q L			
UniRef90_I3LDB1	R L I P H R G V P A E P V T L R L V A Q K E D L C Q L I R D M			
UniRef90_UPI0002651C15	S Q I P H K K R L G K N K Q D I T R E Q G C Q L L T D V			
UniRef90_F4PYX9	G H I P Q A R S S P E S S L G D I Q D M V Q L M K D			
UniRef90_UPI0002C4511C	R V I P H K G P T T E E V N L R L S K K E D L C Q L I R D M			

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



	M K A T C N	130 S G K E V H L F D R Q	140
UniRef90_X0BEW0			
UniRef90_UPI0003F081E0	L T G A Q L R	A P E M H P L D Y V Y	
UniRef90_L7MJX9	P S M K E K	E L H P L D Y V Y R	
UniRef90_K9XWE7	L L G A Q L K A A		
UniRef90_V5HPS2			
UniRef90_I3LDB1			
UniRef90_UPI0002651C15			
UniRef90_F4PYX9			
UniRef90_UPI0002C4511C	L N V G E S L G V S N A T S N P I D T R Y R		

