

1 10 20 30 40  
QUERY NT D G L A G F P R Y K V A N I Q Q V Q Q Q I K S S G C A V Y F F A Y P L T D E 40  
UniRef90\_F2L5B2 G S S A F P R L L L V D E N G N P I K A S Q L P V A I F P Y P L S N E  
UniRef90\_C3MLY2 G F P K S L V D S S G N A S Q I P V N S P F I V I F E Y P M T G E  
UniRef90\_F9VML5 L K T F P W M I L V D S S N G A S K I P V N D P A I L L F E Y P M L G D  
UniRef90\_H2C5T2 L K N F P W I I I V D S D G N A S K L P V N D P S I L L F Q Y P M E G D  
UniRef90\_I2K4V3 F E K V Q L K D A E G N P I K A S A L A V Y V F N Y P Y V G T  
UniRef90\_UPI000368F66F NT K G L K R Y T K A L L V K E D G S P L R E E D I T Q Y I F F Y P Y A S T  
UniRef90\_D3SPL0 A R V E Y P S N R L A N I K D L K P N E P L D V A Y P D T D A  
UniRef90\_K2KG71 A Y P K K G V G K A S G M P V N Q A V S F S Y P D A S S  
UniRef90\_L0LG61 G I R L V H D P T G V P I K A S D L T V I V H V I P D  
UniRef90\_Q83GL5 G V R L V R D P T G T P I K A S D V T I A F H V I P L E V E  
UniRef90\_UPI00035FD2EA Y P R K S V G Q L G R M A P N T P I S Q V V A F S Y P D A A S  
UniRef90\_UPI0003134555 V N N P S L V T F D Y P L Q N E  
UniRef90\_AOA022FU22 K A D V Y E E H M H S I H G S R N  
UniRef90\_T0LP16 K K Y P R V K I A N I S E L N T G Q P V F K E Y I A D S  
UniRef90\_B1VHF3 G L R L A R D P S G V P I K A S E V T I A F H V I P L T H E  
UniRef90\_UPI00034A441F K K Y P R V K I A N I S E L N T G Q P V F K E Y I A D S  
UniRef90\_M2WD61 G L R L A R D P S G V P I K A S E V T I A F H V I P L T H E  
UniRef90\_F6EFB8 A A M A D H P A R L V N A D G S P L K A A D V T T L V F A Y P Y R G I  
UniRef90\_I4WBP5 V A R L D R Y P R I L V G S V G D L G D G D V E T F E Y P L E G T  
UniRef90\_F8A3N8 V V S Y P S V K I G N S K T L Q P N Q P V T F N F P D E Q S  
UniRef90\_MODAL0 L A S Y P R Q K I G Q L S Q L R V D Q P L I F S Y P D A A P  
UniRef90\_UPI0002629CBE G M R L A R D H D G T P I R A A D V A M I F H V M P L T H E  
UniRef90\_C7R4P1 D P A G R P V K A S D V T I V V H I I P E A P E  
UniRef90\_UPI0002379210 P K V I A R A G Q L R P N V P L A F T F P D A S S  
UniRef90\_UPI000465429F G V R L T L D P T G T P I R A S D V T I F D F A Y P D A S S  
UniRef90\_B3DAM2 L I A H V G E L K T N V P Y V I S N  
UniRef90\_UPI00047BE2F6 G M R L A H D P S G E P I R A A D L T L A V H V I P L E E K  
UniRef90\_UPI0004734FFD G V R L T R D P S G T P I K A S D V T I A F H V I P E G N E  
UniRef90\_H5TZZ7 A R V V G Y P R Q L I A K V S E L K L N E P V N F N Y P D N G  
UniRef90\_UPI0003082FA6 T G L R T T P W Q K L L Y N A E T G R P V K L G D L E V G G F V L P L P R E  
UniRef90\_UPI0003082FA6 G V R L V V D G T H K P L K V S D F A T P G S M I  
UniRef90\_I7GD61 G I R V V N D V T L R P I K P S D L V V L V N A A P L Q E S  
UniRef90\_UPI000479D22B L R L V V E G T G Q P I R A A D F N S P G G  
UniRef90\_UPI00030ABB0C R I V I D D G T K N P R P L R A S D F A T P G S  
UniRef90\_UPI000465429F P V V K Y F I P P S S G S  
UniRef90\_B3DAM2 P I V R Y F I P P S S G G  
UniRef90\_UPI00047BE2F6 G K R L V T D P D G I P V K A S D V T L G V F H I L P E G D  
UniRef90\_UPI0004734FFD P V V K Y F I P P S S G G  
UniRef90\_H5TZZ7 P V V Q Y F V P P S S G G  
UniRef90\_UPI0003082FA6 P I V K Y F I P P S S G A  
UniRef90\_I7GD61 G V R L V N D I T F Q P I K V S D L E I G Q L V N A E  
UniRef90\_UPI0002629CBE P V V K Y F I P P S A G G  
UniRef90\_C7NIC8 P I V K Y F I P P S S G G  
UniRef90\_L8LVH3 G I R L V N D V T Y T P I K A E Q V Q I G Q L I N A Q  
UniRef90\_UPI0003465800 P V V K Y F I P P S A G G  
UniRef90\_UPI00031119F3 P I V K Y F I P P S S G G  
UniRef90\_F9Z052 G V R L V N D I T F Q P I K V S D L E I G Q L V N A E  
UniRef90\_N0CXR8 P V V K Y F I P P S A G G  
UniRef90\_UPI00037E09D3 P I V K Y F I P P S S G G  
UniRef90\_F4XV84 G I R L V N D V T Y T P I K A E Q V Q I G Q L I N A Q  
UniRef90\_UPI0003496B56 P Y A T F F A P P G L G S  
UniRef90\_F5XRY8 G R T S W E G V R L L R I D G S P V D Q Q P G S L E T V F P A V P E S D A  
UniRef90\_K9XJ95 G V R L V N D V T F Q P I K A S D L E I G Q L V N A E  
UniRef90\_V4U968 N D P Y G M I S A L P D E G Y  
UniRef90\_H6RSR6 E N T G E P L K P E D V P V L A F A R P D G L E  
UniRef90\_W4TN67 I Q M M F T Y S R F F F P V I S S G N  
UniRef90\_J7L8B5 V N I S K I E P G Q Q M Y F I P P R A A G  
UniRef90\_UPI000477C84C V N I S K I E P G Q Q M P V V N Y F I P P A S G T  
UniRef90\_V6KRW7 N I S K L E P G Q M V T V E W R G K  
UniRef90\_M2W8R1 V E G T N K P I K E A D L A A M I T A F P L H G G  
UniRef90\_B1X5F2 V N I S K I E P G Q Q M I A E W R G Q  
UniRef90\_W8RAM2 V N I S K I E P G Q Q M I A E W R G K  
UniRef90\_K9UYF8 V D I S K L E V G Q Q M I V E W R G Q  
UniRef90\_F2R7N9 V D I S K L A P G Q M M T V E W R G K  
UniRef90\_UPI0003805EB9 V D I S K L K P G E K M T G Q P V W I V W Q G K  
UniRef90\_UPI0003481772 V R L T R E D G S P I R P D D V I S T V F P G I P R R T  
UniRef90\_UPI00036DOB2A V N I G K L E S G Q Q M T V E W R G K  
UniRef90\_UPI0003689DD8 A D I S N L K P G E K M T G L P V W I V R R T  
UniRef90\_R7WZ37 M R V V R D V V G T P I R P A D L E I G D L V W R G Q  
UniRef90\_UPI00036F21A4 V D V S K I L P G E Q W R G K P V F I L R R T  
UniRef90\_UPI00036D4B25 V D K E G N G I K V G D I P K G S  
UniRef90\_K9YM09 P V V N Y F I P P S S G G  
UniRef90\_UPI000262CD3E P V V N Y F I P P S S G G  
UniRef90\_U2YWT7 P V V N Y F I P P S S G G  
UniRef90\_UPI000475647A P V V N Y F I P P S S G G

QUERY UniRef90\_F2L5B2 UniRef90\_C3MLY2 UniRef90\_F9VML5 UniRef90\_H2C5T2 UniRef90\_I2K4V3 UniRef90\_UPI000368F66F UniRef90\_D3SPL0 UniRef90\_K2KG71 UniRef90\_L0LG61 UniRef90\_Q83GL5 UniRef90\_UPI00035FD2EA UniRef90\_UPI0003134555 UniRef90\_A0A022FU22 UniRef90\_T0LPI6 UniRef90\_B1VHF3 UniRef90\_UPI000364584D UniRef90\_U3TC01 UniRef90\_UPI00034A441F UniRef90\_M2WD61 UniRef90\_F6EFB8 UniRef90\_I4WBP5 UniRef90\_F8A3N8 UniRef90\_M0DDL0 UniRef90\_B3EFU3 UniRef90\_F8DZS1 UniRef90\_W4LHH9 UniRef90\_UPI0002629CBE UniRef90\_C7R4P1 UniRef90\_UPI0002379210 UniRef90\_UPI000465429F UniRef90\_B3DAM2 UniRef90\_UPI00047BE2F6 UniRef90\_UPI0004734FFD UniRef90\_H5TZZ7 UniRef90\_UPI0003082FA6 UniRef90\_I7GD61 UniRef90\_UPI000479D22B UniRef90\_UPI00030ABB0C UniRef90\_A6FGU9 UniRef90\_UPI0003460480 UniRef90\_A0LTH5 UniRef90\_UPI0003F6CA5F UniRef90\_UPI00036B8D82 UniRef90\_UPI0003681AFC UniRef90\_B4WHM1 UniRef90\_D1A8W5 UniRef90\_A8V296 UniRef90\_UPI0002D91301 UniRef90\_U5DF82 UniRef90\_C7NIC8 UniRef90\_L8LVH3 UniRef90\_UPI0003465800 UniRef90\_UPI00031119F3 UniRef90\_F9Z052 UniRef90\_N0CXR8 UniRef90\_UPI00037E09D3 UniRef90\_F4XV84 UniRef90\_UPI0003496B56 UniRef90\_F5XRY8 UniRef90\_K9XJ95 UniRef90\_V4U968 UniRef90\_H6RSR6 UniRef90\_W4TN67 UniRef90\_J7L8B5 UniRef90\_UPI000477C84C UniRef90\_V6KRW7 UniRef90\_M2W8R1 UniRef90\_B1X5F2 UniRef90\_W8RAM2 UniRef90\_K9UYF8 UniRef90\_F2R7N9 UniRef90\_UPI0003805EB9 UniRef90\_UPI0003481772 UniRef90\_UPI0003480ED1 UniRef90\_Q606Q3 UniRef90\_UPI00030DC895 UniRef90\_A3YBV6 UniRef90\_I3I8K3 UniRef90\_W0SFV2 UniRef90\_A11PK5 UniRef90\_UPI00036623A5 UniRef90\_UPI0003717D6E UniRef90\_UPI00036DOB2A UniRef90\_UPI0003689DD8 UniRef90\_R7WZ37 UniRef90\_UPI00036F21A4 UniRef90\_UPI00036D4B25 UniRef90\_K9YM09 UniRef90\_UPI000262CD3E UniRef90\_U2YWT7 UniRef90\_UPI000475647A

50 60 70 80

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

QUERY		90	100	110	120
UniRef90_F2L5B2	P N G T	I F A F S D V	C V H L G C Q L	P A Q V I V S S E S D P	G L Y A K G A D L
UniRef90_C3MLY2	P H K S I	V A F S A I	C C Q H L G C C T F	P E L T F F Y P P G H K A A L	G P K D R V L
UniRef90_F9VML5	P Y N K S I	V A Y S A I	C C Q H L G C C T P	P P Y I H F F P P Q Y V G	P Q G A K V P A L I I
UniRef90_H2C5T2	P N K S I	V A Y S A I	C C Q H L G C C Q P	P P E I H F Y P P K Y L A	P G G G A S S V I
UniRef90_I2K4V3	V K D T	I V A Y S A I	C C S P H L T H P Q	P E M S M F H Y I D E K	G T T K A G G A F
UniRef90_UPI000368F66F	G D F Y A Y T K I	C C S H L G C C P T			S L Y E Q Q T N R I
UniRef90_D3SPL0	K K R S I	L V A Y S A I	C C P H Q L S H Y S F	I N Y Y P P D K P S	E T T K K G G I I
UniRef90_K2KG71	P D G D I	V G F S T V	C C T H M G C P M S Y N		A A D R T L
UniRef90_L0LG61	P N Q D I	V A Y S T L	C C T H M G C P V		A Y D G G T K T F
UniRef90_Q83GL5	I V A Y S K V	C C T H L G C C P V			S L Y E H R T H R L
UniRef90_UPI00035FD2EA	I V A Y S K V	C C T H V G C C P V			A L Y E Q Q T H H L
UniRef90_UPI0003134555	P D G D V	V A Y S V M	C C T H M G C C P V		A V Y E P A T K T F
UniRef90_A0A022FU22	P D K D I	V A F S T L	C C T H M G C C P V		A Y D A G T K S F
UniRef90_T0LP16	P Y G S V	V S S A I	C C Q H L G C C P P	P E L R F H P P S S T N F P	A Y G K V I
UniRef90_B1VHF3	G D Y L A F S K I	C C T H L G C C P T			S L Y E Q Q T N R I
UniRef90_UPI000364584D	G T Y A Y S K V	C C T H V G C C P A			S L Y E Q Q T N R L
UniRef90_U3TC01	P E K D I	V A F S M L	C C T H M G C P V		G F L I F D S N T K T L
UniRef90_UPI00034A441F	I V A Y S K V	C C T H V G C C P V			A L Y E Q Q T H H L
UniRef90_M2WD61	G D Y W A Y S K L	C C T H L G C C P T			S L Y E Q Q T N R I
UniRef90_F6EFB8	G N F F A Y S K I	C C T H L A C C P T			S L Y E Q Q T Q R I
UniRef90_I4WBP5	P H A N L V A C V A I	C M H Q L S T P	D Y S A I R Y A A S G S		P L T D A P G L I
UniRef90_F8A3N8	S H D G I	V A Y S K I	C C T H V G C C P V		A L Y E Q Q T H H L
UniRef90_M0DDL0	S D G D I	V A Y S N G L	C C T H M G C C S V E	G L V D P G Q E M A G P	
UniRef90_B3EFU3	S G K D I	V A F S T L	C C T H M G C C P T T Y S K		
UniRef90_F8DZS1	G D Y A Y S K I	C C T H L G C C P T			S L Y E Q Q T N R L
UniRef90_W4LHH9	P Q Q D V	V A F S N L	C C T H M G G P M I	G S Y Q K Q D K A L G P	
UniRef90_UPI0002629CBE	Y E G I	L A F S K I	C C T H V G C C P V		A L Y E Q Q T H H M
UniRef90_C7R4P1	Y D G I	V A Y S K I	C C T H V G C C P V		A L Y E Q Q T H H L
UniRef90_UPI0002379210	G D Y Y A Y S K I	C C T H V G C C P T			S L F E Q Q T G R L
UniRef90_UPI000465429F	G D Y F A Y S K I	C C T H L G C C P T			S L F E Q Q T N R L
UniRef90_B3DAM2	P D K D I	V A F S V L	C C T H M G C C P V		A Y D G T T R E F
UniRef90_UPI00047BE2F6	D W G G I	V A Y S R L	C C T H V G C C P V		A L Y E Q Q T H H L
UniRef90_UPI0004734FFD	P G S D V	V A F S R L	C C S H M G C C P V A Y D T		E T K V F
UniRef90_H5TZZ7	G D Y F A Y T K V	C C S H L G C C P T			S L Y E Q Q T N R I
UniRef90_UPI0003082FA6	G E I	V A Y S K V	C C T H V G C C P V		A L Y E Q Q T H H L
UniRef90_I7GD61	G E L	F A Y T K V	C C S H L G C C P S		S L Y E Q Q T Y R I
UniRef90_UPI000479D22B	I V A Y S K I	C C T H V G C C P V			A L Y E Q Q T H H L
UniRef90_UPI00030ABB0C	I V A Y S K V	C C T H V G C C P V			A L Y E H Q T H H L
UniRef90_UPI000368FU9	N K Q D I	V A F S L M	C C T H Q G G P L D G Q Y K V V G E H R V L G		A L Y E R G S H R I
UniRef90_UPI0003460480	H D G D	I A Y S K I	C C T H V G C C P A		A L Y E E K Q V Q Q L
UniRef90_A0LTH5	N W N G I	V A Y S K I	C C T H V G C C P L T		A L Y E Q Q T H H I
UniRef90_UPI0003F6CA5F	I D G I	L Y S K I	C C T H V G C C P I		S L Y E Q Q T H H V
UniRef90_UPI000368D82	H D G I	V A Y S K I	C C T H V G C C P A		A L Y E Q N T H H I
UniRef90_UPI0003681AFC	E E G G L	Y G I S S I	C C T H L G C C V V P W N		E N A G K F
UniRef90_B4WHM1	N W N G I	V A Y S K I	C C T H V G C C P A		A L Y E Q Q T H R I
UniRef90_D1A8W5	P E A G V	V A F S T L	C C T H K G C C P V I Y N		E Q E R V F
UniRef90_A8V296	E S G S L	Y G I S S I	C C T H L G C C V V P W N		A S E N K F F
UniRef90_UPI0002D91301	E D A G E I	Y G L N A V	C C T H L G C C V V P W N		A N E N K F
UniRef90_U5DF82	G I V A Y S K I	C C T H V G C C P V			A L Y E Q Q T H H L
UniRef90_C7NIC8	E D K T L	Y G L N A V	C C T H L G C C V V P W N		A S E D K F
UniRef90_L8LVH3	D N K E I	A S F N A V	C C T H L G C C V V P W N		V A E N K F
UniRef90_UPI0003465800	E D A T L	Y G L N A I	C C T H L G C C V V P W N		A S A N K F
UniRef90_UPI00031119F3	D W G G I	L S Y S K I	C C T H V G C C P V N		L W E Q Q T H H L
UniRef90_F9Z052	D D G T L	V G Y S A V	C C T H L A C C A V L W R K D		R G R E G E L
UniRef90_N0CXR8	N D G E S	Y G I N A V	C C T H L G C C V V P W N		A N E N K F
UniRef90_UPI00037E09D3	E D Q G L	E A Y N A V	C C T H L G C C V V P W N		A S K N R F
UniRef90_UPI0004XV84	Y N G I	V A Y S K I	C C T H V G C C P A		A L Y E R T T H R I
UniRef90_F49B56	G G I	L C Y S K I	C C T H V G C C P I		S L W E Q Q T H H L
UniRef90_F5XRY8	S K E A I	Y G M N A V	C C T H L G C C V V P W N		A A E N K F
UniRef90_K9XJ95	K D K T L	Y G I N A V	C C T H L G C C V V P W N S		A E N K F
UniRef90_V4U968	G D Y V A Y S K I	C C T H A G C C P V			S L Y E Q Q T G R L
UniRef90_H6RSR6	G G I	L S Y S K I	C C T H V G C C P V N		L W E Q Q T H H L
UniRef90_W4TN67	H Q G I	V A Y S K I	C C T H V G C C P A		A L Y E R T T H R I
UniRef90_J7L8B5	E E N Q I	R A Y S K V	C C T H V G C C P V N		A L Y E R V T R H V
UniRef90_UPI000477C84C	S H Q G V	L A Y S K I	C C T H V G C C P V		S L Y E Q Q T H H V
UniRef90_V6KRW7	E D G E L	R P Y S A V	C C T H L G C C V V P W E		A G E N Q F
UniRef90_M2W8R1	G D D A I	V N Y N A I	C C T H L G C C V V P W N S		G A N K F
UniRef90_B1X5F2	P E V	L L V G L	C C T H L G C C S P S F R P E V A P P D L G P E W L		G G Y
UniRef90_W8RAM2	S K E T I	Y G I N A I	C C T H L G C C V V P W N		A A E N K F
UniRef90_K9UYF8	E D G T L	A G Y S A V	C C T H L A C C A V L W R K E R G S		E G E L
UniRef90_F2R7N9	P K L	L V L V G L	C C T H L G C C A P M Y R P E V G A A D L G G D E W M G G F		
UniRef90_UPI0003805EB9	T H N G I	V A Y S K I	C C T H V G C C P A		A L Y E R G S H R I
UniRef90_UPI0003481772	P E I	L L V L V G L	C C T H L G C C S P T F R P E V A P V D L G K D W V		G G Y
UniRef90_UPI0003480ED1	P E V	F V A I G V	C C T H L G C C A P T F R P D V A P A D L G S D W P		G G F
UniRef90_Q606Q3	H E G I	L C F S K I	C C T H I G C C P A T		L Y E Q Q T H H A
UniRef90_UPI00030DC895	P E I	A V L L G I	C C T H L G C C S P T Y R P E L S P E A D L G G P K W V		G G Y
UniRef90_A3YBV6	N K E F	A I L L G I	C C T H L G C C A P M F R P D V G A A D L G G D K W Q G G F		
UniRef90_I3I8K3	P E I	L V A V G I	C C T H L G C C S P T E K F K T G A E S G I E A D W P G G F		
UniRef90_W0SFV2	P N I	L V A I L G L	C C T H L G C C S P T F R P D I A P A D L G A D W K		G G F
UniRef90_UPI00036623A5	P E Y	A V M L G T	C C T H L G C C S P N D N F V E T A E W P		G G F
UniRef90_UPI0003717D6E	G D Y V A Y S K I	C C T H A G C C P A			S L Y E Q Q T N R L
UniRef90_UPI00036DOB2A	P E I	F V A V G L	C C T H L G C C S P T F R P E I A P N D L G		D K W K G G F
UniRef90_UPI0003689DD8	E E Y	L V L V G I	C C T H L G C C S P Q Y V P E V I P		D E A F G G F
UniRef90_R7WZ37	E H K D L	L V V V G I	C C T H L G C C I P S G P Y Q A D T N A A L G H D P G F		
UniRef90_UPI00036F21A4	P E L	L V L V G L	C C T H L G C C S P S F R P E V A P A D L G P D W V		G G Y
UniRef90_UPI00036D4B25	P D N G I	V A Y S K I	C C T H V G C C P I S L N E R T T H		H L
UniRef90_K9YM09	E D Q Q I	Y G L N A V	C C T H L G C C V V P W N		A S E N K F
UniRef90_UPI000262CD3E	N A E I	A V L V G I	C C T H L G C C S P Q F R P E V G A P D L G		D D W Q G G Y
UniRef90_U2YWT7	T V D G Y	V A Y S G V	C C T H A G C I V S Q R A G P D N E Y		F
UniRef90_UPI000475647A	G A N A I	Y G I N A V	C C T H L G C C V V P W N A S A E		K F

QUERY	H	C	P	C	H	G	S	Y	A	L	K	D	G	V	V	S	140	P	A	R	P	P	L	V	V	L	D	Y	D	S	T	G	D	160									
UniRef90_F2L5B2	N	C	S	C	H	G	S	T	Y	D	P	Y	L	G	G	A	V	V	T	G	P	T	V	R	R	P	P	A	V	V	L	E	W	D	P	N	T	T	D	D	Y	L	
UniRef90_C3MLY2	H	C	D	C	H	G	S	T	Y	D	P	Y	L	G	G	A	V	V	T	G	P	T	V	R	R	P	P	A	V	V	L	E	W	D	S	N	T	T	D	D	Y	L	
UniRef90_F9VMY5	H	C	D	C	H	G	S	T	Y	D	P	Y	L	G	G	A	V	V	T	G	P	T	V	R	R	P	P	A	V	V	L	E	W	D	S	N	T	T	D	D	Y	L	
UniRef90_H2C5T2	H	C	D	C	H	G	S	T	Y	D	P	Y	L	G	G	A	V	V	T	G	P	T	V	R	R	P	P	A	V	V	L	E	W	D	S	N	T	T	D	D	Y	L	
UniRef90_I2K4V3	V	C	C	M	S	L	S	R	F	E	P	K	Q	G	G	K	V	V	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L		
UniRef90_UPI000368F66F	V	C	C	M	S	L	S	R	F	E	P	K	Q	G	G	K	V	V	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L		
UniRef90_D3SPL0	Q	C	C	A	H	V	S	L	F	D	P	A	E	G	G	K	V	V	L	D	G	P	A	E	F	P	L	A	A	L	L	L	E	T	E	G	S	D	K	I	L		
UniRef90_K2KG71	N	C	C	G	H	F	S	R	F	D	P	Y	L	G	G	A	V	V	T	G	P	T	V	R	R	P	P	A	V	V	L	E	W	D	S	N	T	T	D	D	Y	L	
UniRef90_L0LG61	K	C	C	G	H	F	S	R	F	D	P	Y	L	G	G	A	V	V	T	G	P	T	V	R	R	P	P	A	V	V	L	E	W	D	S	N	T	T	D	D	Y	L	
UniRef90_Q83GL5	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI00035FD2EA	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI0003134555	K	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_A0A022FU22	K	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_T0LP16	H	C	D	C	H	G	S	T	Y	D	P	Y	L	G	G	A	V	V	T	G	P	T	V	R	R	P	P	A	V	V	L	E	W	D	S	N	T	T	D	D	Y	L	
UniRef90_B1VHF3	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI000364584D	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_U3TC01	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI00034A441F	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_M2WD61	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_F6EFB8	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_I4WBP5	L	V	C	C	T	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_F8A3N8	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_MODAL0	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_B3EFU3	V	C	C	K	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_F8DZS1	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_W4LHH9	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI0002629CBE	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_C7R4P1	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI0002379210	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI000465429F	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_B3DAM2	N	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI00047BE2F6	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI0004734FFD	Q	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_H5TZZ7	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI0003082FA6	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_I7GD61	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI000479D22B	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI00030ABB0C	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_A6FGU9	Q	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI0003460480	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_A0LTH5	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI0003F6CA5F	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L	A	S	I	L	E	V	D	A	E	T	D	N	I	L
UniRef90_UPI00036B8D82	L	C	C	P	C	H	H	Q	S	Q	F	D	V	T	D	H	C	R	V	I	F	G	P	A	T	Q	R	G	L</														

QUERY Y A V G T N A P Y F S A G L P R T T P Q D N L L Y D P R Y S Y S V P N N P S C S  
 UniRef90\_F2L5B2 Y A V K M V G P V I Y G H P G Y N S P T P S L V I N P  
 UniRef90\_C3MLY2 Y A I G A V G P N G S N G V P T D N P T D D L  
 UniRef90\_F9VML5 Y A V G M N  
 UniRef90\_H2C5T2 Y A V G M N  
 UniRef90\_I2K4V3 W A V A V L G P V  
 UniRef90\_UPI000368F66F Y A K G F I E P V G P A Y W E R R  
 UniRef90\_D3SPL0 Y A V G T V G Q F F E N F K  
 UniRef90\_K2KG71 Y A D G V D E L L Y G  
 UniRef90\_L0LG61 N A V G I D G L I Y G  
 UniRef90\_Q83GL5 I A Q S F K E P V G P S F W E R  
 UniRef90\_UPI00035FD2EA I A Q S F H E P V G P T F W E R R  
 UniRef90\_UPI0003134555 T A V G L E G L L Y G  
 UniRef90\_AOA022FU22 M A V G I E G L I Y G  
 UniRef90\_T0LP16 S A T M L V G P T I Y G H  
 UniRef90\_B1VHF3 I A K G F I E P V G P A F W E R R  
 UniRef90\_UPI000364584D A R H D F D E P V G P A Y W E R  
 UniRef90\_U3TC01 Y A V G F T A L V Y G  
 UniRef90\_UPI00034A441F V A Q S F H E P V G P S F W E R  
 UniRef90\_M2WD61 V A N G F V E A L G P G F W E R R  
 UniRef90\_F6EFB8 V A N G F I E P L G P A F W E R  
 UniRef90\_I4WBP5 I A T G C V G D K F F A  
 UniRef90\_F8A3N8 V A Q S F T E P I G P T F W E R  
 UniRef90\_M0DDL0 Y A T G I D G L V Y G  
 UniRef90\_B3EFU3 F A E G V Q G L I Y G  
 UniRef90\_F8DZS1 I A K G F I E P V G P A F W E R R  
 UniRef90\_W4LHH9 Y A V G V L G L I F G R H D N L V G  
 UniRef90\_UPI0002629CBE V A T G F P E P I G P S F W E  
 UniRef90\_C7R4P1 I A Q D F N E P I G P S Y W E R  
 UniRef90\_UPI0002379210 V A K G F I E P V G P A Y W E R N  
 UniRef90\_UPI000465429F V A R G F I E S L G P A F W E R K  
 UniRef90\_B3DAM2 R A I A V D G L I Y G  
 UniRef90\_UPI00047BE2F6 V A Q S F T E P V G P S F W E R  
 UniRef90\_UPI0004734FFD S A V G V D G L I Y G  
 UniRef90\_H5TZZ7 A A G D F I E P V G P A F W E R K  
 UniRef90\_UPI0003082FA6 V A R S F T E P V G P S F W E R  
 UniRef90\_I7GD61 V A N G F V E P V G P A F W E R K  
 UniRef90\_UPI000479D22B V A T S F Q E P V G P S Y W E R  
 UniRef90\_UPI00030ABB0C V A Q S F R E P V G P T F W E I N T R E T N  
 UniRef90\_A6FGU9 Y A V G I M G L L F G  
 UniRef90\_UPI0003460480 I A K G F S S A V G P T F W  
 UniRef90\_A0LTH5 Y A T G F D E P V G P S F W E R  
 UniRef90\_UPI0003F6CA5F I A T S F P E P V G P S F W E R  
 UniRef90\_UPI00036B8D82 V A Q G F T E P V G A S F W E R  
 UniRef90\_UPI0003681AFC I A K G F D V P V G P S Y W E R  
 UniRef90\_B4WHM1 L T N W E E T D F R T G D K P W  
 UniRef90\_D1A8W5 I A T D F P E P V G P S F W E R  
 UniRef90\_A8V296 Y A V G V D G L I W G  
 UniRef90\_UPI0002D91301 L T D W T E T D F R T G E S P W  
 UniRef90\_U5DF82 F S P W T D T D F R T G E S P W  
 UniRef90\_C7NIC8 K A Q G F A E P V G P S Y W E R  
 UniRef90\_L8LVH3 F S N W T E T D F R T N E A P W  
 UniRef90\_UPI0003465800 F T P W T E T D F R T G E D P W  
 UniRef90\_UPI00031119F3 Y T P W T E T D F R T N E N P W  
 UniRef90\_F9Z052 V A  
 UniRef90\_N0CXR8 W A V G T T G E S V E A G L C R Q L G G E R R I G C P D I G S G A E S P P  
 UniRef90\_UPI00037E09D3 F T P W T E T D F R T G D D P W  
 UniRef90\_F4XV84 F S T W K E T D F R T G E E P W  
 UniRef90\_UPI0003496B56 I S T G F N E P T G P T F W E Y Q  
 UniRef90\_F5XRY8 V A D G F D V P T G P S Y F E R D S R N D  
 UniRef90\_K9XJ95 T P W T E T D F R T G E P W  
 UniRef90\_V4U968 F V P W T E T D F R T G E A P W  
 UniRef90\_H6RSR6 A R S D Y I E P V G P T Y W N R E R  
 UniRef90\_W4TN67 W S L E A T S P F R S A R P T S N  
 UniRef90\_J7L8B5 V A R G F N E P T G P T F W E Y  
 UniRef90\_UPI000477C84C V A Q S F T E P V G P S Y W E R  
 UniRef90\_V6KRW7 Q A E D F A E P V G P A F W E R  
 UniRef90\_M2W8R1 L K T W K E K D F R T D S D P W  
 UniRef90\_B1X5F2 S Q W T E T D F R T G D K P W  
 UniRef90\_W8RAM2 V V I G V D  
 UniRef90\_K9UYF8 T S W T E T D F R T E E E P W  
 UniRef90\_F2R7N9 W A I G T S G E S A R E G L C R Q L G D D D R L G C P G A S A  
 UniRef90\_UPI0003805EB9 I V I G V D  
 UniRef90\_UPI0003481772 I A K G F S E A V G P T F W  
 UniRef90\_UPI0003480ED1 I V I G L D  
 UniRef90\_Q606Q3 I G V  
 UniRef90\_UPI00030DC895 E A L G F E E P P G P S F W E R  
 UniRef90\_A3YBV6 I L V G D D G  
 UniRef90\_I3I8K3 V V I G E D  
 UniRef90\_W0SFV2 V  
 UniRef90\_A11PK5 L L I G E D  
 UniRef90\_UPI00036623A5 A V R D Y K D T V G P D F W E R  
 UniRef90\_UPI0003717D6E I I I G E E T  
 UniRef90\_UPI00036DOB2A I I I G E E T  
 UniRef90\_UPI0003689DD8 I V I G V D  
 UniRef90\_UPI00036F21A4 V A L S Y P E P V G P S F W E R E T K S P Q A I Y D  
 UniRef90\_UPI00036D4B25 L T D W E E T D F R D G S N P W  
 UniRef90\_K9YM09 L I I G V D E  
 UniRef90\_UPI000262CD3E I A T G F E G P I G P  
 UniRef90\_U2YWT7 L T Q W T E E D F R T N E D P W  
 UniRef90\_UPI000475647A L T Q W T E E D F R T N E D P W

QUERY N G  
UniRef90\_F2L5B2  
UniRef90\_C3MLY2  
UniRef90\_F9VML5  
UniRef90\_H2C5T2  
UniRef90\_I2K4V3  
UniRef90\_UPI000368F66F  
UniRef90\_D3SPL0  
UniRef90\_K2KG71  
UniRef90\_L0LG61  
UniRef90\_Q83GL5  
UniRef90\_UPI00035FD2EA  
UniRef90\_UPI0003134555  
UniRef90\_A0A022FU22  
UniRef90\_T0LPI6  
UniRef90\_B1VHF3  
UniRef90\_UPI000364584D  
UniRef90\_U3TC01  
UniRef90\_UPI00034A441F  
UniRef90\_M2WD61  
UniRef90\_F6EFB8  
UniRef90\_I4WBP5  
UniRef90\_F8A3N8  
UniRef90\_M0DDL0  
UniRef90\_B3EFU3  
UniRef90\_F8DZS1  
UniRef90\_W4LHH9  
UniRef90\_UPI0002629CBE  
UniRef90\_C7R4P1  
UniRef90\_UPI0002379210  
UniRef90\_UPI000465429F  
UniRef90\_B3DAM2  
UniRef90\_UPI00047BE2F6  
UniRef90\_UPI0004734FFD  
UniRef90\_H5TZZ7  
UniRef90\_UPI0003082FA6  
UniRef90\_I7GD61  
UniRef90\_UPI000479D22B  
UniRef90\_UPI00030ABB0C  
UniRef90\_A6FGU9  
UniRef90\_UPI0003460480  
UniRef90\_A0LTH5  
UniRef90\_UPI0003F6CA5F  
UniRef90\_UPI00036B8D82  
UniRef90\_UPI0003681AFC  
UniRef90\_B4WHM1  
UniRef90\_D1A8W5  
UniRef90\_A8V296  
UniRef90\_UPI0002D91301  
UniRef90\_U5DF82  
UniRef90\_C7NIC8  
UniRef90\_L8LVH3  
UniRef90\_UPI0003465800  
UniRef90\_UPI00031119F3  
UniRef90\_F9Z052  
UniRef90\_N0CXR8  
UniRef90\_UPI00037E09D3  
UniRef90\_F4XV84  
UniRef90\_UPI0003496B56  
UniRef90\_F5XRY8  
UniRef90\_K9XJ95  
UniRef90\_V4U968  
UniRef90\_H6RSR6  
UniRef90\_W4TN67  
UniRef90\_J7L8B5  
UniRef90\_UPI000477C84C  
UniRef90\_V6KRW7  
UniRef90\_M2W8R1  
UniRef90\_B1X5F2  
UniRef90\_W8RAM2  
UniRef90\_K9UYF8  
UniRef90\_F2R7N9  
UniRef90\_UPI0003805EB9  
UniRef90\_UPI0003481772  
UniRef90\_UPI0003480ED1  
UniRef90\_Q606Q3  
UniRef90\_UPI00030DC895  
UniRef90\_A3YBV6  
UniRef90\_I3I8K3  
UniRef90\_W0SFV2  
UniRef90\_A11PK5  
UniRef90\_UPI00036623A5  
UniRef90\_UPI0003717D6E  
UniRef90\_UPI00036D0B2A  
UniRef90\_UPI0003689DD8  
UniRef90\_R7WZ37  
UniRef90\_UPI00036F21A4  
UniRef90\_UPI00036D4B25  
UniRef90\_K9YM09  
UniRef90\_UPI000262CD3E  
UniRef90\_U2YWT7  
UniRef90\_UPI000475647A

	1	10	20	30	40
UniRef90_D5VD62					Y R G K
UniRef90_K0I6M1			V D I S D L A P G V E W R G K P V W V		M R R T
UniRef90_S3DKY7			D I S K L Q E G E M I R V K		W R G K
UniRef90_K7SLX2			V D L S T L K A G Q Q W R G W P V F V		Q R R T
UniRef90_Q21U78			D I S A L K P G E K M T G K P V W I		L R R T
UniRef90_MOCIV3					
UniRef90_A3PB15					
UniRef90_A1U3H6			V N V D K I E P G Q Q I T		V E W R G K
UniRef90_M5DN30			V D V S K I E P G A M L T G K P V Y I V		R R T
UniRef90_UPI0003765489			V D I S K L E A G Q L V R K K P V W I F		K R D
UniRef90_UPI0003793BC1	P A L R I	A G L D E L G I G E	S K P	F L Y P H D N E	
UniRef90_B7RTL5		A D I G K L E P G Q M V		V I E W R G K	
UniRef90_N6W9C9		V N I D K I E P G Q Q I T		V E W R G K	
UniRef90_B5JRP1		A D I S K L E A G R R V T F K		W R G K	
UniRef90_UPI00036EC4A7		V D L S K I E P G		M L L T V E W R G K	
UniRef90_F3LC15				W R G K	
UniRef90_C6HY64					
UniRef90_W9TX57		V D I S K I E P G Q L V R		V E W Q G K	
UniRef90_P95521				P V V R Y F I P S S G G	
UniRef90_UPI000365EF0C		V D I S K I E P G		M L L T A E W R G K	
UniRef90_B5Y3C8					
UniRef90_F3L1M3		A D I S K L E P G Q M W R G K P V Y V V N		R T	
UniRef90_A4YUT2		D D L K V G E P		P I H A W P K D A	
UniRef90_M8D5C0	G S G K Y P R K K	I V E A E A V K T G E A V E		F F Y P S D H E	
UniRef90_UPI0002E2ED04					W R G K
UniRef90_UPI0004765436		V D I S A L K P G E K M T		V E W R G K	
UniRef90_I2JGK5		A D I S K L E P G Q M V		V V E W R G K	
UniRef90_N2JCY2		V N I S K L E P G R Q I		V I E W R G Q	
UniRef90_A0A011PQV8		V D I G S L E P G Q M I T G K P V W I F N		R S	
UniRef90_B8HNR1				P V V R Y F I P P A S G G	
UniRef90_A4RS90					W R G K
UniRef90_B2UEZ9					W R G K
UniRef90_A1K4U7					L K R T
UniRef90_B2UDT7		A D V S D L A P G Q M W R G K P V W L		V A W R G K	
UniRef90_K0DQX9		V D I S D L K P G D M K T		E G K	
UniRef90_G9QP51					Y R G K
UniRef90_L2F6Z1		V D V S G V E P G T Q L T V K Y L		G K	
UniRef90_A3JUZ4					W R G Q
UniRef90_K2KBY4					W Q G K
UniRef90_D0I4Z2					M R R T
UniRef90_Q0K6A5		A D I G A L K P G E M M T G K P V W I		N I S W R G Q	
UniRef90_R4VLY6					G K
UniRef90_Q0FQA1	V V G A D G T P K L L		A A A D V K L G E K P V F A F P Y		D A D K
UniRef90_A9XNS4					W R G K
UniRef90_A2SCN7					
UniRef90_A6FEX7					G K
UniRef90_F0RP18					W R G K
UniRef90_W4HGP5					W R G K
UniRef90_A0YES1					W Q G K
UniRef90_U1MDQ9	V V Q L D E I P E G E T K T				R E A
UniRef90_J2I1J8					
UniRef90_A5DC66					W Q G K
UniRef90_B5I8S2					W Q G K
UniRef90_UPI0004797A4E					W R G Q
UniRef90_A5DZ68					
UniRef90_UPI00036E3456					
UniRef90_UPI000414C6B1					
UniRef90_P70758		V V D I S A L A E G Q R L V D E			W R G Q
UniRef90_I1DXS7		A D I S K L E P G Q		L I R V E W R G K	
UniRef90_UPI00035D60C9		V D I N N I Q P G Q S M T		V S W R G K	
UniRef90_D8FZ15					
UniRef90_Q93SW6				P A T K F F M P P A E S T	
UniRef90_Y0KEF3					W R G Q
UniRef90_UPI0003B37CA5					W Q G K
UniRef90_L8GC67		L V N M S A S A D V L A M A K V E V D L A A I P			W R G K
UniRef90_UPI0002FDB785					W Q G K
UniRef90_A0A016XK63		V D I A A L K P G E K V T G K P V W I			M K R T
UniRef90_UPI0002FCA1E7		V D I S D L A P G E M K T G K P V W I			L K R S
UniRef90_G8ZPX0					W Q G K
UniRef90_S4XXS7					
UniRef90_F7ZLP3		V D V S G V Q P G T Q L T L K			W Q G K
UniRef90_R1ENL0					
UniRef90_E1X2U4					F S Y P N
UniRef90_H5SFT7					F L F P N A S E
UniRef90_D0J026		V D I S N L K D G E K L T		V E W R G K	
UniRef90_F7QJH9		A P I E V D L S P I A T G Q D I K V F			W R G K
UniRef90_UPI00046396B9		V D V S A I E P G M S V T A K			W R G K
UniRef90_W6VYZ2		V N V A A L Q P G M S L T V K			W R G K
UniRef90_H3A401		S K I E I K L A D I P N M T F K W			R G K
UniRef90_UPI0002E47DD5		A N V S S L A P G K L M T			V E W R G K
UniRef90_K6H1V6		Q I G Q K I Q V S			W R K Q
UniRef90_UPI0004695EE1					G K
UniRef90_UPI00041D61C2					W R G K
UniRef90_UPI00046A9B4F					W Q G K
UniRef90_M2TPF0		V D V A P I G Q G I K V S			W R G K
UniRef90_C4R0S5	V K L A N I P E G K N V I				V K W Q G K
UniRef90_C0N8W2		V D L S K L E M G Q L L T G K P V W I F			R R S
UniRef90_K1ZZZ9		D T E A A S A P I K S N L K P R D Q L T V P			W R G M
UniRef90_F0W758					W R G K
UniRef90_D6TR61					
UniRef90_UPI000472136A		Q A N V P I A N Q A T P T V S T P P G S T A T			Q R R T
UniRef90_G3GWW7		D I A A L R P G Q Q W R G W P V F I			W R G K
		S K I E I K L S D I P E G K N A F K W R G K			

UniRef90\_D5VD62 P I F V V K R T E E M V A N L S K V S D P N S E A S V Q Q P E A C K N E T R S L Q  
UniRef90\_K0I6M1 P E M L A A L P Q Q D A A L A D D P N S R K D Q Q Q P E Y A R N T P Q R S I R  
UniRef90\_S3DKY7 P V W V V R R T Q S S L D N L K L R D D P N S K A D Q Q Q P V I A Q N T Y R S I K  
UniRef90\_K7SLX2 P E M L K T L Q D P A L L L Q K L R D D P E S C I F Q Q Q P K D A T N W H R S I V S  
UniRef90\_Q21U78 P E Q L A A L S T L D P Q L A D P K S E R R K P A E Q A P A Y A R N A T R S I K  
UniRef90\_MOCIV3 A E E G E Q L T T K T F G P A R P G I A D A P T L L V R Y P E D A Y  
UniRef90\_A3PB15 K D E L G N P L T K T G Q A G D R S L V Q G L K G D P T Y L V N  
UniRef90\_A1U3H6 P V W I R R T D A M L E N I E K V K D P E S E E A Q Q Q P A Y I A E T G H Q R S  
UniRef90\_M5DN30 P E T L D T L G T L A G R L K D D P E S N K E Q Q Q P A Y A D N G F R S R K  
UniRef90\_UPI0003765489 E K A L E S L D S E D I S K L A D A D G T G N S K S Q Q P D Y V T A N Y R S I E  
UniRef90\_UPI0003793BC1 P A L L I R L  
UniRef90\_B7RTL5 P V V V M H R T D A L P E L N S V L K D P E S K I S D Q Q P A Y I T G V D R A I R  
UniRef90\_N6W9C9 P V W I V R R T D E M L Q N I E K V K D P P Q S E T T Q Q Q P E Y V E G L Y R S I K  
UniRef90\_B5JRP1 P V W I V N R T D K M L A D M K T L A D D P N S E A P Q Q Q P E Y T Q N G T R S I K  
UniRef90\_UPI00036EC4A7 P V W V V N R T K E M G K H D D K L A D A M S E Q P D Y C K N E A T R S I K  
UniRef90\_F3LC15 P V Y V V R R T Q E A L E G L K K V T N D I S D P D S Q Q S V Q P E Y V A G R S  
UniRef90\_C6HY64 E P P T V F K I G H V S I Y G L G V D E R W K L K G V R  
UniRef90\_W9TX57 P V W L V R R T Q S V L D N L D K L R D P Q S E M E Q Q P E Y A Q N E F R S I K  
UniRef90\_P95521 A G G V T A K D A L G N D V V A T H T P G E R V L A E G L K G D P T Y L V V E  
UniRef90\_UPI000365EF0C P V W V V N R T D L M A K H T D K L V D P N S E Q P Q Q P P Y C K N A T R S I K  
UniRef90\_B5Y3C8 E V D A K K Y L E E K P E G D R S L V E G L K G D A T Y L V K  
UniRef90\_F3L1M3 Q E M L D N L P R L N D R L K D P D S A I S Q Q P T Y I S G V D R A L R  
UniRef90\_A4YUT2 A N A I V R D A S R L N E V L I V R L D P A E L D D D T R Q R A  
UniRef90\_M8D5C0 G A L L V R V G  
UniRef90\_UPI0002E2ED04 P V W V V R R A D G L K A L D D Q L R D P V S G E E Q Q P A Y A Q N A Y R S I K  
UniRef90\_UPI0004765436 P V W I V R R T P E L S K H D N E L A D D P L S E R K A Y P I P E Y A K N E W R S  
UniRef90\_I2JGK5 P V Y V V R R T Q E Q V A G L K E L K D P P E S S G S D Q Q P E Y V E V A T R S I R  
UniRef90\_N2JCY2 P V F V L R R G A D A L E R L S R L A D D P D S H D S I Q Q P D Y V N S R L R S I R  
UniRef90\_A0A011PQV8 P S M L E T L P K L D D S V A D P K S E K N M Q P A Y C K N E T R S I K  
UniRef90\_B8HNR1 V G G G V V A K D A L G N D I S V S D F L A D R A L A Q G L K G D A T Y I V V K  
UniRef90\_A4RS90 D I K K G E W L K T H L P G D Y S L T Q G L K G D A T Y L V K  
UniRef90\_B2UEZ9 P V W I L H R T D R L G T H D N L L G D P R S K E D Q Q Q P A Y A R N A T R S I R  
UniRef90\_A1K4U7 P V W I L H R D A M E A H A A R L A D A G S A V T P D Y A R N A H R S I R  
UniRef90\_B2UDT7 P D M L E S L K K T D N E V A D P K S D V P F T M K T P D Y C K N E T R S R A  
UniRef90\_K0DQX9 P V W I I N R T E K M L A D V Q E V A D P H S K N P P L P E Y C N N E F R S R T  
UniRef90\_G9QP51 G N F H A T K K Q V D D L T E T P T R V D F T Y E Q K D A W Y T A W V Y K T  
UniRef90\_L2F6Z1 P I Y I V K R T K E M M D G L T K V I E D P N S E S S L Q P E Y C K N Q S R S K  
UniRef90\_A3JUZ4 P V F I R R R T D A K A V E L A D L I D D Q G S E N S N K P D D A S D A N R S I D  
UniRef90\_K2KBY4 P V W V V R R S P E M P E H D D R L R D P K S E E P Q Q Q P E Y A T N E Y R S I K  
UniRef90\_D0I4Z2 P V W V V R R G K P E M L E T L N E L R D P D S L E P Q Q Q P E Y A G N T Y R S V K  
UniRef90\_Q0K6A5 D E Q L A S L K K T D G E V A D P N S E I A F T M Q T P E Y C K N E T R S R A  
UniRef90\_R4VLY6 P V W V I R R S E A A L E A L D T L A D P A S D V A Q Q Q P S Y A Q N T H R S I D  
UniRef90\_Q0FQA1 P V F I R R R T E A A G V E M S E L V D P V A R N P N I P E G A D A T D A N R A  
UniRef90\_A9XNS4 D V L A A E W L K D H G P G D R T L T Q G L K G D P T Y L V V E  
UniRef90\_A2SCN7 K L V R D G S R L N K V L L I R L E P G S L D E A N T R A R S  
UniRef90\_A6FEX7 P V W L V S R T E S V L N E L E Q L R D P A S E Q E Q Q P S Y A Q N K Y R S I K  
UniRef90\_F0RP18 T D A D G N Q I T R K G E P A L Y K F A S G E L G G E A N V E A A  
UniRef90\_W4HGP5 P V F I R R R T A E A V D L S Q L I D P R N E N Q G E A D A V D E N R T L D  
UniRef90\_A0YES1 P V Y V V R R T A E A V A Q L A E L I D G S L K D P D S V N N Q P D Y V K N N H R S I R  
UniRef90\_U1MDQ9 P V F V K H R T D E K A V D V A Q L R H P Q H D D E R V Q R D E W L V L L G  
UniRef90\_J2I1J8 P V W I V K R T E E M L A Q L A D R D P G S K E P Q Q Q P A Y A Q N R H R S I K  
UniRef90\_A5DC66 P V F I R R T A E E I D E A N K V D K K L R D P Q N D A D R V K K P  
UniRef90\_B5I8S2 P T F L K T Q G K V A A P L E S L P P G E G A V V R V N G D R L A V Y R D  
UniRef90\_UPI0004797A4E L S E D E V S E E P Q R V D F T R E I E D G W Y E S E Q N V R  
UniRef90\_A5DZ68 P V F I R H R T A E N D V D V S K L R D P E T D A Q R V K K P E W L V M L G  
UniRef90\_UPI00036E3456 P V F I L R R T P S S P A H A K L R D P D S S V N N Q P D Y V K N N H R S I R  
UniRef90\_UPI000414C6B1 P I W I V K R S D I L P T L D P R L A E P E S T T D Q Q P D Y A R N E L R S I K  
UniRef90\_P70758 L G Q I P A S Q I L A E P P Q T R A L V A G L A G E P T Y L V I K  
UniRef90\_I1DXS7 P V W I V K R P D A L A N H E D K L R D P E S A V A Q Q P A Y A Q N R Y R S K K  
UniRef90\_UPI00035D60C9 P V F I K H R T E E E I K E A R E V K D P E E D N V R V K S E H D K W L V V I G  
UniRef90\_D8FZ15 G A I I A K K E L G N P I P A S Q I L V A P S G T R A L V A G V K  
UniRef90\_Q93SW6 D A E G G V L A K D K I G H P I P A S Q I L V A P S G T R A L I A G V R  
UniRef90\_Y0KEF3 P V W I I H R T E E M L A K L D Q L S D P D L N V P Q Q Q P E Y C K N K G R A  
UniRef90\_UPI0003B37CA5 P V F I R H R T S E E I A E A E E V P D P E P D A E R V I E P Q W L V M V G  
UniRef90\_L8GC67 P V F I R H R T A D E I K E A E D I K I E S L R D P Q Q D A D R V K K P  
UniRef90\_UPI0002FDB785 P V Q L A T R R G E Q T L E E L D K L R D P E S Q E P Q Q Q P E Y I T G A Y R S I K  
UniRef90\_A0A016XK63 P E Q L A T R L E K D E D Q L A D P N S D R K A Y P T P E Y A K N R H R S I K  
UniRef90\_UPI0002FCA1E7 P A M V A E L P K L D P L L A D P K S Q R N P D D L T P P Y A R N E H R S I K  
UniRef90\_G8ZPX0 P V F I R H R T E A N D I I S S L K D P Q T D A D R V K D P Q W L I M L G  
UniRef90\_S4XXS7 P V F L V R E R R P S P R L A D V P V R S A I V F D Y P G E L D P C L L I R L  
UniRef90\_F7ZLP3 P V F I R A R T E E A T D L T D L P D Q Q N A N L A G D A D A D E N R A L S  
UniRef90\_R1ENL0 A A K W A A A N P Y P G R A L V E G L K G D A H Y L T V K  
UniRef90\_E1X2U4 V S F D P E M D F D A G R P G Y E E G V D E R W K N G Y G V W M V K  
UniRef90\_H5SFT7 P P M T F K A G Y P D Q Y E D D K V V E R F K E E Y G V W I V R L R T P K G V  
UniRef90\_D0J026 P V W I I K R T P E Q L K D L P E L A D P T S A R H P T P Y A R N E A R S I K  
UniRef90\_F7QJH9 P I Y I M R D E A R S V N V S S L P D P Q T D Q S R V K E G H D Q W L V V I G  
UniRef90\_UPI00046396B9 P I F I R N R T E E E A V E L S E L K D P V A R N A N A P A D A Q A T G I G G A G  
UniRef90\_W6VY22 P V F I R N R T P E A D V P M A E L K D P V A R N A N A P A D A Q A T G I G G A G  
UniRef90\_H3A401 P L F V R H R D H E A G V S L T E L R D P Q H D L D R V K K P E W M L V I G V  
UniRef90\_UPI0002E47DD5 P V W I L H R S D A M G Q H N D L L A D P D S S K S E Q P A Y A K N P G R S I R  
UniRef90\_K6H1V6 P V F V I R H S K E A L E S L S K L D D P S S L K L D E P Y R D I N T L S T S  
UniRef90\_UPI0004695EE1 P V F I R R R T P E E A V E L S L S D L P D Q G A E N A N I A S D A T A D E N R S  
UniRef90\_UPI00041D61C2 D L T E E P Q R F N F T I E Q E D A W Y T S V I A W V Y  
UniRef90\_UPI00046A9B4F P V F I R R R D E A R A V A L A D L R D P V A A Q N D N G S V D A S D E N R T L D  
UniRef90\_M2TPF0 P V F I R H L T E R E A V D V A S L R D P A T F D N E R T Q E G H R Q Y L I Q I G  
UniRef90\_C4R0S5 P V F I R H R T E A N D I I S T L R D P Q K D A D R V K N P E W L I M L G  
UniRef90\_K0N8W2 Q E V L T T L G S M D D T L R D P D S E V S Q Q Q P E Y C K N D T R A I R  
UniRef90\_K1ZZZ9 P I W F I Y R D D S L S K V A D E L R D P L S E Q D Q Q P A Y C K N I H R S I K  
UniRef90\_F0W758 P I F I K H R T D A N D V P V S S L R D P E T D D V R V K D P K W L V V L G V  
UniRef90\_D6TR61 A T S V E S P S N G A L A R V S D V L R D P N S A L P F I L D A G S G Q N A L L H L  
UniRef90\_UPI000472136A P E M L A S L K A T E I V Q H L R D P D S K I L Q Q P K D A T N W H R S V V  
UniRef90\_G3GWW7 P L F V R H R T Q E A A V E V S Q L R D P Q H D L E R V K K P E W V I L I G V



UniRef90\_D5VD62 P E L L V V E G V C T H L G C A P T Y R P E V G A A D L G G A D W F G G F 120  
UniRef90\_K0I6M1 P E Y V F V T V G I C T H L G C S P I A V P A G T S N T S V G D Q W Q G G F  
UniRef90\_S3DKY7 P E Y F L A V G I C T H L G C S P S Y L S K K F S E Q V Q G V A E S G F  
UniRef90\_K7SLX2 P D I G V M I G I C T H L G C V P T F D A P T Q A E P A G K Y F  
UniRef90\_Q21U78 P E Y F V A V G I C T H L G C S P S D K F Q A G A Q P S L P D D W Q G G F  
UniRef90\_MOCIV3 G G G G Y A A Y S K V C T H A G C M V S D T E G E T L  
UniRef90\_A3PB15 E V G E I F G L N A I C T H L G C V V P W D S G A N K F  
UniRef90\_A1U3H6 L K P E F I V L V G I C T H L G C V P T Y R P E V A P A D L G D E W L G G L  
UniRef90\_M5DN30 P E L L V L L G V C T H L G C S P K Y F A E V K P E P F D S D W K G G W  
UniRef90\_UPI0003765489 N K E S V A V I V G V C T H L G C S P T Y R P E P G A A D L G G D S W K G G F  
UniRef90\_UPI0003793BC1 S E K E Y R S Y H I K C T H L G C V P Y W D Q A S G K M  
UniRef90\_B7RTL5 P E L L V L V G I C T H L G C A P K F R P E V G A A D L G G D E W L G G F  
UniRef90\_N6W9C9 P E I A V L V G I C T H L G C V P S Y R P E V A P A D L G Q D W L G G F  
UniRef90\_B5JRP1 D K Y L V L V G I C T H L G C S P Q F R P E V A A E D L G A D W K G G F  
UniRef90\_UPI00036EC4A7 P E Y L V A V G I C T H L G C S P S E K L K L G G D S G M G S D W P G G F  
UniRef90\_F3LC15 I N P E F M L M L G V C T H L G C A P K F R P D V G A K D L G G D A W Q G G F  
UniRef90\_C6HY64 N M R G I Y N M I S I C R H L G C T P N W F P D Q K R F  
UniRef90\_W9TX57 E E Y F V A V G F C T H L G C S P T Y L P D S F S E Q V Q G V R S G F  
UniRef90\_P95521 D A G R S Y G I N A V C T H L G C V V P W N A S E N K F  
UniRef90\_UPI000365EF0C P E F L V A V G I C T H L G C S P T Y R K E V G A A D L G A D W P G G F  
UniRef90\_B5Y3C8 D D K T F Y G L N A I C T H L G C V P W S E A N N K F  
UniRef90\_F3L1M3 P E L L V V E G I C T H L G C A P K Y R P E V G A A D L G G D A W L G G F  
UniRef90\_A4YU2 A D G L V A Y S A I C S H A G C P V T A W I K A S E G N D D V F  
UniRef90\_M8D5C0 E D E W R A Y Q N A C T H L K C P V F W S T E K N E L  
UniRef90\_UPI0002E2ED04 P E Y F V A V G I C T H L G C S P T Y L P D S F S E Q V Q G V K S G F  
UniRef90\_UPI0004765436 I K K E Y L V V I G V C T H L G C S P S D K F A A G P Q P S L P D D W P G G F  
UniRef90\_I2JGK5 P E Y M V L V G L C T H L G C A P K H P E V G V P A D L G G K S W L G G F  
UniRef90\_N2JCY2 P D V L V V V G V C T H L G C S P T Y R P E V A P A D L G T E W L G G Y  
UniRef90\_A0A011PQV8 P E I L V A V G I C T H L G C S P S N K F K K G T D E G M D S S W L G G F  
UniRef90\_B8HNR1 D D H T I Y G L N A V C T H L G C V V P W N I S E N K F  
UniRef90\_A4RS90 Q D G S L F G L N A V C T H L G C V V P W N K A E N K F  
UniRef90\_B2UEZ9 P D Y F V A V G I C T H L G C I P N Y R P E V G A P D L G D H W P G G F  
UniRef90\_A1K4U7 P E F L V V V G I C T H L G C S P S E K F A A G A A A G M P A D W P G G F  
UniRef90\_B2UDT7 E H K D L L V V V G I C S H L G C S P S G P F P A G A N V Q L A A D P G F  
UniRef90\_K0DQX9 D H K N I F V A V A V C T H L G C T P R F Q E G A Q P N L P D D W P G G F  
UniRef90\_G9QP51 K N G D I V A L S P I C K H L G C T V N W N A N K S H P N M F  
UniRef90\_L2F6Z1 D N S E V L V C E G V C T H L G C A P T F R P E V G A A D L G G N S W F G G F  
UniRef90\_A3JUZ4 E A G E W L V M I G V C T H L G C V P I G N E A G D F G G W  
UniRef90\_K2KBY4 K E I F V A V G I C T H L G C S P Q Y L P E E M G D H V N G V Q A G F  
UniRef90\_D0I4Z2 P E I F V A V G L C T H L G C S P T Y L P D S F S E Q V E G V A A G F  
UniRef90\_Q0K6A5 E H K D V L V V V G I C S H L G C S P S G P F A A G A N S Q L G S D P G F  
UniRef90\_R4VLY6 P E F L V V V P I C T H L G C I P S Y M P K A G S L D A D W Q G G F  
UniRef90\_Q0LQA1 L D G E W L V M M G V C T H L G C V P L G N A G E Y T A G G V G W  
UniRef90\_A9XNS4 N D R T L Y G I N A V C T H L G C V V P W N A A E N K F  
UniRef90\_A2SCN7 A D G V L A F S A V C T H L Q G G D V S E W V P E S R S L  
UniRef90\_A6FEX7 S E L L V A V G I C T H L G C S P T Y L P D S F G E Q V E G V S S G F  
UniRef90\_F0RP18 I D G Q V V A Y S D I C T H A G C V P P D A K D G T G M  
UniRef90\_W4HGP5 P D G Q W L V M M G V C T H L G C V P L G N G A G D F D G W  
UniRef90\_A0YES1 I N S E Y M V L V G I C T H L G C A P K Y R P E V D T V P T S D G S D W V G G F  
UniRef90\_U1MDQ9 I N S E Y M V L V G I C T H L G C V P I P N S D E F P G G Y  
UniRef90\_J2I1J8 P E I F I A V G I C T H L G C S P T Y L P S D F A A Q V E G I R S G F  
UniRef90\_A5DC66 P E E W L V M L G I C T H L G C V P I G E A G D F G G W  
UniRef90\_B5I8S2 D D G D L H A V S P R C T H L G C L V S F N G A E D A W  
UniRef90\_UPI0004797A4E I D G E I L A L S P I C T H L G C T V D W G T N D D H P E E F  
UniRef90\_A5DZ68 I D G E I L A L S P I C T H L G C V P I G E A G D Y G G W  
UniRef90\_UPI00036E3456 P E I F V C V G V C T H L G C V P E Y K K T G L Q E D N D A L Y  
UniRef90\_UPI000414C6B1 P E I S V L V G L C T H L G C A P E M V A E I K P E P F D P E W K G G Y  
UniRef90\_P70758 E D H T L I G L V D N C T H L G C T F P W N P L D Q Q F  
UniRef90\_I1DXS7 P E L F V A V G I C T H L G C S P T Y L P S D F S A Q V E G V T S G F  
UniRef90\_UPI00035D60C9 I N S E Y M V L V G I C T H L G C V P I D H K G D Y G G W  
UniRef90\_D8FZ15 Q D G A I I G I V D N C T H L G C T F P W N E T D Q Q F  
UniRef90\_Q93SW6 E D G T L M G I V N N C T H L G C T F P W N P V D Q Q F  
UniRef90\_Y0KEF3 I N E K Y A V M L G T C T H L G C S P N A N F A E T A D W D G G F  
UniRef90\_UPI0003B37CA5 I N E K Y A V M L G T C T H L G C T P L G Q S S S D P K G D F G G W  
UniRef90\_L8GC67 E W L V M I G V C T H L G C V P I G E A G D F G G W  
UniRef90\_UPI0002FDB785 P E I F I A V G I C T H L G C S P T Y L P D S F G E Q V Q G V T S G F  
UniRef90\_A0A016XK63 P E V F V G V G I C S H L G C S P T D K F T P G A Q P S L P D N W P G G F  
UniRef90\_UPI0002FCA1E7 P D V L V A V G I C S H L G C S P T A R F Q A G P Q P S L P D D W A G G F  
UniRef90\_G8ZPX0 I D G E W L V M M G V C T H L G C V P I G E A G D F G G W  
UniRef90\_S4XXS7 A D G G V V A F S Q K C T H L S C A V V P R I D Q G V I  
UniRef90\_F7ZLP3 E D G V W L V Q M G I C T H L G C V P L G E A G D F G G W  
UniRef90\_R1ENL0 E D K T L Y A I N A V C T H L G C V P F N R A Q L K Y  
UniRef90\_E1X2U4 Q E G R L V A L S N I C T H L G C I P N W L P A E L K F  
UniRef90\_H5SFT7 E I F A L R T V C T H L G C T P N W L E N E Q K F  
UniRef90\_D0J026 P E L L V V V G I C T H L G C S P T D K F V A G P Q P S L P A D W K G G F  
UniRef90\_F7QJH9 I N S E Y M V L V G I C T H L G C T P I A H E G N Y D G F  
UniRef90\_UPI00046396B9 M E N W I V M V G S C T H L G C V P L G Q S G D F G G W  
UniRef90\_W6VY22 K E N W I V M I G S C T H L G C V P L G Q S G E Y N G W  
UniRef90\_H3A401 I D G E W L V M M G V C T H L G C V P I A N A G E Y G G Y  
UniRef90\_UPI0002E47DD5 P P F F V V T G I C T H L G C V P G F R P E P G A P D L G A N W P G G F  
UniRef90\_K6H1V6 T E Y T V I A G V C T H L G C A P K Y Y P E M E S Q P W D E S W V G G F  
UniRef90\_UPI0004695EE1 L D G E W L V M M G V C T H L G C V P P L G D A G D F G G W  
UniRef90\_UPI00041D61C2 R E G D I V A L S P V C T H L G C T V N W E G N E D Y P E Q F  
UniRef90\_UPI00046A9B4F E A G E W L V M M G V C T H L G C V P L G D A G D F G G W  
UniRef90\_M2TPF0 I D G E W L V M M G V C T H L G C V P I P M G V A D G E P K G D Y D Y G  
UniRef90\_C4R0S5 I D G E W L V M M G V C T H L G C V P I G E A G D F G G W  
UniRef90\_CON8W2 D E L M V L V G I C T H L G C S P T Y R P E L A P A D L G K D W K G G F  
UniRef90\_K1ZZZ9 P Q Y L V T I G I C T H L G C V P T Y R P D V G S V T S V W L G G F  
UniRef90\_F0W758 I D G E W L V M M G V C T H L G C V P I S N A G D Y K G W  
UniRef90\_D6TR61 D S N Q F V A Y S A R C T H A G C T V S Y D S D S K L  
UniRef90\_UPI000472136A P E I G V L I G I C T H L G C V P S Y A T P S A N D K A K Y  
UniRef90\_G3GWW7 I D G E W L V M M G V C T H L G C V P I A N A G D F G G Y

UniRef90\_D5VD62 F C C P C C H G S L Y D L L A A G R V V Y N G P A P T N L L P V P I Y S L D G S I  
UniRef90\_K0I6M1 F F C C P C C H G S T F D L L A A G R V V F K N G P A P T N L L E V P P H R Y V S D T  
UniRef90\_S3DKY7 F C C C P C C H G S K F D L L A A G R V V F Q N G P A P S N L L I V P P K H M Y S D T Q  
UniRef90\_K7SLX2 F C C C P C C H G S Q F D L L A A G R V V R N A P A P Y N L L P V P P V T M I S L S D T  
UniRef90\_Q21U78 F C C C P C C H G S T F D L L A A G R V V F K N G P A P D N L L E V P P H V Y L S S D T  
UniRef90\_MOCIV3 V C C C P C C H G S K F D L L A A G S G A S V V G R G P P P R A L L P Q L P L T L E S S D D A G H L  
UniRef90\_A3PB15 I C C C P C C H G S K F Y D P T S N G S G K V V V G P P A P L N L L A L A H V D L E S D D A V L L  
UniRef90\_A1U3H6 F C C C P C C H G S K F D L L A A S G R V V F T G P A P L N L L E V P P Y R F D D D A T  
UniRef90\_M5DN30 Y C C C P C C H G S R F D L L A A G R V V F N G P A A T N L L V V P P Y S Y E S D N V  
UniRef90\_UPI0003765489 Y C C C P C C H G S K F D L L A A G R V V Y A G P A P T N L L V I P P Y Q Y V T D S L  
UniRef90\_UPI0003793BC1 T F C C P C C H G S N G F F N V L E D G S V L A G P P Q R P L P A V R L D F R K D G I  
UniRef90\_B7RTL5 F C C C P C C H G S K F D L L A A S G R V V Y S Q S P A S K N L E V P P Y S F E S D N V  
UniRef90\_N6W9C9 F C C C P C C H G S K F D L L A A G R V V Y A G P A P T N L M V I P P H Y Y T D D N T  
UniRef90\_B5JRP1 F C C C P C C H G S K F D L L A A A R V V Y K G P A P T N L V I P P H Q Y L S D  
UniRef90\_UPI00036EC4A7 F C C C P C C H G S T F D L L A A G R V V Y K G P A P T N L E L P P H Q Y E T D S I  
UniRef90\_F3LC15 F C C C P C C H G S K F D L L A A G R V V Y K G P A P T N L E L P P H Q Y E T D S I  
UniRef90\_C6HY64 F C C C P C C H G S Y D A H G N V V R G G P A P R T L W R G Q I T R D P L D G E L  
UniRef90\_W9TX57 F C C C P C C H G S K F D M A G R V V F Q G P A P L N L V V P K H M Y L S D T K L I  
UniRef90\_P95521 I C C C P C C H G S Q Y D A T E G K V V R G P A P L S L A L V H T D V T E D G K L A  
UniRef90\_UPI000365EF0C F C C C P C C H G S R F D L L A A A R V V F K N P A P T N L V I P P H Q Y  
UniRef90\_B5Y3C8 I C C C P C C H G S Q Y D E E S G R V V Y A G P A S T N L V V P P H V D V Q D N K V R L  
UniRef90\_F3L1M3 F C C C P C C H G S K F D L L A A S G R V V Y A G P A S T N L V V P P Y S F E S D N V  
UniRef90\_A4YUT2 K C M H H N S E Y D P R R G A Q V V F G P A P R R L A A L P L I I R D G A L V V  
UniRef90\_M8D5C0 L C C C P C C H G K F D V M T G E P L A G P P R R A L P E I E L E L E G S I  
UniRef90\_UPI0002E2ED04 F C C C P C C H G S K F D M A G R V V L A G P P R A L P E I E L E L E G S I  
UniRef90\_UPI0004765436 L C C C P C C H G S T F D M A A R V V F K N P A P D N L E V P P H M Y L S E T K  
UniRef90\_I2JGK5 F C C C P C C H G S R F D L L A A G R V V Y K G P A S Q N L I V P P Y S F E G D N V  
UniRef90\_N2JCY2 F C C C P C C H G S R Y D L L A A G R V V Y K A P A P L N L V V P P Y A Y S E H I  
UniRef90\_A0A011PQV8 L C C C P C C H G S T F D F A G R V V F K S P A P D N L E V P P H M Y L S D  
UniRef90\_B8HNR1 I C C C P C C H G S Q Y D N T D G K V V R G P A P L S L A L A H A A V S D D K I T  
UniRef90\_A4RS90 K C C C P C C H G S Q Y N A D T G K V I R G P A P L S L A L A H V V V T D S D V V T  
UniRef90\_B2UEZ9 F C C C P C C H G S K F D L L A A G R V V L N V P A P L N L E I P P Q Y L D N T  
UniRef90\_A1K4U7 L C C C P C C H G S T F D L L A A G R V V F L G P A P T N L E V P P H A W L S D T  
UniRef90\_B2UDT7 L C C C P C C H G S T F D L L A A G R V V F K N P A P Q N L D V P P Y M F L S D T K L V  
UniRef90\_K0DQX9 L C C C P C C H G S T Y D M A G R V V F K N P A P Q N L D I P P Y M F T S A N G L V  
UniRef90\_G9QP51 F C C C P C C H G G L Y H K N G K N V P G P P T K P L D V Y P V K V K D G Y I  
UniRef90\_L2F6Z1 F C C C P C C H G S K Y D L A A G R V V F S M P A P R N L P I P E Y N L S G T I  
UniRef90\_A3JUZ4 F C C C P C C H G S H Y D T S G R I R K G P A P R N L P V P V A E V D A D T I K L  
UniRef90\_K2KBY4 F C C C P C C H G S T Y D L A A G R V V F F G P A P L N L V V P P H Y Y V D D N T  
UniRef90\_D0I4Z2 F C C C P C C H G S K F D M A G R V V F F K S P A P L N L V V P P Y T Y  
UniRef90\_Q0K6A5 L C C C P C C H G S T F D L L A A G R V V F K N P A P Q N L D V P P Y Q F L T D S K  
UniRef90\_R4VLY6 F C C C P C C H G S K F D L L A A G R V V Y A G P A P T N L V V P P H R V A E N G L  
UniRef90\_Q0FQA1 F C C C P C C H G S K Y D T A G R I R K G P A P Q N L V V P P T A E F V I E E T  
UniRef90\_A9XNS4 I C C C P C C H G S Q Y N N Q G R V V R G P A P L S L A L A H A D V D D G K V V  
UniRef90\_A2SCN7 L C C C P C C H F S R F D M A C Q S G G R V L A G P A P R S L P H L P I A L E R G E L  
UniRef90\_A6FEX7 F C C C P C C H G S K F D M A G R V V L A G P A P L N L V I P P H Y Y I D K T  
UniRef90\_F0RP18 F C C C P C C H G S Q Y D P K Q G G I V V G G P P P H K L A Q L P I V A D G D N I K V  
UniRef90\_W4HGP5 F C C C P C C H G S H Y D T A G R I R R G P A P Q N L P V P P V A A F D G E T  
UniRef90\_A0YES1 F C C C P C C H G S M F D L L A A S G R V V Y S G P A S D N L V V P P Y S F E S D V V  
UniRef90\_U1MDQ9 K C C C P C C H G A Y F D A S G R I R K G P A P L N L R I P P Y T L D G N T I V I  
UniRef90\_J2I1J8 F C C C P C C H G S R F D M A G R V V F Q G P A P T N L P P Y M F I D D N T  
UniRef90\_A5DC66 F C C C P C C H G S H Y D I S G R I R R G P A P L N L E I P P E Y D F T D D E T  
UniRef90\_B5I8S2 E C C C P C C H G S R F A T D D G K V I Q G P A T K P L E Q R D I E Y D F T D D E T  
UniRef90\_UPI0004797A4E F C C C P C C H F G R F E R D G T N V A G T P P T R P L D E Y E V D V R D D G M L  
UniRef90\_A5DZ68 F C C C P C C H G S H Y D I S G R I R K G P A P L N L E I P P Q Y D F T D D S T  
UniRef90\_UPI00036E3456 F C C C P C C H G S K F D M A G R V V Y K G P A P T N L I V P P H H Y I E N T I  
UniRef90\_UPI000414C6B1 F C C C P C C H K S R F D M A G R V V F Q G P A P T N L L V P P H H Y E N D T T  
UniRef90\_P70758 Q C C C P C C H G S R Y A P D G S V V R G P A P L P L K I V Q V A V I D N S I L  
UniRef90\_I1DXS7 F C C C P C C H G S K F D M A T G R V V F Q S P A P S N L M V P P Y M Y I D D N  
UniRef90\_UPI00035D60C9 F C C C P C C H G S H Y D T S G R I R K G P A P K N L E I P P  
UniRef90\_D8FZ15 Q C C C P C C H G S R Y S P D G S V V R G P A P L P L K L V R V T V E N N T I F M  
UniRef90\_Q93SW6 F C C C P C C H G S R Y D A Q D G S V E R G P A N R P L K L V H V Q V K D D Y I  
UniRef90\_Y0KEF3 V C C C P C C H G S K F D L L A A S G R V V F K G P A P T N L V V P P H Q Y L T D T T  
UniRef90\_UPI0003B37CA5 F C C C P C C H G S H Y D T S G R I R K G P A P R N L D V P P T Y E F A D D T T  
UniRef90\_L8GC67 F C C C P C C H G S H Y D I S G R I R K G P A P L N L E I P P E Y D F A D E T N L V  
UniRef90\_UPI0002FDB785 F C C C P C C H G S K F D M A G R V V F Q S P A P L N L V V P P H Y V Y L D D N R  
UniRef90\_A0A016XK63 L C C C P C C H G S T F D M A G R V V F K N P A P D N L E V P P H M Y L S D S K L  
UniRef90\_UPI0002FCA1E7 L C C C P C C H G S T F D L L A A G R V V F K N P A P D N L Q V P R H M Y V G D T K L V  
UniRef90\_G8ZPX0 F C C C P C C H G S H Y D I L A A S G R I R K G P A P L N L P Q Y E F E D G E S K L I  
UniRef90\_S4XXS7 Q C C C P C C H E G Y F D L L A T S G Q N I L A G P P R P L P R I E L E I V G G E V  
UniRef90\_F7ZLP3 F C C C P C C H G S H Y D V A G R I R K G P A P R N L D I P V A S V D E T T I Q L  
UniRef90\_R1ENL0 I C C C P C C H G S Q Y D F N G K V V R G P A P L S L A L A H V N D V D G K V V  
UniRef90\_E1X2U4 K C C C P C C H G S G Y Y M S G T N F E G P A P R P L E R Y K I S L T A K G T I L  
UniRef90\_H5SFT7 K C C C P C C H G S G F M K D G T N F E G P A P R P L E R Y R I V L A D D G Q I  
UniRef90\_D0J026 L C C C P C C H G S T F D M A G R V V F K N P A P D N L Q V P P H M Y L S D T K L  
UniRef90\_F7QJH9 F C C C P C C H G S Q Y D S S G R I R Q G P A P L N L A V P P Y A F V S D T  
UniRef90\_UPI00046396B9 F C C C P C C H G S H Y D T A G R I R T G P A P T N L P V P V F E F I S E T  
UniRef90\_W6VY22 Y C C C P C C H G S V Y D T A G R I R K G P A P E N L A I P T Y F S F K S D T V  
UniRef90\_H3A401 Y C C C P C C H G S H Y D A S G R I R K G P A P Y N L E V P T Y F E H S D D L  
UniRef90\_UPI0002E47DD5 F C C C P C C H G S K F D L L A A G R V V F K N P A P L N L V V P P E Y N Y L S D T  
UniRef90\_K6H1V6 F C C C P C C H G S M F D L V G R V V F K G P A P T N L K V P P H Y F D G N I  
UniRef90\_UPI0004695EE1 F C C C P C C H G S H Y D T A G R I R K G P A P L N L P I P P A E L D E S T L Q L  
UniRef90\_UPI00041D61C2 Y C C C P C C H F G R F E K D G T N V P N T P P T R P L D V Y E M E I R D G D L  
UniRef90\_UPI00046A9B4F F C C C P C C H G S H Y D T A G R I R K G P A P T N L P V P V A E V D E T T I K L  
UniRef90\_M2TPF0 F C C C P C C H G S H Y D S A G R I R K G P A P K N L V L P D Y E F T S K T  
UniRef90\_C4R0S5 F C C C P C C H G S H Y D I L A A S G R I R R G P A P L N L E I P P E Y D F A D P D T  
UniRef90\_CON8W2 F C C C P C C H G S K Y D L L A A G R V V Y E N P A P K N L V V P P N H Y F E G D N V  
UniRef90\_K1ZZZ9 Y C C C P C C H G S K Y D L L A A G R V V F R D P A P L N L K I P P H M Y V S D T E I L  
UniRef90\_F0W758 F C C C P C C H G S H Y D L L A A S G R I R K G P A P L N L E I P P Y Q F L E D N K I L  
UniRef90\_D6TR61 V C C C P C C H G A S Y D P A K A Q A E V V R P A P R R P L A S I P I H I D S A T G E L  
UniRef90\_UPI000472136A S C C C P C C H G S Q F D A A G R V V Y K E A P A P Y N L P V P V T  
UniRef90\_G3GWW7 Y C C C P C C H G S H Y D A S G R I R R G P A P L N L E V P T Y E F T S D D V

	170	180	190	200
UniRef90_D5VD62	L T V G			
UniRef90_K0I6M1	V V I G I D E			
UniRef90_S3DKY7				
UniRef90_K7SLX2				
UniRef90_Q21U78				
UniRef90_MOCIV3	V A T G F E G P V G P G G E			
UniRef90_A3PB15	V K Q W S E T D F R T N E N P W			
UniRef90_A1U3H6	I T I G L D P			
UniRef90_M5DN30	L V I G V D E			
UniRef90_UPI0003765489	I R V G V D			
UniRef90_UPI0003793BC1	Y A V G M K P I E G H E G V			
UniRef90_B7RTL5	L V I G V D			
UniRef90_N6W9C9	L T V G L D P			
UniRef90_B5JRP1	I L I G E D G			
UniRef90_UPI00036EC4A7				
UniRef90_F3LC15	V V I G K D G			
UniRef90_C6HY64	I V I G V N T V I R L D P D P V Q T P Q G L W V K E P F Y E H S A P A G A S C A			
UniRef90_W9TX57	V G V D E			
UniRef90_P95521	M T P W T E T D F R T G D A P W			
UniRef90_UPI000365EF0C				
UniRef90_B5Y3C8	G L W S E V D F R T G E P G W			
UniRef90_F3L1M3	L V I G I D			
UniRef90_A4YUT2	A A P F I G K V G G			
UniRef90_M8D5C0	Y A I G V K P			
UniRef90_UPI0002E2ED04	I M I G V D			
UniRef90_UPI0004765436	I			
UniRef90_I2JGK5	L V I G I D			
UniRef90_N2JCY2	I V I G M			
UniRef90_A0A011PQV8				
UniRef90_B8HNR1	F T P W T E T D F R T G K E P W			
UniRef90_A4RS90	F T P W T E A D F R T G Q N P			
UniRef90_B2UEZ9				
UniRef90_A1K4U7				
UniRef90_B2UDT7	I			
UniRef90_K0DQX9	I			
UniRef90_G9QP51	Y			
UniRef90_L2F6Z1	L T V G V			
UniRef90_A3JUZ4				
UniRef90_K2KBY4	I L V G E D			
UniRef90_D0I4Z2				
UniRef90_Q0K6A5	I V I G K D E			
UniRef90_R4VLY6	L V V G E D			
UniRef90_Q0FQA1				
UniRef90_A9XNS4	F V P W V E			
UniRef90_A2SCN7	A V N G P F			
UniRef90_A6FEX7	I L I G V D			
UniRef90_F0RP18				
UniRef90_W4HGP5				
UniRef90_A0YES1	I V I G V D			
UniRef90_U1MDQ9	G T K G T			
UniRef90_J2IIJ8				
UniRef90_A5DC66	L L V G			
UniRef90_B5I8S2				
UniRef90_UPI0004797A4E	Y			
UniRef90_A5DZ68	L M V G			
UniRef90_UPI00036E3456	L V I G			
UniRef90_UPI000414C6B1	I V I G V D P T N G K G			
UniRef90_P70758	I S P W T E T D P R T G K K P W			
UniRef90_I1DXS7				
UniRef90_UPI00035D60C9				
UniRef90_D8FZ15	A P W T E I D P R T G N A P W			
UniRef90_Q93SW6	W S S W Q E T D P R T G E K P W			
UniRef90_Y0KEF3	L L I G V D			
UniRef90_UPI0003B37CA5	I V I G			
UniRef90_L8GC67	I			
UniRef90_UPI0002FDB785	I L V G A D E			
UniRef90_A0A016XK63	I			
UniRef90_UPI0002FCA1E7	I			
UniRef90_G8ZPX0	V			
UniRef90_S4XXS7	F A I G V			
UniRef90_F7ZLP3				
UniRef90_R1ENL0	L S P W T E T D F R T D L A P W			
UniRef90_E1X2U4	V			
UniRef90_H5SFT7	L V			
UniRef90_D0J026	I			
UniRef90_F7QJH9				
UniRef90_UPI00046396B9				
UniRef90_W6VYZ2	I Q I G			
UniRef90_H3A401	L V V G			
UniRef90_UPI0002E47DD5				
UniRef90_K6H1V6	L T I G E E			
UniRef90_UPI0004695EE1				
UniRef90_UPI00041D61C2	Y			
UniRef90_UPI00046A9B4F				
UniRef90_M2TPF0				
UniRef90_C4R0S5	L V V G			
UniRef90_CON8W2	V V I G N D			
UniRef90_K1ZZZ9	I			
UniRef90_F0W758				
UniRef90_D6TR61				
UniRef90_UPI000472136A				
UniRef90_G3GWW7	V V V G			

UniRef90\_D5VD62  
UniRef90\_K0I6M1  
UniRef90\_S3DKY7  
UniRef90\_K7SLX2  
UniRef90\_Q21U78  
UniRef90\_M0CIV3  
UniRef90\_A3PB15  
UniRef90\_A1U3H6  
UniRef90\_M5DN30  
UniRef90\_UPI0003765489  
UniRef90\_UPI0003793BC1  
UniRef90\_B7RTL5  
UniRef90\_N6W9C9  
UniRef90\_B5JRP1  
UniRef90\_UPI00036EC4A7  
UniRef90\_F3LC15  
UniRef90\_C6HY64  
UniRef90\_W9TX57  
UniRef90\_P95521  
UniRef90\_UPI000365EF0C  
UniRef90\_B5Y3C8  
UniRef90\_F3L1M3  
UniRef90\_A4YUT2  
UniRef90\_M8D5C0  
UniRef90\_UPI0002E2ED04  
UniRef90\_UPI0004765436  
UniRef90\_I2JGK5  
UniRef90\_N2JCY2  
UniRef90\_A0A011PQV8  
UniRef90\_B8HNR1  
UniRef90\_A4RS90  
UniRef90\_B2UEZ9  
UniRef90\_A1K4U7  
UniRef90\_B2UDT7  
UniRef90\_K0DQX9  
UniRef90\_G9QP51  
UniRef90\_L2F6Z1  
UniRef90\_A3JUJ4  
UniRef90\_K2KBY4  
UniRef90\_D0I4Z2  
UniRef90\_Q0K6A5  
UniRef90\_R4VLY6  
UniRef90\_Q0FQA1  
UniRef90\_A9XNS4  
UniRef90\_A2SCN7  
UniRef90\_A6FEX7  
UniRef90\_F0RP18  
UniRef90\_W4HGP5  
UniRef90\_A0YES1  
UniRef90\_U1MDQ9  
UniRef90\_J2IIJ8  
UniRef90\_A5DC66  
UniRef90\_B5I8S2  
UniRef90\_UPI0004797A4E  
UniRef90\_A5DZ68  
UniRef90\_UPI00036E3456  
UniRef90\_UPI000414C6B1  
UniRef90\_P70758  
UniRef90\_I1DXS7  
UniRef90\_UPI00035D60C9  
UniRef90\_D8FZ15  
UniRef90\_Q93SW6  
UniRef90\_Y0KEF3  
UniRef90\_UPI0003B37CA5  
UniRef90\_L8GC67  
UniRef90\_UPI0002FDB785  
UniRef90\_A0A016XK63  
UniRef90\_UPI0002FCA1E7  
UniRef90\_G8ZPX0  
UniRef90\_S4XXS7  
UniRef90\_F7ZLP3  
UniRef90\_R1ENL0  
UniRef90\_E1X2U4  
UniRef90\_H5SFT7  
UniRef90\_D0J026  
UniRef90\_F7QJH9  
UniRef90\_UPI00046396B9  
UniRef90\_W6VYZ2  
UniRef90\_H3A401  
UniRef90\_UPI0002E47DD5  
UniRef90\_K6H1V6  
UniRef90\_UPI0004695EE1  
UniRef90\_UPI00041D61C2  
UniRef90\_UPI00046A9B4F  
UniRef90\_M2TPF0  
UniRef90\_C4R0S5  
UniRef90\_CON8W2  
UniRef90\_K1ZZZ9  
UniRef90\_F0W758  
UniRef90\_D6TR61  
UniRef90\_UPI000472136A  
UniRef90\_G3GWW7

S

1 10 20 30 40

UniRef90\_UPI00047927E1 WR G K  
UniRef90\_UPI000366E0E5 L V V I Q W Q G K  
UniRef90\_B3CME0 V N L S D I G Q G K K V K W Q G K  
UniRef90\_B6AUC7 V D I S G I E P G T Q L T V K W L G K  
UniRef90\_UPI0003683478 V D V S D L A P G G Q K T V L W Q S F P V S I Q R R T  
UniRef90\_I0G3E8 D I P R G G P P V H A W P K D P S  
UniRef90\_K4ZIW6 A D P D V K T F F A Q N A D V  
UniRef90\_D5ANZ2 WR G K  
UniRef90\_V4HWX3 V D I S K L E P G Q E W R G K P V W V I Y R T  
UniRef90\_C1BSB1 L A L A K I E I K I S D I P N M I F K W R G K  
UniRef90\_G4N4E1 L V N M S A S A D V L A M A K V E V D L T T I P W R G K  
UniRef90\_A9H0G5 V D V S K L P P G Q Q I T V V W H G S P V F I T H R T  
UniRef90\_UPI000478BCED S A L Y V Y V F V P P Q E  
UniRef90\_W7IFK6 L V N M S A S A D V L A M A K V E V A L N S I P W R G K  
UniRef90\_UPI0003663771 WR G K  
UniRef90\_U4UVW2 G K  
UniRef90\_W8SIL8 V N L A A I E P G Q A I K A S F R K Q P L F V R N L T P K  
UniRef90\_D8PBQ3 D K  
UniRef90\_W9H4K0 T L A L A Q I D I D L T P V Q V G Q S I T V T W R G K  
UniRef90\_S8E8U4 L A L A S L E D L S S I E P G S T V T V K W R G K  
UniRef90\_T1PKU2 I K L A D I P E G K S V T F K W R G K  
UniRef90\_L0P896 W R G K  
UniRef90\_UPI000364CCF2 L A Q A K V E I A L N S I P E G K N V I K W R G K  
UniRef90\_C5FM53 W R G Q  
UniRef90\_UPI00039A9F2C A E G D K A G Q V I K S D D L T P P I R A W P Q D P  
UniRef90\_U1IHT2 G L S G G T A A A L A L T G E L G R P E P W A G R F T P H R L S L K S T  
UniRef90\_K0JWU4 W R G K  
UniRef90\_K0SJ93 V D I T H L A P G Q Q M V A V W Q G K  
UniRef90\_UPI00046E748A V D I S R L Q P G D M L T A A W R G K  
UniRef90\_W6X5B3 I D V D L S P I P E G Q A I T V V W R G K  
UniRef90\_K2DV42 V N L D D I P V G K N V T F K W R G K  
UniRef90\_A9UXZ8 W R G K  
UniRef90\_L8HIC2 V A L A S I E V D L N E I P E G Q T K T Y E W R G K  
UniRef90\_W2TG87  
UniRef90\_Q67JM2 V D V S K I A E G Q S I T L K W R G K  
UniRef90\_G5ZZF7 V F K W R G K  
UniRef90\_A0A026WKI3 K N F V T Q F I Y S L S A A A D V I A V S K V E I K L L D I P L Q G K  
UniRef90\_UPI0003C2B14C V D V S S L T P G M S L T V K W R G K  
UniRef90\_UPI00030F0EB0 V D I S K L R A G Q R I S V V W R G K  
UniRef90\_UPI000371414A M Q V V I K W R G K  
UniRef90\_V4QE69 G K  
UniRef90\_A0A059F115 D I S Q I A P G Q A I K A V F R K Q  
UniRef90\_UPI0003B721F6 V D V G D L A P G Q M R T V E W R G K  
UniRef90\_F4L9A8 R H E  
UniRef90\_B9XJX5 D P T R S K W K L S D A A R F V K T N A D V A K  
UniRef90\_UPI000401CFAC W Q G K  
UniRef90\_A3V2L1 V D L S G M Q R G Q K W Q G K P V F V W R A Q E  
UniRef90\_A0A059IR75 G A T K F V N V F I S N L S P S R D V L A M A K I E V K L S D I P W R G K  
UniRef90\_Q6VBC4 V Q T M V S F K A M A L A S I E V N M N D I P E G Q T K T F E W R G K  
UniRef90\_W2TBW1 V D I S A V E P G T Q L T V S F L G K  
UniRef90\_RODTH0 V D I S P V Q T G Q A I T V L W R G M  
UniRef90\_E3I0M2 W R G K  
UniRef90\_M7NVZ5 G K  
UniRef90\_A0A059F5Y9 L A L A K V E V D M N S I P E G K N A I I K W R G K  
UniRef90\_UPI0002558961 L A L A S L E D L S N I E P G N T V T V K W R G K  
UniRef90\_W3VR21 P W T S V Y Y P S R I R P Q A S A  
UniRef90\_M0SG26  
UniRef90\_UPI00044168DE  
UniRef90\_A6TX15  
UniRef90\_A6GGF9  
UniRef90\_I4EIZ6  
UniRef90\_E6TZH7  
UniRef90\_N1QDR3 W R G K  
UniRef90\_A8TWZ4 W R G K  
UniRef90\_UPI000368D47F W R G K  
UniRef90\_B8GMK9 W R G R  
UniRef90\_G3PJ66 V K L G D I P E G K N M T F K W R G K  
UniRef90\_B1Y4A5  
UniRef90\_Q1AS46  
UniRef90\_Q0FDH6 V D V S D V E P G T Q I T V K W L G K  
UniRef90\_UPI0003B58B2B R A R L V G K P F Q A G K L A A W N A E T  
UniRef90\_I4X4X1 L V N M S A S A D V L A Q A K V E I A L S A I P W R G K  
UniRef90\_A6QU87 W R G Q  
UniRef90\_F8EUK4 W R G G  
UniRef90\_Q0ARQ8 W R G K  
UniRef90\_UPI0003B4D850 W R G K  
UniRef90\_S8FT46 W R G K  
UniRef90\_D5BNZ6 V D I S K I A E G Q S I T V K W R G K  
UniRef90\_D1A1S0 P R A E  
UniRef90\_UPI000225E2A7 V D V S A I Q P G I K A V F R K Q P L F V R R L T  
UniRef90\_A5V644 L A L A S I E V D I S A I K E G Q A I K T I F R K Q  
UniRef90\_UPI0001851034  
UniRef90\_F4Y0S1 P D Q S P  
UniRef90\_B5XAY2 W R G K  
UniRef90\_V7C495 P G D F L V S V D D A R P L T V A D I E P H V F A W P H W R G K  
UniRef90\_H5WT65 V D L S A I Q P G I K T T F R S Q P L F V R H L T D K  
UniRef90\_D4Z5K5  
UniRef90\_UPI0003648FA5 F P M V R F A V D P M L K K G E A G N F L D V G L K V D E I T D T  
UniRef90\_UPI0003B7B287  
UniRef90\_UPI00037646F9

UniRef90\_UPI00047927E1 P V V W V V N R P Q A V L D N L E K L A D P D S S E P Q Q P Y T V N T H R S I 80  
UniRef90\_UPI000366E0E5 P V F V V N R T T E E Y L K Q V D D S K A I E A V S A E W L T A E N N K Y R A I K  
UniRef90\_B3CME0 P V F I R R K R T K Q E E I T E A R A R A L R D D P E S N D E K R V Y K G D S E W L I M L G D  
UniRef90\_B6ACU7 P V F I R R R T E E E I T E A R A V L D D A R N T N L G D A D K A S D E N R A L D  
UniRef90\_UPI0003683478 P A M I A A L S A P E L T A Q L R D P N S S V L L Q Q P H D A V N A H R S L N  
UniRef90\_10G3E8 T S V L R N A S R L N E I M L T R L D P A E L D E Q T R A R A R D  
UniRef90\_K4ZIW6 A K H L K L E T V H N K P E D V N G E G A V V T V D G K R A G A Y R D  
UniRef90\_D5ANZ2 P V F I R R R D E K D I E L A R S V P L G A L R D T S A E N A N K P G A E A T D  
UniRef90\_V4HWX3 P K M L E S E Q M K Q H E D Q L R D P N S N E A Q Q L D S A K N S Y R S K R  
UniRef90\_C1BSB1 P V F V R H R T E E K N V D V A S L R D P E V D S E R C Q D S A K W L V V V G V  
UniRef90\_G4N4E1 P V F I R H R D E A N K I D V A S L R D P E A D S D R V K K P E W L V M L G V  
UniRef90\_A9H0G5 P E S L A R L Q E A A L A A R L R D P S S G A L L Q Q P P Y A A N W H R S I K  
UniRef90\_UPI000478BCED P I F I R R H R T E A N N V N V A S L R D P E T D E A R T K K P E W L V M V G V  
UniRef90\_W71FK6 P I F I R R N R T E E E I K T A A D L R D D H S A R N D M L P E T T P A L D A N R V  
UniRef90\_UPI0003663771 P I F I R R R R T E E E I A E L L A D L A D S A R N E N V P G D A S D E N R S L D  
UniRef90\_U4UVW2 P V F I R R R T E M A E A D A V P V S S L R D P Q T L E E R T K E G H K N W L I T L G  
UniRef90\_W8SIL8 N V V V L K A T P K V L E T V Y Q G K D M E F H D A A G K L T W T N K  
UniRef90\_D8PBQ3 P V F V R R R T E E A S V N L A E L R D P Q P D S A R V K D P Q W L V L V G V  
UniRef90\_W9H4K0 P V F I R R R R T E A N S V E V A S L R D P Q E D A A R V K D P E W L V V V G V  
UniRef90\_S8E8U4 P L F I R H R T A E R G V P T A T L R D P Q T D D Q R V Q K P E W L V V I G V  
UniRef90\_T1PKU2 P V F I R H R D E A R S V N I S S L R D P Q S D D D R T K R P E W L V M I G V  
UniRef90\_L0P896 P V F I R H R D E A R S E S V Q E I A A G A G A I V R D G A R K I L A V F R D  
UniRef90\_UPI000364CCF2 P V F I R H R T A S E I Q E A Q E L R D P S D S D R V K N P E W L V M L G V  
UniRef90\_C5FM53 P I W V V R R T D E M I E G L S R I L T D R S E V E E Q Q P Y A Q N E H R S I D  
UniRef90\_UPI00039A9F2C K T S V V R K G S R L N E V V L V K L D P S E L D D A T R A R A  
UniRef90\_U11HT2 P T L R R R L K P G E V G S A E E V P R D E T G R L V R R G L G K V G V F R D  
UniRef90\_K0JWU4 P V F I R R R T P E A G V A L S S L R D E E T D D D R T L K P E W L V V L G  
UniRef90\_K0SJ93 P V F I R R R T P Q N A E L S A Q L K D A N S T A N Q Q P S Y A R N W H R S L T  
UniRef90\_UPI00046E748A P V F I V N R T D A A E P L V A D P Q T T R P F S M P L P P Y C H A N N E F R S R P  
UniRef90\_W6X5B3 P I F V R H R T A A E I T P L S E L R D P E T D Q A R V K K G H A Q W L I V V G  
UniRef90\_K2DV42 P V F V R H R D R E A A V D V K S L R H P Q S D A E R A T K P E W L V V L G  
UniRef90\_A9UXZ8 P L F I R H R T D A E S A P L T D M R D P C H D A A R K K A D K P E W L I V L G  
UniRef90\_L8HIC2 P L F I R H R T D A E S A P L T D M R D P H A E H D A D Q R V K K D E W L V V L G V  
UniRef90\_W2TG87 P I F V K H R T K E K A V N V S E L V A P V K A H E M E I G D V V M V R E G T R  
UniRef90\_Q67JM2 P V F I R H R D E A K V A D A L D M R D P Q T D S D R V Q K P E Y L V V L G V  
UniRef90\_G5ZZF7 P L F V R H R T D E A S K V D V I T S L R D P Q E D S A R V K D P K W L V I M G  
UniRef90\_A0A026WKI3 P V F I R H R T E A N X V D I S T L R D P Q K D A D R V I K P E W L I M V G V  
UniRef90\_I2JWU8 P L F V R H R T R E G A V N L A E L R D P Q H D L E R V K K P E W L I L I G V  
UniRef90\_UPI0003C2B14C P V F I R N R T P E E I K P L A E L K D P V A R N A N V L S G D D I D R S A G D G  
UniRef90\_UPI00030F0EB0 P I W V Y R R S D E L P Q L N E R L S D P Q S K V P Q Q P P Y A Q N I T R S I R  
UniRef90\_UPI000371414A P L F V R E I K E A E D V K L S D L K D P Q T D A D R V K K G K E Q Y L I L V G  
UniRef90\_A0A059F115 P F F V R H R T E V E I A E A R A V N I S R L R D P E T D E E R L R P N Q D G G  
UniRef90\_UPI00040C9AF1 P V F I R R R T D A E I E A A R E V D T N A Q N R N D M S L K A T D Q N R T L D  
UniRef90\_UPI0003B721F6 P V F V R N L G E A D K V P L S L R D P Q T L E E R T K P G K T N W L I T M G  
UniRef90\_F4L9A8 P V W I R R R T D D Q V L K G I K S S M A D P N S E R P G F P A Y A K N E Y R S K  
UniRef90\_B9XJX5 P K V W R S V G K V D S F K I V R Y D D A S P E P W A G V T A R T A A W L R R E  
UniRef90\_UPI000401CFAC E F V K G K V K R A D K T V D D L G F D E G A I V N H N G D H V A A Y R D  
UniRef90\_A3V2L1 P V F I R A R T E E N A V D L S T L P D G L S Q N A N L D P A D A S D A N R S  
UniRef90\_A0A059IR75 A I D M A R A T P L D A L V D Q T D S A K E N P N H P Q T E P A L D Q N R T A D  
UniRef90\_Q6VBC4 P L F V R H R T E N K V D A T S L R D P Q T D E E R V K D P K F L I V I G V  
UniRef90\_W2TBW1 P V F V K H R T K E K A V N V S E L R H A E H D D E R V Q K D E W S I V I G V  
UniRef90\_R0DTH0 P V F I R H R T D A E S E D V S S L R D T V A R N P N G D V L A T D A N R A V A  
UniRef90\_E3IOM2 P I F V R N L G K A K A V D V A D L K D P V A R L L G S T A E I P A S A A N I G  
UniRef90\_M7NVZ5 P V F I R H R T L A E I E I S S L R D P Q T D E R T K K P E W L V M I G V  
UniRef90\_A0A059F5Y9 P F F V R H R T P A E I A M A E S V N V A S L R D P Q T D D E R L H P M Q N G E  
UniRef90\_UPI0002558961 P V F I R R R D A A N E V D P A S L R D P L A R N G N I D A G A P D P N R A L A  
UniRef90\_W3VR21 P V F I R H R D E A N A V D I S K L R D P E K D S D R A K R P E W L V M L G V  
UniRef90\_M0SG26 P V F I R R R T E S D I K D V S S L R D P Q E D S A R V K N P E W L I V V G V  
UniRef90\_UPI00044168DE P V F I R H R T E A R S V D W K S L R D P Q S D E A R V K N P E W L V M L G V  
UniRef90\_A6TX15 T E F I V Q N V D V A T R F I S G K L I P N S K D M N L Q P G Q K V L Q I K G  
UniRef90\_A6GGF9 L V G Q R S E F G P E P V K V D I Y A D R V D A W N K T R N V K I G S V E  
UniRef90\_I4EIZ6 K F G S T V T I P Q D Q V P A P A D A P Y I D R E G K Y L I N  
UniRef90\_E6TZH7 D E L T E E P Q R F D F K V E V I E D A W Y T S E Q S R T A W I Y  
UniRef90\_N1QDR3 P V F I R H R T A D E I K D W K T L R D P Q P D S D R V K K P E W L I M L G V  
UniRef90\_A8TWZ4 P V F V R H R T P D E I E K A R A V P L A D L P D P A A D A T R A L K  
UniRef90\_UPI000368D47F P V F I W N R T K A Q V E L S Q L P D K S A R N E N L P S D A T P N R A K  
UniRef90\_B8GMK9 P V W I V R R T D A L P T L N P R L R D P E S E L E Q Q P S Y A R N I H R S I K  
UniRef90\_G3PJ66 P L F V R H R T E E E A V N I A E L R D P Q H D R E R V L N S K W L I V L G V  
UniRef90\_B1Y4A5 P V W V V R R T P A M L A A L A E L V D P Q S A R R Q Q P A Y A A N P A R A I H  
UniRef90\_Q1AS46 P V L R E S E L P A G G M R V I S A D G A E V L L A R S  
UniRef90\_Q0FDH6 P V F I R R R K A R A V P L A D L P D V D A R N A N T E T Y A E D S N R S L D  
UniRef90\_UPI000358B2B G A F L V R L R P T K R G V D A L E P G E G K L V R E G L K R T A A F R D  
UniRef90\_I4X4X1 L T D Q A V A D I T E E P V R V D F T F E Q T D A W Y V I S E A W V Y  
UniRef90\_A6QU87 P V F I R H R T P A E N A S K W E S L R D P Q P D S D R V Q K P E W L V M L G V  
UniRef90\_F8EUK4 P V F I R H L T K A N A V S L S L R D P E T L S Q R T K P G K S N W L V T M  
UniRef90\_Q0ARQ8 P V F I R H R T E E E A V E L D A L P D E D A R N D N L P A G V P G T D A N R V  
UniRef90\_UPI0003B4D850 P V W I F K R N A E A Q L K V L P R L R D P K S D N A D Q P A F A K N E A R A I K  
UniRef90\_S8FT46 P V F I R H R T E A R Q T V W K T L R D P Q R D E D R T K K P E W L V M L G V  
UniRef90\_D5BNZ6 P V F V R H R T A D E I A R A E T A N G D D L R D P Q P D D A R V Q R P  
UniRef90\_D1A1S0 P A A E L K G K E I A K V A D V P V I G G G K V L P Q Y K I V V T Q P  
UniRef90\_UPI000225E2A7 P A E M E A D A V P L S A L R D P Q T L A E R T K D G H H D L L V T M G  
UniRef90\_A5V644 P L F V R H L T A A D K V D P S T L R D P Q T L E Q R T V D G K K Q W L I T M G  
UniRef90\_UPI0001851034 K V D E L T A E P V V D F K Y E Q K D A W Y T S E V T Q T A W V Y K D  
UniRef90\_F4Y0S1 P K A T E K K S P N I D K S V R E D G F Q A V G T V Y E D K L A D I L V V R N L  
UniRef90\_B5XAY2 P L F I R H R S E E A V D M A E L R D P Q H D K D R V A N P K W I V I G V  
UniRef90\_V7C495 P V F I R R R T E D D I K L A N S V D V L S L R D P Q Q D A D R V K  
UniRef90\_H5WT65 P S A K R N R D A S R L N R V L L L R L D P A E L D A E T R E R S  
UniRef90\_D4Z5K5 E I A E A D K V D P A S L R D P Q T L E E R T V D G K K Q W L V T M G  
UniRef90\_UPI0003648FA5 P L F V L K V S E L T G K P V I D F K Y E Q A D G W H K S D I T Q T A W V Y K D  
UniRef90\_UPI0003B7B287 P I F V I H R K D G W Y E P P K G E T M T A W V L K  
UniRef90\_UPI00037646F9 K M T D K K V A D I T D E P V R V D F S Y E Q K D G W Y T A W V Y K D

UniRef90\_UPI00047927E1 P Q L F V G V G L C T H L G C S P T Y L P G S F A E Q V Q G V E Y G F  
UniRef90\_UPI000366E0E5 P E Y L I V V A S C T H L G C I P L F K P T A G R K D W G D S V P E N G G W  
UniRef90\_B3CME0 I C T H L G C V P V D H A T K D G N G W  
UniRef90\_B6AUC7 E T G E W L V M M G V C T H L G C V P L G D G A G D Y H G W  
UniRef90\_UPI0003683478 A D Y G V F I T I C T H L G C I P N L R D L P N L P A S G G F  
UniRef90\_I0G3E8 V D G I L A Y S A L C S H A G C P V T A W V K S D A G D K E R V F  
UniRef90\_K4ZIW6 E Q G T L H L V D T T C S H M G C E L E W N H G E R S W  
UniRef90\_D5ANZ2 E N R T L P A F D G V C T H L G C V P M G D K S G D F G G W  
UniRef90\_V4HWX3 E E I F V A V G I C T H L G C S P T F M N G G F G E K V E G T A D G F  
UniRef90\_C1BSB1 C T H L G C V P I A N A G E F G G Y  
UniRef90\_G4N4E1 C T H L G C V P I A N G E A G D F G G W  
UniRef90\_A9H0G5 P E F G V V V G I C T H L G C V P T Y S P A P D P A T P I A N W P G G Y  
UniRef90\_UPI000478BCED G E P T Y V G I V N D C T H L G C T F P W N P F D K Q F  
UniRef90\_W71FK6 C T H L G C V P I G E A G E Y G G W  
UniRef90\_UPI0003663771 K K G N W L I L I G I C T H L G C I P K G Q A M G D S K G D F G G W  
UniRef90\_U4UVW2 E A G E W L V M M G V C T H L G C V P L G D G A G D F N G W  
UniRef90\_W8SIL8 V C T H L G C V P L G A G E G E N R G P F G G Y  
UniRef90\_D8PBQ3 K D V P Y I A Y S G K C P H L G C G F K W R T H K T L G Q V F  
UniRef90\_W9H4K0 C T H L G C V P L G Q K P T D P K G D Y G G W  
UniRef90\_S8E8U4 C T H L G C I P L P N A G D F G G W  
UniRef90\_T1PKU2 C C T H L G C V P I A N S G D F G G Y  
UniRef90\_L0P896 C T H L G C V P I G E A G D Y R G W  
UniRef90\_UPI000364CCF2 E Q G E L R A L S A K C T H L G C V V H W N S A E R S W  
UniRef90\_C5FM53 C T H L G C V P I G E A G D F G G W  
UniRef90\_UPI00039A9F2C P E F L V V I G I C T H L G C S P T Y R P E I G D P E M G A A W Q G W  
UniRef90\_U11HT2 P D G I V C Y S V I C S H A G C P I T A W V K E N Q G D K N V L  
UniRef90\_K0JWU4 E Q G D L H V V S A R C T H L G C L V R F N S G A D A E R S W  
UniRef90\_K0SJ93 C T H L G C V P I S G A G D Y N G W  
UniRef90\_UPI00046E748A P E F G V Y V G I C T H L G C V P T Y T P P Q G S G P E A S G G Y  
UniRef90\_W6X5B3 E H S N L L V V V G V C T H L G C T P S P R F Q P G P Q T S L P D D W P G G F  
UniRef90\_K2DV42 V C T H L G C I P T G N K S T Q N R G K Y G G W  
UniRef90\_A9UXZ8 I C T H L G C V P I A N A G D F H G Y  
UniRef90\_L8HIC2 V C T H L G C V P L G G Q G E Y G G W  
UniRef90\_W2TG87 C S H L G C V P T V N A G D Y G G Y  
UniRef90\_Q67JM2 S E D G L M A L Y W K V H L G C T V P W N A A Q K K F  
UniRef90\_G5ZZF7 C T H L G C V P I G Q K V G E V R G E Y D G W  
UniRef90\_A0A026WKI3 I C T H L G C V P I A N A G D F G G Y  
UniRef90\_I2JWU8 C T H L G C V P I G N A G D Y D G W  
UniRef90\_UPI0003C2B14C C C T H L G C V P I A G A G E F G G Y  
UniRef90\_UPI00030F0EB0 K E N W L V M V G V C T H L G C V P L G Q G G F G G W  
UniRef90\_UPI000371414A P E I G V L I P I C T H L G C I P L Y R P E E G S V E A S W P G G F  
UniRef90\_V4QE69 S C T H L G C V P T F G A G D F G G W  
UniRef90\_A0A059F15 L N P A I L L I T S G V C T H L G C V P L G P N Q G N V G D Y G G W  
UniRef90\_UPI00040C9AF1 E A G E W L V M I G V C T H L G C V P I G N G S G D F G G W  
UniRef90\_UPI0003B721F6 V C T H L G C V P L G A G E G E V K G E F G G Y  
UniRef90\_F4L9A8 P E L F V C V G I C T H L G C S P T A H F E T G G G A G M P G N W Q G F  
UniRef90\_B9XJX5 S E N T F V A F S I N C T H L G C V P R W L P A A R L F  
UniRef90\_UPI000401CFAC P D G N V S L V G S N C T H M G C T V N W N N A E R S W  
UniRef90\_A3V2L1 E D G V W L V Q M G V C T H L G C V P L G E Q G D F G G W  
UniRef90\_A0A059IR75 E A G E W L I V I G I C T H L G C V P V G Q G S G D A L G E F G G W  
UniRef90\_Q6VBC4 C T H L G C V P I A N A G Q F G G Y  
UniRef90\_W2TBW1 C T H L G C V P I A N A G D F G G Y  
UniRef90\_R0DTH0 G N E N F L V M I G V C T H L G C V P L G D G A G D F G G W  
UniRef90\_E3I0M2 K E N W L I A V G I C T H L G C V P K G Q S P G D P R G P Y G G Y  
UniRef90\_M7NVZ5 C T H L G C V P I G E A G D Y H G W  
UniRef90\_A0A059F5Y9 L N R A I L L I T S G S C T H L G C C V P V G P A Q G N T G D F G G W  
UniRef90\_UPI0002558961 P E G E W L V M M G V C T H L G C V P L G D G A G D F G G W  
UniRef90\_W3VR21 C T H L G C V P I G E A G D F G G W  
UniRef90\_M0SG26 C T H L G C I P L P N A G D F G G W  
UniRef90\_UPI00044168DE C T H L G C V P I G E A G D Y G G W  
UniRef90\_A6TX15 E N G E I H V V D T T C T H L G C E L T W N D A E K S W  
UniRef90\_A6GGF9 R E G Q L V A F S T V C P H L G C A V D Y S P E D S K F  
UniRef90\_I4EIZ6 N K E G L L A L Y W K C P H L G C T V P W N A S A S E F  
UniRef90\_E6TZH7 K E G D V I A L S P V C T H L G C T V N W D T N E D H P N Q F  
UniRef90\_N1QDR3 C T H L G C V P I G E A G D Y G G W  
UniRef90\_A8TWZ4 P E Q L I V V L G V C T H L G C V P L G Q K P S D P R G D Y G G W  
UniRef90\_UPI000368D47F D K E N W L V V V G V C T H L G C I P L A N A G D F G G W  
UniRef90\_B8GMK9 P E I L V L I G V C T H L G C S P A Y R P E V A P D D L G P E W R G G F  
UniRef90\_G3PJ66 C T H L G C V P I A N A G D Y G G Y  
UniRef90\_B1Y4A5 P E V F V A I G I C T H L G C S P T E V P Q G T A N P S L P A D W P G G F  
UniRef90\_Q1AS46 S G G E I C A I S A V C G H L G G A L E E G R R E G D T V  
UniRef90\_Q0FDH6 E T G E W L V M M G V C T H L G C V P L G D A G D F G G W  
UniRef90\_UPI0003B58B2B E A G A L H R H S S V C T H L G C E V H F N P A E Q S W  
UniRef90\_I4X4X1 K E G D L I A L S P V C K H L G C T V N W A G D P E Q P T Q F  
UniRef90\_A6QU87 C T H L G C V P I G E A G E Y G G W  
UniRef90\_F8EUK4 A L C T H L G C I P L G G N V G E P R G E Y G G Y  
UniRef90\_Q0ARQ8 L R P E F L I V K G N C T H L G C V P L G L A A N T G D Y D G W  
UniRef90\_UPI0003B4D850 P E L A V I V G I C T H L G C S P G Y V P E M V P Q A Y D P E W K G G F  
UniRef90\_S8FT46 C T H L G C V P I G E A G D F G G W  
UniRef90\_D5BNZ6 E L L V V V G V C T H L G C V P L G Q K T G E V R G D Y D G W  
UniRef90\_D1A1S0 T E G T F K V F D A R C T H S G C P V D R I R Q G A M  
UniRef90\_UPI000225E2A7 V C T H L G C V P L G A A E G E N K G E F G G Y  
UniRef90\_A5V644 V C T H L G C V P L G A G E G E I R G E F G G Y  
UniRef90\_UPI0001851034 E K G E V I A L S P I C K H L G C T V N W N N E D H P N Q F  
UniRef90\_F4Y0S1 S N N S L V A V N P R C T H Q G C S V D W K Q E D K I F  
UniRef90\_B5XAY2 C T H L G C V P I A N A G D Y G G Y  
UniRef90\_V7C495 D P E W L I V V G V C T H L G C I P L P N A G D F G G W  
UniRef90\_H5WT65 A E G V L A Y S G V C T H Q G C P V S A W R A Q E K T L  
UniRef90\_D4Z5K5 V C T H L G C V P L G A G E G E N K G E Y G G Y  
UniRef90\_UPI0003648FA5 N K G E I V A L S P T C K H L G C T V D W N T S K Q H P N E F  
UniRef90\_UPI0003B7B287 E G N E I L A L S P V C K H L G C T V S Y N T N P Q F K N E F  
UniRef90\_UPI00037646F9 A K G E I V A L S P I C K H L G C T V N W E G S E D H P D M F

UniRef90\_UPI00047927E1 F C C P C C H G S K F D M A 130 G R V F S G P A Q L N L A V P P H Q Y L D D S T  
UniRef90\_UPI000366E0E5 H C C P C C H G S L Y D I S A R V I N G G P A P H N L H L M P Y K Y L T E T K V V  
UniRef90\_B3CME0 F C C P C C H G S Y Y D T S G R V I R K G G P A P T K N M A  
UniRef90\_B6ACU7 F C C P C C H G S Y Y D T S G R I R K G G P A P T N L P V P P V A V D D S T L K L  
UniRef90\_UPI0003683478 F C C P C C H G S Q F D T G A S G R V L R M P A P Y N L P V P P M H Y  
UniRef90\_10G3E8 K C C M C C H N S E Y D P R A S A G E V V F G P A P R R L A A L P I A L A D G S L  
UniRef90\_K4ZIW6 D C C P C C H G S R F S I S A D Q V M G G P A P K K P L  
UniRef90\_D5ANZ2 F C C P C C H G S H Y D S A G R I R K G G P A P R N L D I P V A V D E T T I K L  
UniRef90\_V4HWX3 F C C P C C H G S K F D M A S G R V F Q N G P A P L N L E V P P Y T F L D D T T  
UniRef90\_C1BSB1 Y C C P C C H G S H Y D A S G R I R K G G P A P L N L E V P T Y E F K E D I  
UniRef90\_G4N4E1 F C C P C C H G S H Y D I L A S G R I R K G G P A P L N L E I P A Y D F P E D D K L  
UniRef90\_A9H0G5 A C C P C C H G S K F D L A G R V E T G P A P Y N L P V P P  
UniRef90\_UPI000478BCED Q C C P C C H G S R F A A D G T V E R T G P A P N R P L K L V H V N V Q G D A I W L  
UniRef90\_W71FK6 F C C P C C H G S H Y D I S G R I R K G G P A P L N L E I P A Y D F P T D E T  
UniRef90\_UPI0003663771 F C C P C C H G S H Y D T S G R I R K G G P A P R N L E V P P Y E F V S D N  
UniRef90\_U4UVW2 F C C P C C H G S H Y D T S G R I R K G G P A P T N L P V P V A E V D A T T I K L  
UniRef90\_W8SIL8 F C C P C C H G S A Y D T A G R I R Q G G P A P T N L E V P V A E Y N F T S D T V  
UniRef90\_D8PBQ3 L C C P C C H L S I Y D A A T A G K V L D G G P A P R A L D P L P I K V T A T G D I  
UniRef90\_W9H4K0 F C C P C C H G S H Y D T A G R I R R G G P A P L N L L V P E Y A F L T D T S  
UniRef90\_S8E8U4 F C C P C C H G S H Y D I S G R I R K G G P A P Y N L E V P A H V F P D E G T L  
UniRef90\_T1PKU2 Y C C P C C H G S H Y D A S G R I R K G G P A P L N L E V P E Y D F L S D D K  
UniRef90\_L0P896 F C C P C C H G S H Y D I S G R I R K G G P A P L N L E V P A Y D F L T D D T  
UniRef90\_UPI000364CCF2 D C C P C C H A S R F G T D G A V L H G P A V S P L E E I A L N S E G K R D S  
UniRef90\_C5FM53 F C C P C C H G S H Y D I S G R I R K G G P A P L N L E V P A Y D F L T D D T  
UniRef90\_UPI00039A9F2C L C C G C C H G S R F D M A S G R V Y S N P A A T N L V I P P Y K Y L T D D V  
UniRef90\_U11HT2 K C C L C C H N S E Y D P R Q D A Q V V F G P A P R R L A A L P L T V A D G A I T V  
UniRef90\_K0JWU4 D C C P C C H G S R F G V I D G D V L E G P A T D P L E P T L D P D V  
UniRef90\_K0SJ93 F C C P C C H G S H Y D I S G R I R K G G P A P L N L E I P P Y K F T G D T K L  
UniRef90\_UPI00046E748A G C C P C C H G S K F D L A G R V Q K G P A P Y N L P V P P  
UniRef90\_W6X5B3 L C C P C C H G S T Y D L A G R V F K G P A P Q N L D V P R Y R F E S  
UniRef90\_K2DV42 H C C P C C H G S L Y D T S G R V R R G P A P L N F Y V P P Y V L T D T H  
UniRef90\_A9UXZ8 F C C P C C H G S H Y D A S G R I R K G G P A P E N L E I P E H S F E D N  
UniRef90\_L8HIC2 F C C P C C H G S H Y D T A G R I R K G G P A P L N L E V P P Y V F K D D S K  
UniRef90\_W2TG87 F C C P C C H G S H Y D T S G R I R R G G P A P L N L E V P P Y T F K D D H T  
UniRef90\_Q67JM2 M C C P C C H A S V Y E I T S G Q N I A G P A P R P L D M M E V I V E P D G T V L  
UniRef90\_G5ZZF7 F C C P C C H G S H Y D S S G R I R K G G P A P T N L E V P P Y A F L S D D V  
UniRef90\_A0A026WKI3 Y C C P C C H G S H Y D A S G R I R K G G P A P L N L E I P H Y K F A D D S  
UniRef90\_I2JWU8 F C C P C C H G S H Y D I L S G R I R K G G P A P L N L E L P Y Y E F T S D D L  
UniRef90\_UPI0003C2B14C Y C C P C C H G S H Y D T A G R I R K G G P A P L N L E L P Y Y E F T S D D L  
UniRef90\_UPI00030F0EB0 F C C P C C H G S H Y D T A G R I R K G G P A P E N M A  
UniRef90\_UPI000371414A F C C P C C H G S K Y D L A G R V Y S G P A P L N L Q V P P Y W Y P A E N K L I  
UniRef90\_V4QE69 F C C P C C H G S H Y D T S G R I R K G G P A P L N L A V P P E Y T Y L S D T  
UniRef90\_A0A059F15 Y C C P C C H G S H Y D T S G R I R K G G P A P L N L P V P E Y I Y Q N G N I  
UniRef90\_UPI00040C9AF1 F C C P C C H G S H Y D T A G R I R K G G P A P E N L W I P V A E V D E S T I K L I  
UniRef90\_UPI0003B721F6 F C C P C C H G S V Y D T A A R I R K G G P A P K N L E V P V Y E F T S D T V  
UniRef90\_F4L9A8 L C C P C C H G S T F D M A G R V Y K D K P A P D N L E V P P Y Q Y L S D T R I I  
UniRef90\_B9XJX5 M C C P C C H G G V F Y E N G D V A A G P P E R P L T R Y P V R V  
UniRef90\_UPI000401CFAC D C C P C C H G S R F K P N G E V T E G P A V K S L P P  
UniRef90\_A3V2L1 F C C P C C H G S H Y D T A G R I R R G G P A P R N L D I P V A S V D D T T I Q L  
UniRef90\_A0A059IR75 F C C P C C H G S H Y D T S G R I R K G G P A P R N L D I P R Y T L A D D  
UniRef90\_Q6VBC4 Y C C P C C H G S H Y D A S G R I R K G G P A P L N L E V P P E Y E F P E E G M V I  
UniRef90\_W2TBW1 F C C P C C H G S H Y D G S G R I R K G G P A P L N L P A Y N F K D N I  
UniRef90\_R0DTH0 F C C P C C H G S H Y D T A G R I R K G G P A P E N L H I P T M S V S E D  
UniRef90\_E3IOM2 F C V C C H G S I Y D T L G R V R G G P A P R N L D L P P Y E F T G E  
UniRef90\_M7NVZ5 F C C P C C H G S H Y D I S G R I R K G G P A P L N L P E Y N F V D E D K L V I  
UniRef90\_A0A059F5Y9 Y C C P C C H G S H Y D T S G R I R K G G P A P R N L P V P N Y R Y V S D T  
UniRef90\_UPI0002558961 F C C P C C H G S H Y D T A G R I R K G G P A P Q N L P V P V A A F D G E T  
UniRef90\_W3VR21 Y C C P C C H G S H Y D I S G R A R K G P A P L N L E V P P E Y D F N D A E N K L  
UniRef90\_M0SG26 F C C P C C H G S H Y D I V I S G R I R K G G P A P F N L E V P T Y T F L D E N K L L  
UniRef90\_UPI00044168DE F C C P C C H G S H Y D I S G R A R K G P A P L N L E V P P E Y S F N D A E G K L  
UniRef90\_A6TX15 D C C P C C H G S R F S Y T G D I E G P A L K P L Q K L Q  
UniRef90\_A6GGF9 K C C P C C H R S A F G L D G A P E E G P A P R S L D A L E L S N D E D G G G L  
UniRef90\_I4EIZ6 H C C P C C H G S V Y D R H G V R T A G P A P R P M D L M E V E V D G S G N V K  
UniRef90\_E6TZH7 F C C P C C H L G R F E K S G Q N V A N T P T R P L D L Y D T K L E D G N V  
UniRef90\_N1QDR3 F C C P C C H G S H Y D I S G R V R R G P A P L N L E V P A Y D F P E D N A  
UniRef90\_A8TWZ4 F C C P C C H G S H Y D T A G R I R K G G P A P K N L V V P D Y Q Y V S D T V  
UniRef90\_UPI000368D47F L C C P C C H G S H Y D A A G R I R R G P A P E N L H I P P F A F E G D  
UniRef90\_B8GMK9 F C C G C C H G S R F D L A S G R V Y R N P A P T N L V V P P H M Y L S E N L  
UniRef90\_G3PJ66 Y C C P C C H G S H Y D S S G R I R K G G P A P L N L E V P P F Y E F P D E D T V  
UniRef90\_B1Y4A5 F C C P C C H G S T F D G A G R V R K N K P A P T N L E I P P H F Y A S A T  
UniRef90\_Q1AS46 V C C P L H G S R F E L C G G K V L D G P A V F P Q P R Y E V R V R E G S I E V  
UniRef90\_Q0FDH6 F C C P C C H G S H Y D T A G R I R K G G P A P E N L P V P V A T I D A N T I K L  
UniRef90\_UPI000358B2B D C C P C C H G S R F D A R D G T V L E G P A V R P L A R  
UniRef90\_I4X4X1 F C C P C C H A G R Y E K N G Q N I A G P P L G P L D E Y E V R E Q D G F V  
UniRef90\_A6QU87 F C C P C C H G S H Y D I S G R I R K G G P A P L N L E V P P  
UniRef90\_F8EUK4 F C C P C C H G S A F D T A G R I R R G G P A P T N L V V P P Y A F I S N S V  
UniRef90\_Q0ARQ8 Y C C P C C H G S H Y D T S A R I R R G G P A P E N L P V P D Y Y F E T E T  
UniRef90\_UPI0003B4D850 F C C P C C H Q S R F D L A G R V F Q G P A P A N L E V P P Y H F V D D T H  
UniRef90\_S8FT46 Y C C P C C H G S H Y D I S G R I R K G G P A P T N L E V P V H D F D E V N N L  
UniRef90\_D5BNZ6 F C C P C C H G S H Y D T S G R I R K G G P A P T N L E V P P Y T F L S D S  
UniRef90\_D1A1S0 Y C C P C C H G S E F K I T D G S V A R G P A S R G L L E Y P V Q V K G D G L V T  
UniRef90\_UPI000225E2A7 F C C P C C H G S Q F D T A A R I R K G G P A P T N L P E Y V F S P D G S T I T V  
UniRef90\_A5V644 F C C P C C H G S S Y D T A A R I R K G G P A P K N L E V P K Y A F K S D T V  
UniRef90\_UPI0001851034 F C C P C C H L G L Y E K N G A N V P G T P L G P L D V Y P T E V S E D G Y L  
UniRef90\_F4Y0S1 A C C P C C H G S K F D L A D G K V T K G P A D K P L K S Y E T K E E D N  
UniRef90\_B5XAY2 Y C C P C C H G S H Y D A S G R I R K G G P A P L N L E V P Y Y E F P D E D T V I  
UniRef90\_V7C495 F C C P C C H E S H Y D I S G R I R K G G P A P Y N L  
UniRef90\_H5WT65 L C C F C C H F S Q P A K G A V V A G P A P R A L P W I A L R S D A G R L V L  
UniRef90\_D4Z5K5 F C C P C C H G S S Y D T A A R I R K G G P A P K N L E V P K F S F T S D T A I L  
UniRef90\_UPI0003648FA5 Y C C P C C H G G R Y E K N G R N V P G P P S A P L D A F A T K V K G G Y L  
UniRef90\_UPI0003B7B287 F C C P C C H F G R Y T K D G T N V P G T P A K P L D R Y E T K I E  
UniRef90\_UPI00037646F9 Y C C P C C H N G L Y T K D G N N V P G T P P R P L D A Y P V K E K D G F L



	170	180	190	200
UniRef90_UPI00047927E1	I L V G V D			
UniRef90_UPI000366E0E5	I			
UniRef90_B3CME0				
UniRef90_B6AUC7				
UniRef90_UPI0003683478				
UniRef90_I0G3E8	S V A G F I G K V G G			
UniRef90_K4ZIW6				
UniRef90_D5ANZ2				
UniRef90_V4HWX3	I L V G E E E E V			
UniRef90_C1BSB1	L V V G			
UniRef90_G4N4E1	V			
UniRef90_A9H0G5				
UniRef90_UPI000478BCED	Y P W T E N D P R T G K T P W			
UniRef90_W71FK6	M V I G			
UniRef90_UPI0003663771				
UniRef90_U4UVW2				
UniRef90_W8SIL8	V V V G			
UniRef90_D8PBQ3	T L I D M E			
UniRef90_W9H4K0	I R I G			
UniRef90_S8E8U4				
UniRef90_T1PKU2	V V			
UniRef90_L0P896	L V I G			
UniRef90_UPI000364CCF2		A G S A A R P A Q Q R S D D L		
UniRef90_C5FM53	L I I G			
UniRef90_UPI00039A9F2C	I L V G E D D E E G G			
UniRef90_U1IHT2	A A P			
UniRef90_K0JWU4				
UniRef90_K0SJ93	I			
UniRef90_UPI00046E748A				
UniRef90_W6X5B3				
UniRef90_K2DV42	I R I G T D E			
UniRef90_A9UXZ8				
UniRef90_L8HIC2	V L V G V D			
UniRef90_W2TG87	V V I G			
UniRef90_Q67JM2	V N T G K I T E R P R H E P E			
UniRef90_G5ZZF7	I K I G			
UniRef90_A0A026WKI3	L V V G			
UniRef90_I2JWU8				
UniRef90_UPI0003C2B14C	V V V G			
UniRef90_UPI00030F0EB0				
UniRef90_UPI000371414A	V			
UniRef90_V4QE69				
UniRef90_A0A059F115	V T I S I			
UniRef90_UPI00040C9AF1				
UniRef90_UPI0003B721F6	V K I G			
UniRef90_F4L9A8	V G V D E D			
UniRef90_B9XJX5				
UniRef90_UPI000401CFAC				
UniRef90_A3V2L1				
UniRef90_A0A059IR75				
UniRef90_Q6VBC4	V			
UniRef90_W2TBW1	I V I G			
UniRef90_R0DTH0				
UniRef90_E3I0M2				
UniRef90_M7NVZ5	V			
UniRef90_A0A059F5Y9				
UniRef90_UPI0002558961				
UniRef90_W3VR21	I			
UniRef90_M0SG26	V			
UniRef90_UPI00044168DE	V			
UniRef90_A6TX15				
UniRef90_A6GGF9	I S I			
UniRef90_I4EIZ6	V N T G K I T E R A A F D P S Q			
UniRef90_E6TZH7	L L G G T I			
UniRef90_N1QDR3	L V I G			
UniRef90_A8TWZ4	V R I G			
UniRef90_UPI000368D47F				
UniRef90_B8GMK9	L V V G E D E			
UniRef90_G3PJ66	I V			
UniRef90_B1Y4A5				
UniRef90_Q1AS46	R S A G I			
UniRef90_Q0FDH6				
UniRef90_UPI0003B58B2B				
UniRef90_I4X4X1	A I G			
UniRef90_A6QU87				
UniRef90_F8EUK4	I S I G			
UniRef90_Q0ARQ8				
UniRef90_UPI0003B4D850	L I V G V A P			
UniRef90_S8FT46	L V I G			
UniRef90_D5BNZ6				
UniRef90_D1A1S0	V			
UniRef90_UPI000225E2A7				
UniRef90_A5V644	V Q V G			
UniRef90_UPI0001851034				
UniRef90_F4Y0S1				
UniRef90_B5XAY2	V			
UniRef90_V7C495				
UniRef90_H5WT65	A S G F N Q P P G G			
UniRef90_D4Z5K5	V			
UniRef90_UPI0003648FA5	Y			
UniRef90_UPI0003B7B287				
UniRef90_UPI00037646F9				

UniRef90\_UPI00047927E1  
UniRef90\_UPI000366E0E5  
UniRef90\_B3CME0  
UniRef90\_B6AUC7  
UniRef90\_UPI0003683478  
UniRef90\_I0G3E8  
UniRef90\_K4ZIW6  
UniRef90\_D5ANZ2  
UniRef90\_V4HWX3  
UniRef90\_C1BSB1  
UniRef90\_G4N4E1  
UniRef90\_A9H0G5  
UniRef90\_UPI000478BCED  
UniRef90\_W7IFK6  
UniRef90\_UPI0003663771  
UniRef90\_U4UVW2  
UniRef90\_W8SIL8  
UniRef90\_D8PBQ3  
UniRef90\_W9H4K0  
UniRef90\_S8E8U4  
UniRef90\_T1PKU2  
UniRef90\_L0P896  
UniRef90\_UPI000364CCF2  
UniRef90\_C5FM53  
UniRef90\_UPI00039A9F2C  
UniRef90\_U1HT2  
UniRef90\_K0JWU4  
UniRef90\_K0SJ93  
UniRef90\_UPI00046E748A  
UniRef90\_W6X5B3  
UniRef90\_K2DV42  
UniRef90\_A9UXZ8  
UniRef90\_L8HIC2  
UniRef90\_W2TG87  
UniRef90\_Q67JM2  
UniRef90\_G5ZZF7  
UniRef90\_A0A026WKI3  
UniRef90\_I2JWU8  
UniRef90\_UPI0003C2B14C  
UniRef90\_UPI00030F0EB0  
UniRef90\_UPI000371414A  
UniRef90\_V4QE69  
UniRef90\_A0A059F115  
UniRef90\_UPI00040C9AF1  
UniRef90\_UPI0003B721F6  
UniRef90\_F4L9A8  
UniRef90\_B9XJX5  
UniRef90\_UPI000401CFAC  
UniRef90\_A3V2L1  
UniRef90\_A0A059IR75  
UniRef90\_Q6VBC4  
UniRef90\_W2TBW1  
UniRef90\_R0DTH0  
UniRef90\_E3I0M2  
UniRef90\_M7NVZ5  
UniRef90\_A0A059F5Y9  
UniRef90\_UPI0002558961  
UniRef90\_W3VR21  
UniRef90\_M0SG26  
UniRef90\_UPI00044168DE  
UniRef90\_A6TX15  
UniRef90\_A6GGF9  
UniRef90\_I4EIZ6  
UniRef90\_E6TZH7  
UniRef90\_N1QDR3  
UniRef90\_A8TWZ4  
UniRef90\_UPI000368D47F  
UniRef90\_B8GMK9  
UniRef90\_G3PJ66  
UniRef90\_B1Y4A5  
UniRef90\_Q1AS46  
UniRef90\_Q0FDH6  
UniRef90\_UPI0003B58B2B  
UniRef90\_I4X4X1  
UniRef90\_A6QU87  
UniRef90\_F8EUK4  
UniRef90\_Q0ARQ8  
UniRef90\_UPI0003B4D850  
UniRef90\_S8FT46  
UniRef90\_D5BNZ6  
UniRef90\_D1A1S0  
UniRef90\_UPI000225E2A7  
UniRef90\_A5V644  
UniRef90\_UPI0001851034  
UniRef90\_F4Y0S1  
UniRef90\_B5XAY2  
UniRef90\_V7C495  
UniRef90\_H5WT65  
UniRef90\_D4Z5K5  
UniRef90\_UPI0003648FA5  
UniRef90\_UPI0003B7B287  
UniRef90\_UPI00037646F9

UniRef90\_W4Y0P7  
UniRef90\_W7TQL4  
UniRef90\_A0CD74  
UniRef90\_A8FEJ0  
UniRef90\_Q07J11  
UniRef90\_M4AXI4  
UniRef90\_W5Y5H3  
UniRef90\_UPI00036E802D  
UniRef90\_X6GEB2  
UniRef90\_Q7PW11  
UniRef90\_E9FW02  
UniRef90\_Q5NNY0  
UniRef90\_B3GUZ5  
UniRef90\_V8FYX8  
UniRef90\_UPI00040E2A17  
UniRef90\_U6IX86  
UniRef90\_G7W111  
UniRef90\_B6S352  
UniRef90\_A9IR65  
UniRef90\_I4DKU3  
UniRef90\_G2TFQ5  
UniRef90\_D3G0J2  
UniRef90\_U5LF29  
UniRef90\_M9R6F7  
UniRef90\_J9HSC0  
UniRef90\_E0IC63  
UniRef90\_D3DBS2  
UniRef90\_A0A059E265  
UniRef90\_UPI0004174376  
UniRef90\_G7URD2  
UniRef90\_B3RVC6  
UniRef90\_X1B3P6  
UniRef90\_M7YA89  
UniRef90\_B0UHS3  
UniRef90\_Q0PWT1  
UniRef90\_A7H7V0  
UniRef90\_G7Y965  
UniRef90\_UPI000367D396  
UniRef90\_U9VJE4  
UniRef90\_A4X9H2  
UniRef90\_C6CUE8  
UniRef90\_UPI0004685E1A  
UniRef90\_UPI000376415A  
UniRef90\_E6PKG8  
UniRef90\_U6HI46  
UniRef90\_UPI0003654607  
UniRef90\_B8MU14  
UniRef90\_D0LZD1  
UniRef90\_C5PAX7  
UniRef90\_UPI000377AC53  
UniRef90\_D6TNQ8  
UniRef90\_W8S3F7  
UniRef90\_UPI000469ADBF  
UniRef90\_C7LYV8  
UniRef90\_UPI00029AC507  
UniRef90\_W6EER1  
UniRef90\_B9XS40  
UniRef90\_C5BVY8  
UniRef90\_U5WWL3  
UniRef90\_A0A011PRL1  
UniRef90\_D0MH23  
UniRef90\_H1FTV5  
UniRef90\_UPI0004626A37  
UniRef90\_H1YG90  
UniRef90\_L9WB65  
UniRef90\_UPI000348AB25  
UniRef90\_K0IHK6  
UniRef90\_UPI000299EA61  
UniRef90\_UPI00047E0A7B  
UniRef90\_D9T519  
UniRef90\_UPI0003612CC6  
UniRef90\_K2R790  
UniRef90\_A0A037ZK71  
UniRef90\_A9A4Y6  
UniRef90\_B1M3H5  
UniRef90\_W8PN84  
UniRef90\_UPI00034807AC  
UniRef90\_U9U698  
UniRef90\_A4YU96  
UniRef90\_F2THI8  
UniRef90\_A4WIA4  
UniRef90\_E6JDW3  
UniRef90\_D3D439  
UniRef90\_W9CBY2  
UniRef90\_A3ZQU2  
UniRef90\_Q2JG72  
UniRef90\_A6Q5D3  
UniRef90\_K7FMW4  
UniRef90\_B8KHQ6  
UniRef90\_B1ZIQ2  
UniRef90\_W0RJN3  
UniRef90\_M4FSD7

1 10 20 30 40

WRGK  
RT  
V M Q I V W N G T  
A G F P L E V D L A P L A E G Q V I K V F WRGQ  
S K I E I K L G D I P N M T F K W R G K  
V D I S A L P P G Q Q I V V T W Q G K  
I K L A D I P E G K S M T F K W R G K  
L A L A K I E V K L N D I P E G K N V T F K W R G K  
V D I S T V P P G Q T V K V V W R D Q  
WRNK  
WQ GK  
T L A M A N V E V N L A N I P E G K N I V V K WRNK  
V E I S L A A V P E G K N A V F E W RNK  
V D L S G I E E G M S V T V K WRGK  
WQ GK  
I K L A D I P E G K S V T F K W R G K  
S K  
A D I T G L Q E G Q R W R G Q P I W V V K R S  
A F K W R G K  
W I P L G P L D A Y  
A D T I A A G A P I E V D L A P I Q I V N V F W R G K  
A G A P I E V D L S P I S I I N V F W R G K  
V K L A D I P E G R N V T F K W R G K  
A S  
WRNK  
V A I A A C N P T E P A S D T P A V G D S V P A S E A  
S G D  
E G T  
G K  
A E V I A A G A P L E V D L T P I Q I V N V F W R G K  
L H R T  
G L T N A P A A A L R I V S E L R G E K M S E R P R W M T Q I G T R L T  
K N V V F K W R N K  
I F T P N R P F S N S  
P P S T G G  
V F Y I P A A R S  
G K  
E R D  
P K K A L L D A A T Y I D T T S L P L N E I A Y S W Q K K  
W Q G R  
WRGK  
K D  
L S S C G S G A K N N D P S P Q N N P P A T G S  
L D R T  
H A D Q  
N Q A S L E K V P V I L P D G T Q A N V N T Y P I E V I T Y P A T G D  
G T  
A N S  
H E G A  
V D R L E G L P R V S F G K P S I T G S A R N A V P L F A D L P L Q  
F F Q P P E A A D  
WRGK  
H Y H L D E H

UniRef90\_W4Y0P7 P L F V R H R T Q E E S V D V A S L R D P Q H D K E R V Q K D E W L V L I G V 80  
UniRef90\_W7TQL4 P A E I R D R E E T A V N M N E L R D A E P D A A R A Q Q P E W L I T V G  
UniRef90\_A0CD74 P V F I R R L T Q Q E L K D E D N L P K E T L D P S S E S V L T N C  
UniRef90\_A8FEJ0 P V Q V V S V D E L T K E P K R F D F K I D Q V D A W Y E S K S E R S A W V Y  
UniRef90\_Q07J11 P I F I N H R T P K E N A D W K S F R D P Q P D S D R V K A G H E Q W L V  
UniRef90\_M4AXI4 P L F V I R H R T P E S L A A E A D V N L G E L R D P Q H D K D R V L N P K W L  
UniRef90\_W5Y5H3 P V F I T H R T P E S L A A E A Q D L R D D G Q S N D Q Q Q P P Y A K N W H R S L  
UniRef90\_UPI00036E802D I L V K K D E I P M S M V J E Y F P A Q K P W E R N P V L V V N  
UniRef90\_X6GEB2 E M K D G E A V N L A E L K D P L A R N A N L P A D A P A T D A N R T  
UniRef90\_Q7PW11 P L F I R H R T S A E I E A V A T L R D P Q N D A E R V Q K P E W L V V I G V  
UniRef90\_E9FW02 P L F I R H R T A E S K V D M S T L R D P Q L D S D R A Q R P E W L V L I G V  
UniRef90\_Q5NNY0 P V F I R H L T E A N A V A L S D L R D P E T L A Q R T K A G K Q D W L V T M  
UniRef90\_B3GUZ5 P L F I R H R S A E E A V P L T S L R D P Q K D E D R V K E D K W L I C V G V  
UniRef90\_V8FYX8 P V W L L H R T P E M T A G L K K L A D P N S D R P G F P E F A K N P Y R S R K  
UniRef90\_UPI00040E2A17 L A V E D I T T T P Q R V D W Q I E Q V D G W Y E S K P G R S  
UniRef90\_U6IX86 P L F I R H R T Q E M I E P L S D L R D P E T D E Q R V K D P K W L V C V G  
UniRef90\_G7W11 D R L K S P L V I Y N S P L A E N S G W Q S A A A A R V W V K R  
UniRef90\_B6S352 P I E V R H R T P E E G V N V S Q L R H P Q P D S E R V K K P E W L I V V G  
UniRef90\_A9IR65 P V V I R N R T A K E A V N L S L K L R D R A R N P N F E G E K E A T S A G K G  
UniRef90\_I4DKU3 P L F I R H R T P E K A V P L D E L R D P E P D E K R A T N P E W L V V I G V  
UniRef90\_G2TFQ5 P V F V R H R T A L E I A E A Q A V D P A T L R D P Q T D G E R V Q N A P  
UniRef90\_D3G0J2 T P Q K V S E I T A E P T R V D F K F E Q Q D A W Y T A W V Y K D  
UniRef90\_U5LF29 L V D M G A E N A E A T D E N R A L A N F S P R N P D G S M G V P V G  
UniRef90\_M9R6F7 P L F I R H R T A E I A E E A V N T G T L R D P Q H D S E R V K N P  
UniRef90\_J9HSC0 V V E E S K I T N D P V E K F K I H Q V D G W Y E S E A E L V A W I S K D  
UniRef90\_E0IC63 V T A E P R K I E V D G V P V L L T R  
UniRef90\_D3DBS2 P F F I R R R T E A N S V N I E R L P D P E T D E A R L R P  
UniRef90\_A0A059E265 E D V E N I T E E P T R V D W E I D Q V D A W Y E A W V Y K D  
UniRef90\_UPI0004174376 K A I L D A L P S L D G R L R D P N S E N E D Q Q P A Y V L K G N P E L R S I K  
UniRef90\_G7URD2 P L F I R H R T A E Q N V N L D E L R D R E H D N D R V K D P S W L V L I G V  
UniRef90\_B3RVC6 P L D D P T L F S Y T R T K I N G W E K T V N S F G V Y V W R Y G E G  
UniRef90\_X1B3P6 L I F V R K L G D M K A V P L S A M I D P A A F T T R V K N G H D Q W L I V Y G  
UniRef90\_M7YA89 L I F V R R L S A K E I E D M K A V M G D L D P A P Y A R V K E  
UniRef90\_B0UHS3 P L F I R H R A K E Q A V A I S T L R D P Q A D S D R V K D P K W L V L I G V  
UniRef90\_Q0PWT1 P A P L V D V P A P V G G R L S L K V G G A V R A R A P G L D E P V L I A R V  
UniRef90\_A7H7V0 P L F V R H R T Q E E I E R E R S V L H E L R H P Q T D E S R V Q R P  
UniRef90\_G7Y965 A R L Q A K V G A D I V I G R P G E V S S P D A V I E P G T A A V V R G V Y  
UniRef90\_UPI000367D396 P D G F E T R G T V A D L D T K G F L T K K G L A V G N V T V V R D P A  
UniRef90\_U9VJE4 P G G G D R E G A Q S L A R T S D I P V G G G A V Y A A Q G V V I T Q P  
UniRef90\_A4X9H2 W V K V V E E S K V I T T E P Q E K F Q I H Q V D G W Y V S D P E L S A W I T K D  
UniRef90\_C6CUE8 P V F I R H R K A Q D E A A V G S L P D T N A R N A N L S D P E A S A I V M P S  
UniRef90\_UPI0004685E1A L I F V R N R K E S E A V K L S E L I D P Q P D S A R V K E H A K W L V V Y G  
UniRef90\_UPI000376415A P A M L V S L N V T Q S R V V D P L S Q S T Q Y P T P E W A R N Q W R S T K  
UniRef90\_E6PKG8 P L F V R H R D Q E R S V P L S A L R D P E T D E Q R V K D P K W L V C V G V  
UniRef90\_U6HI46 M P A D I A Q G A E N A K V V P V P P A E G E G V V A Q R A G R P V A I S T  
UniRef90\_UPI0003654607 K D I K S L R D I P N L E K V I E S E V E G V Q D G K V L V V R  
UniRef90\_B8MU14 P V D V L D A E A L T G A P V R V Q I N A S E M R N A W A T A Q D T P L G A T  
UniRef90\_D0LZD1 I G S L A A M T S K D L A S L A R V K D G E K S E R V S I E G L E E A K L F V K  
UniRef90\_C5PAX7 G P A P A A S G P V D A G A L E D L P V I G S A V K F D R D D V Q A V V S R P  
UniRef90\_UPI000377AC53 Y L V H L A N D A Q V L L S G Q N L Q D Q F L E N V V H D G  
UniRef90\_D6TNQ8 P V F I S R R T P E L Q Y P V S R N P N G D F D A P A T D N R T L A P Y E G D  
UniRef90\_W8S3F7 M V A V G N M K D F S E E P K V D F K L P V Q D G W A N Y D V S L S A W V T K T  
UniRef90\_UPI000469ADB F V V N V G A L T K T L R E V L G D P S R G V R R L V V G H V E D V A G R R  
UniRef90\_C7LYV8 D L V A F K D L E D G Q I T S F S I N G T S V V L V K  
UniRef90\_UPI00029AC507 P L F I L K K D A S L T L D K K R D I K I G D Y Y T L M V G  
UniRef90\_W6EER1 P V T T L D A L P A D G V P R K F P V L A N K T D A W N K Y Q N V P I G A V Y  
UniRef90\_B9XS40 M T H Q A A R V A D V P P G T A V R V E L D A D V E V A V V C  
UniRef90\_C5BVY8 R L R T K E W T P V L P A S S L N G K P V R V E V D G V G L V V C Q T  
UniRef90\_U5WVWL3 T L W I L R R T A E E A D H E S E L I D P H C Q H S L Q P E N C R N R H R S L H  
UniRef90\_A0A011PRL1 P V A R V D E L A D G Q M K Q V Q A G E T E L L V R  
UniRef90\_D0MH23 P I F V L K K T A A M V A S Q T D A Q K E R D V V  
UniRef90\_H1FTV5 P N T S V V R S A S R L N E I L L I R L D P A E L D E K T R A R A  
UniRef90\_UPI0004626A37 A I F T A N L G T E L L R T L V G Q S K T S N G I L V R T A T G N A T  
UniRef90\_H1YG90 N A D A E N L H H V T A A D D I E D G E R V V D I E G R E I A V F Y  
UniRef90\_L9WB65 P R D W C D L G P L D G F P D G G V G G A D A A G V P V V V A R  
UniRef90\_UPI000348AB25 P K T D D E V L N Q E A F R T W Q L I R L P A E L V G G N R  
UniRef90\_K0IHK6 L K R L Q D L S V G R P V M V P V L G S K Q D A W V Q S D Q Q V L G R V A  
UniRef90\_UPI000299EA61 V S H L V T L G W H D L C P A T D L P D G W P V R R T L G Y I S L F V L R  
UniRef90\_UPI00047E0A7B V P K G T V I S A D V D G V Q V A I V H G  
UniRef90\_D9T519 A H R G P N D W C D L G P L D D F S E G R P E V R D A G N V K V V L R  
UniRef90\_UPI0003612CC6 K L K G I D S L L K N G D K Q E V E V E G I E N G K V L L V K  
UniRef90\_K2R790 M S D L D W I S V G H V D D L P E G R V K T V T A R T T S I C L V H  
UniRef90\_A0A037ZK71 A A L D A E A F R K W Q F I R L P E E L G G A K  
UniRef90\_A9A4Y6 N Q D K P R E V R L A L D A L P L G G K A E G K A G D A V L F V R D  
UniRef90\_B1M3H5 P V F V R N R R A R V R I R E L K D R Y A R N A N I N S N A L A F D R N R Q  
UniRef90\_W8PN84 A D Y L A D L V P D G W H D L G P L D G F A D G G L D G G D V D G V P V V V A R  
UniRef90\_UPI00034807AC N A G K A S E L K D G Q M K E V T V G N N S K V L L A K  
UniRef90\_U9U698 P S G L V R L C H S D E I G E A Q S R G F D P R D E G Q D S L F V V R  
UniRef90\_A4YU96 K D L T S L D L P A D K I E V E V E G E K G K L L L L K  
UniRef90\_F2THI8 D G G P K L E A P E W E R V A T V D E R Q L G K K M A V V G L W R E V L A T P  
UniRef90\_A4WIA4 L A A T A Q S V V R K P R P S V R P V G E A T G  
UniRef90\_E6JDW3 P T G A A D A G G S G W R V C A A S D L A D E S A L G V E I D G Q P V C V V R  
UniRef90\_D3D439 K L K D F S T L D L K P G E K K E V E V E G I E G K V L L R C N  
UniRef90\_W9CBy2 P V V S D Q T D A W N Q N R N Q P I G A V Y L R R M P  
UniRef90\_A3ZQU2 H L L L P P G W H P L A L L D E L A D G R P E A R L L R D V P V V L L R  
UniRef90\_Q2JG72 P I F I L K K P P E E N C H T I P D E T K K R L V K I V G  
UniRef90\_A6Q5D3 P I T L Q N L K D V V E A S V C H V K D L E E N G Q M R E V D L G C K A L I R  
UniRef90\_K7FMW4 R P A A G E R T R L R L E D I P L G G M A E G K A G D E A A L F V R  
UniRef90\_B8KHQ6 R P A D A T A R D V P P G F E R A R L D D V P A T G L L G V R  
UniRef90\_B1ZIQ2 K L K S V I T S L D L K P G D K Q E V I E V I G L P D A K V V L L N A G  
UniRef90\_W0RJN3  
UniRef90\_M4FSD7

UniRef90\_W4Y0P7  
UniRef90\_W7TQL4  
UniRef90\_A0CD74  
UniRef90\_A8FEJ0  
UniRef90\_Q07J11  
UniRef90\_M4AXI4  
UniRef90\_W5Y5H3  
UniRef90\_UPI00036E802D  
UniRef90\_X6GEB2  
UniRef90\_Q7PW11  
UniRef90\_E9FW02  
UniRef90\_Q5NNY0  
UniRef90\_B3GUZ5  
UniRef90\_V8FYX8  
UniRef90\_UPI00040E2A17  
UniRef90\_U6IX86  
UniRef90\_G7W111  
UniRef90\_B6S352  
UniRef90\_A9IR65  
UniRef90\_I4DKU3  
UniRef90\_G2TFQ5  
UniRef90\_D3G0J2  
UniRef90\_U5LF29  
UniRef90\_M9RF67  
UniRef90\_J9HSC0  
UniRef90\_E0IC63  
UniRef90\_D3DBS2  
UniRef90\_A0A059E265  
UniRef90\_UPI0004174376  
UniRef90\_B7URD2  
UniRef90\_G3RVC6  
UniRef90\_X1B3P6  
UniRef90\_M7YA89  
UniRef90\_B0UHS3  
UniRef90\_Q0PWT1  
UniRef90\_A7H7V0  
UniRef90\_G7Y965  
UniRef90\_UPI000367D396  
UniRef90\_U9VJE4  
UniRef90\_A4X9H2  
UniRef90\_C6CUE8  
UniRef90\_UPI0004685E1A  
UniRef90\_UPI000376415A  
UniRef90\_E6PKG8  
UniRef90\_U6HI46  
UniRef90\_UPI0003654607  
UniRef90\_B8MU14  
UniRef90\_D0LZD1  
UniRef90\_C5PAX7  
UniRef90\_UPI000377AC53  
UniRef90\_D6TNQ8  
UniRef90\_W8S3F7  
UniRef90\_UPI000469ADB  
UniRef90\_C7LYV8  
UniRef90\_UPI00029AC507  
UniRef90\_W6EER1  
UniRef90\_B9XS40  
UniRef90\_C5BVY8  
UniRef90\_U5VWWL3  
UniRef90\_A0A01PRL1  
UniRef90\_D0MH23  
UniRef90\_H1FTV5  
UniRef90\_UPI0004626A37  
UniRef90\_H1YG90  
UniRef90\_L9WB65  
UniRef90\_UPI000348AB25  
UniRef90\_K0IHK6  
UniRef90\_UPI000299EA61  
UniRef90\_UPI00047E0A7B  
UniRef90\_D9T519  
UniRef90\_UPI0003612CC6  
UniRef90\_K2R790  
UniRef90\_A0A037ZK71  
UniRef90\_A9A4Y6  
UniRef90\_B1M3H5  
UniRef90\_W8PN84  
UniRef90\_UPI00034807AC  
UniRef90\_U9U698  
UniRef90\_A4YU96  
UniRef90\_F2THI8  
UniRef90\_A4WIA4  
UniRef90\_E6JDW3  
UniRef90\_D3D439  
UniRef90\_W9CBY2  
UniRef90\_A3ZQU2  
UniRef90\_Q2JG72  
UniRef90\_A6Q5D3  
UniRef90\_K7FMW4  
UniRef90\_B8KHQ6  
UniRef90\_B1ZIQ2  
UniRef90\_W0RJN3  
UniRef90\_M4FSD7

90 100 110 120

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

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

UniRef90\_W4Y0P7 Y C P C H G S H Y D A 130 S G R I R K G P A P L N L E I P 150 E Y T F P T D E M 160  
UniRef90\_W7TQL4 F C C C H G S H Y D V S G R I R K G P A P L N L E I P P Y K F L T N T K V L  
UniRef90\_A0CD74 V C C C H G S V L Y D K D Y A R V R Q G P A L Q N L P L P  
UniRef90\_A8FEJ0 F C C C H G S L Y D K S S G R A R L G P A P L N L A L V P Y E F L S D T K D G Y L  
UniRef90\_Q07J11 Y C C C H G S Q Y D S S G R I R K G P A P L N L A L V P Y E F L S D T  
UniRef90\_M4AXI4 Y C C C H G S H Y D A S S G R I R K G P A P L N L A L V P Y E F P D E E T V I  
UniRef90\_W5Y5H3 V C C P W H G S V F D L R T G R V V D G P A E R D L R T Y R V E V K G D E V I V  
UniRef90\_X6GEB2 Y C C P C H G S T Y D T A G R V I R R G P A P E N M S V P V F Q F L S D T  
UniRef90\_Q7PW11 Y C C P C H G S H Y D A T S G R I R K G P A P L N L E V P H Y E F P E D G L L  
UniRef90\_E9FW02 Y C C P C H G S H Y D A T S G R I R K G P A P L N L E P I H T F V D E N T L V V  
UniRef90\_Q5NNY0 I C C S C H G S A F D T A G R I R R G P A P T N L V V P P Y R  
UniRef90\_B3GUZ5 Y C C P C H G S H Y D A T S G R I R K G P A P L N L P Q Y K F V D E N T  
UniRef90\_V8FYX8 L C C P C H G S Q F D L A G R V L K N P A P D N L L V P P Y Y V D D N T  
UniRef90\_UPI00040E2A17 Y C C P C H G S D G R Y T K D G V N R L P G T P P L A P L A T Y E Q K V E N G I L  
UniRef90\_U6IX86 Y C C P C H G S H F D F E S G R I R R G P A P T N M E V P S Y R V D E N T  
UniRef90\_G7W11 I C C P C H A S V Y D E S G R V S G P A P R A L A R V A V D L K P N G S L L  
UniRef90\_B6S352 Y C C P C H G S H Y D A T S G R I R K G P A P L N L D V P Q Y V F K D E S T V I  
UniRef90\_A9IR65 L C C P C H G S V Y D T A G R V R S G P A N Y N L A I P P Y Q F L S D T L  
UniRef90\_I4DKU3 L C C P C H G S H Y D A T S G R I R K G P A P L N L E I P P Y D F V G D L  
UniRef90\_G2TFQ5 Y C C P C H G S H Y D S S G R A R K G P A P L N M A I P P Y T F R D D T  
UniRef90\_D3G0J2 Y C C P C H G F G M Y E K D G I N V P G T P P Q R P L D V Y D V M V E D G K V  
UniRef90\_U5LF29 Y C C P C H G G L Y T K D G T N V P G T P P A A P L D V Y P T K E K D G F L  
UniRef90\_M9RF67 Y C C P C H G S H Y D T A G R I R K G P A P R N L L V V P V A S V D E T T Q L  
UniRef90\_J9HSC0 Y C C P C H G S H Y D A T S G R I R K G P A P L N L E V P H Y E F P E D G L  
UniRef90\_E0IC63 V C C P C H G A H Y T R D G K N L S V A N P L D E Y E V K I D G G F I  
UniRef90\_D3DBS2 R C C P W H G S R F E L I A S G E V V H G P A T R P Q Q V V E V R V Q I R N P E V  
UniRef90\_A0A059E265 Y C C P C H G S H Y D I L I S G R I R K G P A P L N L P V V P D Y V Y L T N D  
UniRef90\_UPI0004174376 Y C C P C H D G R Y Y K S G E N V P N T P P P E G L D Y Y E Y K I E D G T  
UniRef90\_G7URD2 F C C P C H K S R F D M S S G R I R K G P A P T N L L V P P H H Y Q D D N T  
UniRef90\_B3RVC6 F C C P C H G S H Y D A T S G R I R K G P A P L N L E I P P S Y K F A T D T T  
UniRef90\_X1B3P6 F C C P C H D G E F D K E G E V V A G P P P E P L Y E F E T K I E E  
UniRef90\_M7YA89 A C C P C H G S Q F D A V G R V R R H G P A P I N L P I P P Y A F Q T D T  
UniRef90\_B0UHS3 A C C P C H G S Q F D A V G R V R R G P A P I N L P I P P Y A F Q G D  
UniRef90\_Q0PWT1 Y C C P C H G S H Y D A S G R I R K G P A P L N L E V P K Y E  
UniRef90\_A7H7V0 V C C P C H Q S T F D L Q G R V T N P G A V Q G L T P Y A A F Y D P S L G E L  
UniRef90\_G7Y965 Y C C P C H G S H Y D A S G R I R K G P A P L N L E I P E Y N F V D D S T  
UniRef90\_UPI000367D396 D C C P C H G S R F D V A T D G N V L E G P A V H P L A R  
UniRef90\_U9VJE4 S C C A C H G S E F A T D G R V T I G P A V R P L A R E S Y E T L I E G E S  
UniRef90\_A4X9H2 N C C P C H G S K F S I V E D G K N L A V A H P L D E Y E V K V E N G F V  
UniRef90\_C6CUE8 F C C P C H G S H Y D L S G R I R K G P A P E N L P I P P A E W T D A T  
UniRef90\_UPI0004685E1A S C C P C H G S L Y D T S G R V R R G P A P T N L P I V P P Y A F L N D T K  
UniRef90\_UPI000376415A L C C P C H G S T Y D L A A R V F K N P A P G N M A  
UniRef90\_U6HI46 D C C P C H G S H F D F S G R I R K G P A P T N M  
UniRef90\_UPI0003654607 Y C C P L H A S R F T A S G E R I E G P A T R G L R P V  
UniRef90\_B8MU14 T C C P W H G A C F T V A T G E I E D A P A N R L N T F E V Y E K E G A V  
UniRef90\_D0LZD1 K C C P C H S A F A P D G E K Q S G P A S K R G L D P L P V K V E D  
UniRef90\_C5PAX7 T C C P W H G A C F N V M T G D I E D A P A N A L E K F E F F E K D S A V Y V  
UniRef90\_UPI000377AC53 V C C P C H S S Q F D L T T G E V L A G P A E S G L E P Y P A S V A D  
UniRef90\_D6TNQ8 K C C P C H G S H Y N V N G E F L D G P A P R S L D R F D M N F K D G E I  
UniRef90\_W8S3F7 F C C P C H G S H Y D A A G R I R R G P A P E N L H I P V A V D E S T  
UniRef90\_UPI000469ADB Y C C P C H D G L Y T K D G S N V P N T P P N A P L D V Y Q Y V V E E D G  
UniRef90\_C7LYV8 T C C P A H G S Q F S C E S S G R V R G P A D R A L R S L A V V V E G S E L V V  
UniRef90\_UPI00029AC507 V C C P W H K A V F D A V D G S G S L V E P L A L E P L P R Y P V E V D G R  
UniRef90\_W6EER1 I C C P C H N G H F D Y N G N A L S G P V T K P L V I P P F K V Q D E T I I V  
UniRef90\_B9XS40 L C C P C H N S T F K V D G K I A N P G S P A S R G L D Q L K V E V K D G K V  
UniRef90\_C5BVY8 E C W L H G S V F D L R T E S G Q P V G L P A T R P V P V Y P V T I D G E  
UniRef90\_U5WVWL3 V C C P W H G S R F A L E S G E V L R G P A S A P L P C Y E A R L V D G M V E V  
UniRef90\_A0A011PRL1 I C C P C H T S R F D L A G R V F R G P A P A N L V I P V Y R L D G D N R V V  
UniRef90\_D0MH23 I C C P W H H A C F H V R T G E H L E P P G M D H L P R F V R V E D D Q V L V  
UniRef90\_H1FTV5 L C C A C H G G Q F D W A G A V T K V P P P R G F D I P P F K I D G N K L V L  
UniRef90\_UPI0004626A37 K C C M C H N S E Y D P R S G A V V I G  
UniRef90\_H1YG90 I C C P N H G S E F S T S G S V L L G P A V Q S L Q K Y T I S I A G N T L T V  
UniRef90\_L9WB65 A C C P W H G W E F D I T S G E H L A S D D Y R L P S Y D V H V T D G D L  
UniRef90\_UPI000348AB25 R C C P W H G S E F S L D D G T V V H G P A T A S L E A L E T S T A D G R L  
UniRef90\_K0IHK6 L C C P C H G S M Y D P Y T G P A A L Q G P P S N V L P R L D I E V E S N G D  
UniRef90\_UPI000299EA61 V C C P C H R A T F D L N G E R Q N E A N H A P R D M D P L A C R V  
UniRef90\_UPI00047E0A7B V C C P W H G S T F R V A D G S V T H G P A T S R Q P A F E T R V N E D G  
UniRef90\_D9T519 E C W L H G S R F D L R T G E P T G L P A T E P V P V Y P V E V R D G D I Y L  
UniRef90\_UPI0003612CC6 V C C P W H G S T F R L S D G E V V R G P A T A P Q P R L I S R V R A  
UniRef90\_K2R790 T C C P W H G A C F N V A T G D V E D A P A L D P L A T F E I V I Q K D G G V  
UniRef90\_A0A037ZK71 R C C P W H G W F D P L T G A P P G G H E D T G Q K L F D V E I R D G E I  
UniRef90\_A9A4Y6 Y C C P C H G S M Y D P V S G T A Y V I G A P S N L P K L T L E V D S D G  
UniRef90\_B1M3H5 A C C A C H G S A F A V A D G G L E E P P A L E A L T R Y P V R I E G G E A  
UniRef90\_W8PN84 R C C P W H G S E F H L D D G M V I H G P A T A S L E T L E A S V  
UniRef90\_UPI00034807AC I C C P W H G A C F N V K T D D G I E D S P G L D N L Q S L K V T V K D D D I  
UniRef90\_U9U698 V C C H A H G A E F M P D S G L C V I Q G P C R E R H Q L E L V V D A D G E L  
UniRef90\_A4YU96 T C C P W H G A C F N I T T G D V E D A A L N A L H K Y E V F E K D G S V  
UniRef90\_F2THI8 I C C L G H A T F D V R T G R V I L H P E A R V L P K Y Q V K V E G V V Y V  
UniRef90\_E6JDW3 D C C P W H G S R F T A C G E L I E G P A T S D L K R  
UniRef90\_D3D439 E C W L H G S Q F D L T T G E P T S L P A I E P V P T Y P V T I D G D D  
UniRef90\_W9CBy2 T C C P W H G A C F N A T N G R D I E N A P A I D A L P S F E L S E K N G S V  
UniRef90\_A3ZQU2 Q C C P C H K S E F N P D G V R D P E T C P S P R D L D P L P V D A E K L G K Q  
UniRef90\_Q2JG72 R C C P W H G S T F R V I D G A V V H G P A T A P Q P R F D V W I S D G E V R V  
UniRef90\_A6Q5D3 H C A C H G G E Y D A C G V N T F G P P P R P M D I P P F K I E G T K V Y L  
UniRef90\_K7FMW4 R C C P W H G A C F S I I G T G D I E D F P P G L D S L P K F V K I E K E K V L  
UniRef90\_B8KHQ6 V C C A H G A R F D I T T G I C I S G P C L Q S L S A I A L H V R R D G Q L  
UniRef90\_B1ZIQ2 Y C C P W H K A F S I A D G A L L E R P A L E S L K R Y P V R I E G E E  
UniRef90\_W0RJN3 V C C G W H G A T F D C R T G A V C R G P A S I D L Q Q Y D V L I R D G D V  
UniRef90\_M4FSD7 T C C P W H G A C F N A K T G D V E D S P A L D S L P T F N V V E R D G A V

	170	180	190	200
UniRef90_W4Y0P7	L I V G			
UniRef90_W7TQL4	I			
UniRef90_A0CD74				
UniRef90_A8FEJ0	Y			
UniRef90_Q07J11				
UniRef90_M4AXI4	V			
UniRef90_W5Y5H3				
UniRef90_UPI00036E802D	Y			
UniRef90_X6GEB2				
UniRef90_Q7PW11	I V			
UniRef90_E9FW02				
UniRef90_Q5NNY0				
UniRef90_B3GUZ5				
UniRef90_V8FYX8				
UniRef90_UPI00040E2A17	Y			
UniRef90_U6IX86				
UniRef90_G7WII1	I Q V G M D T			
UniRef90_B6S352	I			
UniRef90_A9IR65	L K I G			
UniRef90_I4DKU3	L V V G			
UniRef90_G2TFQ5				
UniRef90_D3G0J2	Y			
UniRef90_U5LF29				
UniRef90_M9R6F7				
UniRef90_J9HSC0	V V V G			
UniRef90_E0IC63	Y			
UniRef90_D3DBS2	R A L R A N P V G P S A G P R E T R P R I T			
UniRef90_A0A059E265				
UniRef90_UPI0004174376				
UniRef90_G7URD2	I I I G V D P			
UniRef90_B3RVC6	L L V G			
UniRef90_X1B3P6				
UniRef90_M7YA89				
UniRef90_B0UHS3				
UniRef90_Q0PWT1				
UniRef90_A7H7V0	A V D L V A G D E G F P R W			
UniRef90_G7Y965	V V V G			
UniRef90_UPI000367D396				
UniRef90_U9VJE4				
UniRef90_A4X9H2				
UniRef90_C6CUE8	Y V			
UniRef90_UPI0004685E1A				
UniRef90_UPI000376415A	I R I G E D G			
UniRef90_E6PKG8				
UniRef90_U6HI46				
UniRef90_UPI0003654607				
UniRef90_B8MU14	Y I K G E E G A I K T G			
UniRef90_D0LZD1				
UniRef90_C5PAX7	R A G A E A L K R N G R Q P			
UniRef90_UPI000377AC53				
UniRef90_D6TNQ8	I			
UniRef90_W8S3F7				
UniRef90_UPI000469ADBF				
UniRef90_C7LYV8	R G G G V			
UniRef90_UPI00029AC507	V L V G N E P M K R E A P L E R Q			
UniRef90_W6EER1	G E I G			
UniRef90_B9XS40	L V A F Q N F E A G I P Q K			
UniRef90_C5BVY8				
UniRef90_U5WWL3	R G D G H E G L			
UniRef90_A0A011PRL1	I			
UniRef90_D0MH23	E L P D T V E G R R A P T L A R R D P Q E			
UniRef90_H1FTV5	G E A G P E Y T			
UniRef90_UPI0004626A37				
UniRef90_H1YG90	S A			
UniRef90_L9WB65	Y V			
UniRef90_UPI000348AB25	W V			
UniRef90_K0IHK6				
UniRef90_UPI000299EA61				
UniRef90_UPI00047E0A7B				
UniRef90_D9T519	S V D G D G R P L P S N G V T R			
UniRef90_UPI0003612CC6				
UniRef90_K2R790	F I K G D E E T I K A N K R P			
UniRef90_A0A037ZK71	F V G L E P E P P R T R T V T D V M V D T M T N W G L Q S			
UniRef90_A9A4Y6				
UniRef90_B1M3H5	V A T L T P E P V			
UniRef90_W8PN84	Y A V			
UniRef90_UPI00034807AC				
UniRef90_U9U698	Y V V D E A A L K G G R R P P R			
UniRef90_A4YU96	F V			
UniRef90_F2THI8	Y V K A D E T T F K Q N G			
UniRef90_A4WIA4	R V P W			
UniRef90_E6JDW3				
UniRef90_D3D439				
UniRef90_W9CBY2	Y V T G			
UniRef90_A3ZQU2	G E V W V E F M N F Q T G P A R K			
UniRef90_Q2JG72	R L P G			
UniRef90_A6Q5D3	G E E G P E Y			
UniRef90_K7FMW4	R A			
UniRef90_B8KHQ6	V A			
UniRef90_B1ZIQ2	A V A R L E P I E A D T P R			
UniRef90_W0RJN3	Y V			
UniRef90_M4FSD7	Y L T G E E			

UniRef90\_W4Y0P7  
UniRef90\_W7TQL4  
UniRef90\_A0CD74  
UniRef90\_A8FEJ0  
UniRef90\_Q07J11  
UniRef90\_M4AXI4  
UniRef90\_W5Y5H3  
UniRef90\_UPI00036E802D  
UniRef90\_X6GEB2  
UniRef90\_Q7PW11  
UniRef90\_E9FW02  
UniRef90\_Q5NNY0  
UniRef90\_B3GUZ5  
UniRef90\_V8FYX8  
UniRef90\_UPI00040E2A17  
UniRef90\_U6IX86  
UniRef90\_G7W111  
UniRef90\_B6S352  
UniRef90\_A9IR65  
UniRef90\_I4DKU3  
UniRef90\_G2TFQ5  
UniRef90\_D3G0J2  
UniRef90\_U5LF29  
UniRef90\_M9R6F7  
UniRef90\_J9HSC0  
UniRef90\_E0IC63  
UniRef90\_D3DBS2  
UniRef90\_A0A059E265  
UniRef90\_UPI0004174376  
UniRef90\_G7URD2  
UniRef90\_B3RVC6  
UniRef90\_X1B3P6  
UniRef90\_M7YA89  
UniRef90\_B0UHS3  
UniRef90\_Q0PWT1  
UniRef90\_A7H7V0  
UniRef90\_G7Y965  
UniRef90\_UPI000367D396  
UniRef90\_U9VJE4  
UniRef90\_A4X9H2  
UniRef90\_C6CUE8  
UniRef90\_UPI0004685E1A  
UniRef90\_UPI000376415A  
UniRef90\_E6PKG8  
UniRef90\_U6HI46  
UniRef90\_UPI0003654607  
UniRef90\_B8MU14  
UniRef90\_D0LZD1  
UniRef90\_C5PAX7  
UniRef90\_UPI000377AC53  
UniRef90\_D6TNQ8  
UniRef90\_W8S3F7  
UniRef90\_UPI000469ADBF  
UniRef90\_C7LYV8  
UniRef90\_UPI00029AC507  
UniRef90\_W6EER1  
UniRef90\_B9XS40  
UniRef90\_C5BVY8  
UniRef90\_U5WWL3  
UniRef90\_A0A011PRL1  
UniRef90\_D0MH23  
UniRef90\_H1FTV5  
UniRef90\_UPI0004626A37  
UniRef90\_H1YG90  
UniRef90\_L9WB65  
UniRef90\_UPI000348AB25  
UniRef90\_K0IHK6  
UniRef90\_UPI000299EA61  
UniRef90\_UPI00047E0A7B  
UniRef90\_D9T519  
UniRef90\_UPI0003612CC6  
UniRef90\_K2R790  
UniRef90\_A0A037ZK71  
UniRef90\_A9A4Y6  
UniRef90\_B1M3H5  
UniRef90\_W8PN84  
UniRef90\_UPI00034807AC  
UniRef90\_U9U698  
UniRef90\_A4YU96  
UniRef90\_F2THI8  
UniRef90\_A4WIA4  
UniRef90\_E6JDW3  
UniRef90\_D3D439  
UniRef90\_W9CBY2  
UniRef90\_A3ZQU2  
UniRef90\_Q2JG72  
UniRef90\_A6Q5D3  
UniRef90\_K7FMW4  
UniRef90\_B8KHQ6  
UniRef90\_B1ZIQ2  
UniRef90\_W0RJN3  
UniRef90\_M4FSD7













UniRef90\_B4VVG4  
UniRef90\_D8HMNO  
UniRef90\_W6VJF8  
UniRef90\_F4CZ81  
UniRef90\_L2FIZ5  
UniRef90\_UPI0003792A75  
UniRef90\_UPI00036F745B  
UniRef90\_Q28MM5  
UniRef90\_UPI00047ED360  
UniRef90\_A5KC70  
UniRef90\_F6D900  
UniRef90\_M5TXX0  
UniRef90\_M0M0T9  
UniRef90\_T0J4K7  
UniRef90\_UPI000363FAA1  
UniRef90\_C3UVE5  
UniRef90\_A0A024GXA0  
UniRef90\_M0E3U2  
UniRef90\_E2SA17  
UniRef90\_H5WYR1  
UniRef90\_A0NN04  
UniRef90\_F6DIR5  
UniRef90\_M0M3D8  
UniRef90\_UPI000376638D  
UniRef90\_UPI00035E4167  
UniRef90\_F0MBP7  
UniRef90\_D8JA06  
UniRef90\_H3BCW2  
UniRef90\_W6RNT0  
UniRef90\_W6ET11  
UniRef90\_UPI0004410230  
UniRef90\_R4L8Q1  
UniRef90\_F1Z4V8  
UniRef90\_A5CFR4  
UniRef90\_W0JYS5  
UniRef90\_UPI0003B470F7  
UniRef90\_A0A023D1A3  
UniRef90\_UPI0003B5FD9D  
UniRef90\_UPI00037E13A8  
UniRef90\_UPI000463CB98  
UniRef90\_UPI0001FFE571  
UniRef90\_UPI0004651470  
UniRef90\_U7FTX7  
UniRef90\_W6R1K0  
UniRef90\_B3QXT0  
UniRef90\_K8EBV7  
UniRef90\_Q0BVI0  
UniRef90\_H5UTP9  
UniRef90\_M1Z1K2  
UniRef90\_K0EVK2  
UniRef90\_M0D309  
UniRef90\_K7SCK6

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