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

QUERY UniRef90_A0A037XPI9 UniRef90_A0A024J201 UniRef90_F7UHC6 UniRef90_F7UHX0 UniRef90_W0NMS3 UniRef90_F7XEU8 UniRef90_UPI00047E14B8 UniRef90_J6DGZ1 UniRef90_A7IQ01 UniRef90_UPI00035D9C93 UniRef90_Q93UX7 UniRef90_R4IL00 UniRef90_UPI000374D7FA UniRef90_L0LT34 UniRef90_A6UKH6 UniRef90_F8BQU3 UniRef90_S3H410 UniRef90_UPI0004796643 UniRef90_W6W4S7 UniRef90_G6YK12 UniRef90_X5WU48 UniRef90_U1X165 UniRef90_UPI00035D0ED0 UniRef90_Q1QF64 UniRef90_X6J8N1 UniRef90_UPI00046F3590 UniRef90_X6FT90 UniRef90_A8W0A8 UniRef90_E8TIM2 UniRef90_A0A037XQU1 UniRef90_J3CHF8 UniRef90_P55629 UniRef90_M5F8H5 UniRef90_W0WRJ7 UniRef90_X5Y563 UniRef90_X6C9E2 UniRef90_UPI0002D9B234 UniRef90_UPI000365BCA9 UniRef90_S5SDD9 UniRef90_I2QDW3 UniRef90_D6V522 UniRef90_X6BAE7 UniRef90_UPI00046484D3 UniRef90_UPI00045E9761 UniRef90_X5VR74 UniRef90_H0HXG7 UniRef90_UPI000372A6C9 UniRef90_X5V8C7 UniRef90_UPI00036EED72 UniRef90_X5PSB2 UniRef90_UPI000362B6DB UniRef90_UPI0004639234 UniRef90_UPI0004652B04 UniRef90_L0LQU5 UniRef90_UPI00030A26F3 UniRef90_Q2K2Q0 UniRef90_UPI000479CE8F UniRef90_C6B8S2 UniRef90_UPI00041F58C6 UniRef90_R8YJL3 UniRef90_UPI00047D62D2 UniRef90_E6QPQ1 UniRef90_L0LUJ6 UniRef90_UPI0004679B3C UniRef90_G3IU59 UniRef90_X6K8W2 UniRef90_UPI0003B5ECD6 UniRef90_E8TFK4 UniRef90_W6RHC3 UniRef90_N8S6V5 UniRef90_I5BSR1 UniRef90_Q98A91 UniRef90_L0KGB5 UniRef90_I4EB51 UniRef90_UPI000360A1F3 UniRef90_UPI000378000E UniRef90_I2QVL6 UniRef90_A5EUQ4 UniRef90_UPI00037576DF UniRef90_UPI000468FCA3 UniRef90_B9K1Q2 UniRef90_UPI00036683AB UniRef90_UPI000463EC8F UniRef90_E6VLG9 UniRef90_M4UN09 UniRef90_D6CSX7 UniRef90_J5M7U3 UniRef90_UPI00047B6F15 UniRef90_UPI00037ED77C UniRef90_G9AE16 UniRef90_UPI00036A6C48

90 100 110 120

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

QUERY	N	G	F	M	S	M	F	T	130	M	A	S	D	K	P	V	I	D	140	R	E	I	D	A	V	A	A	A	150	G	Q	L	H	A	R	R	S	F				
UniRef90_A0A037XPI9	N	G	S	T	S	M	F	T	L	A	S	D	K	P	V	I	D	L	R	R	E	I	D	A	V	A	A	A	A	T	G	Q	L	H	A	R	R	S	F			
UniRef90_A0A024J201	N	G	S	M	S	M	F	T	L	A	S	E	K	L	Q	A	I	D	L	D	R	E	I	D	A	V	A	A	A	A	V	A	Q	L	H	A	R	R	S	F		
UniRef90_F7UHC6	H	G	S	M	A	M	F	T	L	A	S	A	K	L	Q	A	I	D	L	D	R	E	I	D	A	V	A	A	A	A	V	A	Q	L	H	A	R	R	S	F		
UniRef90_F7UHX0	N	G	A	T	S	M	L	T	F	A	S	A	K	T	A	N	L	S	T	E	N	D	I	D	A	V	A	A	A	A	V	A	Q	L	H	A	R	R	S	F		
UniRef90_W0NMS3	N	G	S	L	S	M	F	T	L	A	S	A	K	T	A	N	L	S	T	E	N	D	I	D	A	V	A	A	A	A	V	A	Q	L	H	A	R	R	S	F		
UniRef90_F7XEU8	F	R	R	I	A	M	L	T	L	A	S	H	K	C	L	S	V	N	L	N	R	D	L	D	A	V	A	A	A	A	V	A	Q	L	H	A	R	R	S	F		
UniRef90_UPI00047E14B8	Y	G	A	L	A	L	T	F	L	A	S	E	K	P	E	S	E	L	K	H	G	M	D	P	V	A	A	A	A	V	A	Q	L	H	A	R	R	S	F			
UniRef90_J6DGZ1	H	G	A	L	A	L	E	F	T	L	A	S	K	L	T	S	V	N	L	R	D	D	D	P	V	A	A	A	A	V	A	Q	L	H	A	R	R	S	F			
UniRef90_A7IQ01	F	G	H	L	S	M	L	T	L	A	S	H	K	C	L	S	V	N	L	E	T	D	I	D	A	V	A	A	A	V	A	Q	L	H	A	R	R	S	F			
UniRef90_UPI00035D9C93	N	R	G	T	A	V	L	T	M	A	S	S	K	P	K	V	A	I	D	E	K	L	D	A	V	M	A	A	S	V	A	Q	L	H	A	R	R	S	F			
UniRef90_Q93UX7	F	G	S	T	M	M	L	T	F	A	S	A	P	A	A	D	V	S	D	M	E	I	D	D	A	V	K	A	V	R	A	V	A	Q	L	H	A	R	R	S	F	
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	50										60										70										80														
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UniRef90_K2PX00	I	I	P	L	P	P	Y	F	M	L	N	A	W	P	E	G	W	F	E	R	Y	V	E	E	N	Y	V	H	V	I	D	D	P	V	V	I	A	T	C	P	D	R	Q		
UniRef90_G2TDC4	V	R	A	R	L	P	Y	V	L	H	N	Y	K	D	S	W	S	E	H	Y	F	R	E	G	F	L	E	L	I	D	D	P	V	L	A	T	C	P	D	R	Q				
UniRef90_A0A013WPR8	G	P	F	H	E	D	T	M	V	I	T	S	Y	P	E	G	W	L	E	R	S	L	L	R	K	N	Y	Y	V	D	D	P	V	H	A	A	S	T	K	T	V	T			
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UniRef90_E8TGP0	L	L	P	S	G	K	P	K	L	I	S	N	Y	P	P	R	D	W	A	M	Q	Y	L	E	N	R	Y	E	K	L	D	D	P	V	V	L	R	A	R	N	G	G	R		
UniRef90_H5Y7F0	L	L	T	D	T	G	P	A	R	L	V	N	F	P	S	D	W	C	E	R	Y	S	R	N	A	L	D	D	D	D	D	P	V	V	R	R	T	T	M	L	S	A			
UniRef90_J0TZK0	F	T	Q	S	S	L	M	V	D	G	Y	P	P	S	G	W	T	D	H	Y	M	A	Q	A	H	H	A	H	D	D	D	P	V	I	R	Y	C	S	R	N	I	L			
UniRef90_X6CQP7	L	L	P	C	G	E	P	K	L	I	S	N	Y	P	P	T	W	A	H	Y	L	Q	N	Q	Y	Q	K	V	D	D	D	P	V	I	M	R	A	R	C	G	G	C			
UniRef90_R9PTR6	L	L	S	A	P	R	T	E	M	L	N	N	Y	P	T	I	W	H	T	Y	Q	E	K	N	Y	L	A	V	I	I	D	D	P	T	V	H	H	G	M	T	S	O	L		
UniRef90_E3HPS4	F	T	N	P	Q	F	V	M	I	S	D	Y	P	I	A	W	Q	E	R	Y	A	Q	A	R	Y	L	E	I	I	D	D	P	T	V	K	H	C	S	R	S	S	I			
UniRef90_UPI00036A694B	L	L	R	A	A	T	T	F	A	L	S	N	Y	P	A	E	W	S	L	Y	F	D	R	S	Y	M	L	V	D	D	D	P	I	I	T	M	G	K	R	L	M	Q			
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L A H E P L F V W H R W P D G W L P R Y L E N D Y F R L D P V V V S F V R A T A R
T S R H R D V H L I N N Y P S K E W N L Q Y N K E N Y R N I D P V V I A H C N H S V L
U P I 0 0 0 3 5 D 3 C 3 8 T S R H H K I N L N N Y P S G W N A K Y E K E H F S E I D P I L A H C N H S E W
S E F G T S V L I H D Y P A S W A D L Y I G F N L A E T D P I R R A A E R S L L
R P P A A A L L H N Y P P A W A Q R F R A A G H F R L D P V L Q L A E R S P A
L P L P H F F V W Q W P K A W F E R Y L K L D Y F H A D P V A N L V R Q T G Q
T A S K D L Y L H S T Y P Q A W R E H Y E K N N L R A K D P T V V H C F K S M S
I G S P I R V I S N Y P E K W L E F Y F K E S E Q Q N D P V V V Y I F S K Q S
L A D P D I L I E N L P A D W C D F Y F R R G F Q R I D P I T A Y C F S N T V
T S P R Q V T Q I N N Y P T Q W N E Q Y E Q L H Y S E V D P V I A H C N H S M M
L N K K N P L I T S N Y P S Q W I D I Y K E R N Y Q H L D P V V V H C A L R V S
V S P S D V L L I S T Y P D E W V R L Y H E G Q F Q L T D P V V L T A F R R T S
V S A G E Q Y G C G T Y D L E W V N H Y I E K G Y L R I D P V V I Q G C Y Q R F H
V S A G D H Y Y G T Y S E A W T Q Q Y Q E K N Y T R I D P V V V I G C Y Q R F H
V N S G D Q Y G C G T Y S D A W V A R Y L E K D Y L K I D P V V V Y G C Y Q R F H
T H P G D V Q G Y A N Y P D E W K L H Y G S Q G Y H H L D P T L Y Q A A L S I A
P E L S G H V Y F H S Y P E D W W K Y Y S E N D C A V Y D P V V M R A G I R D R
V S A G D Q Y G C G T Y S V A W Q R Y Y I D Q N Y L R I D P V V V I G C F O R F H
N N E T K P I Q I N N Y P N G W N L Y Q Q A H F F E V D P V V V A H C K R C V L
M N P S Q V V I S N Y P Q E W V N T Y K E N N Y Q H I D P V V L L T A I N K V S
Y S P A S E R L L G D W N M A W V Q R Y E R E N G Y V D I D P V A K R V I N S V L
F T R P T T E V I G S Y P D D W L E H Y Q A Q D Y A R V D P S I L N G L R S S D
Q T S P T L P T I L T Y P K E W M S H Y C L K N G Y D R L A P S I R M G H S Q S S
F T R P K L T L Q S T Y P Q A W M S H Y Q A E N Y F A I D P V L R R E N F L R G
L P R P D A F I R T N Y S A A W R Q T Y N D H G M A Y F D P T V T H C T T R S S
F T R P K Y T L F T T Y P R E E W A Q H Y Q A E N Y F A I D P V V L N P N N L H L G
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M N K K H P A I I S N Y P L D W V R E Y Q K N S Y H L T I D P V I L T A R D K I S
V S A G D H Y H F G T Y S Q G W V E R Y Q E K A Y V R V D P V I I G C Y Q R F H
S S A S Q Y V L I S N Y P R S W E Q Y V S E N Y F S Q D P T V V A H G L T R S I
F T R P K L S L Q S S Y P Q K W L D C Y V S E N Y F A V I D P V L K Q A S F I R G
S P K T R P V I L S N Y P D S W L K S Y I A S N Y H L I D P I I K H A W S I T
K P A E V L I Y S D Y P D A W R T R Y D A E S Y A A V D P V V V H C L N A N R
L N N S K I S I Y S N Y P A E W V E T Y R K N S L Y K S D P V M A N A A I T A T
T N Q F N T V R H N N Y P A D W N Q E Y E R K N L R S I D P V V V A H C N H S M L
I P R P D V V L H S N H A S S W R E T Y D E R A F V R I D P T V V I H C L R S Q T A
V P S P Q V V L M S R W P A A W S R R Y S S K G Y L T E D P T I Q R V R S S I E
H G K P Q A F R L L N Y P E A W I E F Y D R N G F F G K D F V I R A S Q R T Q N
L S K K N P S I S N Y P Q E W V E T Y K E N N Y Q H I D P V V I L T A I N K I S
M S P G S V L G Y A N Y P D E W K M H Y M R M N L H R I D P T I H Q S A R S I A
S I P S K W R L F G A F P D G W E Q R Y L A A N Y A E I D P L L R R G V N S I D
V T D H P U P I 0 0 0 4 1 D 6 0 D D V T D H P U P I 0 0 0 4 1 D 6 0 D D V T D H P U P I 0 0 0 4 1 D 6 0 D D
V P A P H T I L A N G W P S E W F D L Y A R E Q F H R Y D P I P R H C L S T L N
C V P S R W L R F E T L P E G W R E H Y A A K K Y A E I D P I L K R G M N S I D A
I N K K H P A I I S N Y P L D W W K K Y K K N S Y H L I D P V I L T A K M K V A
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V T N P R Q V M L I N N Y P R T W Q M R Y E E A G Y L R L D P T V V L H G R T S Q V
I P N S Q V A M A K R W P D E W F K L Y T Q N N Y H R D D P V V V R H L R K S F N
F T R P K V A F Y T N Y P E A W V S Y Y Q A K N F L A I D P V V L N P E N F S Q G
V S K P A V A I E D T Y P D G W M A H Y Q A E N Y I A I D P T V V R D S G A L S S N
A P H T A A D I V S N F P D F E W R R R Y D A E N Y A A I D P T V V S H S L S S L
I I K P D V S I I D N Y P E K W R K Y Y D D A G L L E Y D P V V D Y S K S H H S
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L P N P D M V L A K R W P A G W F N L Y T Q N N Y D R F D P V V R L C Q R Q S V N
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M N P S E V V I I S N Y P K E W V D T Y L E N N Y Q H I D P V V I L T A L N K I S
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	130	140	150	160
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UniRef90_K0J3R4	C G I A T F C S F A S A E R V D A K R Y V P L V E			Y F G Y H H L A L
UniRef90_C5B5L7	Y N S F C S L F W K E D E R L P E V I S R R Y G H Y L H M L A M L			
UniRef90_J2X4X6	R G G F A S L T G L R T S S S S V L C D A R R T L A D F S L I S H A			
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UniRef90_I0QYPO	S N N L S L S L A Q D K S H S D F S F D A H K E H L Q M L L L K V H D K L			
UniRef90_C4S9A2	H S N L V V L S L S A D K N I D V E I I D K G N I Q L L L M I T H E K M T S			
UniRef90_B9K3B4	N S W Q S V I S L A T D D K G L A K E N I G D L Y L L S S Y C A M T A			
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UniRef90_B1VD86	N S Q S D P L V L N S Y S	A D W D R A Y R D N G F L D V D	P C L P H A R T S N T	
UniRef90_UPI00036274EE	T N E P S N R I T T Y P	L D W L K C Y E D E N F L I D	P I V K H C R R H F M	
UniRef90_F2ZEHO	V P Y P S L L K L R N L S	D M H Q F Y W F N H G Y F R I	P V Q Q V I A L R T S T	
UniRef90_W6RR05	L S H P S V F K V R N A P	A D M Q A F W C E R G Y Y Q L D	P V Q Q C A S R R A A	
UniRef90_U0JJ25	V P D T G C H L M T T W P	S D F L R R Y D N A G L I D G S	P V T Q R L R R S T I	
UniRef90_UPI0003FEEDC5	M P P G K P M L I S N Y P	A L W R A R Y L E N R Y Q D V D	P V L S R A S Y G K A	
UniRef90_X6CBK2	I P A S K H I R L S N L P	S E Y I E E Y D S L N L S N S	S V F A M L R Q S T A	
UniRef90_A9D281	L A S T G Q I L A Q H L P	E G W I E V Y R A K K Y N L V D	P V R K V I G M V H K	
UniRef90_UPI0004676981	L N E G K F Q L V N T Y P	D E W N D L Y R N E G F F Q V D	P V V R H G E L S S S	
UniRef90_K1ZVS2	M P T P S S F T I H N W P	D S W Q Q T Y L S R G F G A V D	P V P R A V M V C A M	
UniRef90_B3QDU7	I P T P G T V V L H Q W P	D V W S R R Y F S K G Y I F T D	P A I R R V T S S M V	
UniRef90_J2HDW5	D D R P R S L L L H D Y P	D E W A E F Y T G F S L S R A D	P I R R G A E C S F T	
UniRef90_B0M190	L N R K E N F I H V G Y P	D E W A N F Y T E N N Y I V S D	P I I K K S R F M S H	
UniRef90_W6RMV6	I S H R A P F V R T T Y P	D A W V S R Y L L N G Y V K I D	P V V R E G F L R Q L	
UniRef90_L0NBK7	M P G P T S L V I T N W P	A E L I T H F D R E G L L S S S	P I L K R L R E S F I	
UniRef90_UPI00037B03E1	V S C R E P C N I S N Y S	D W L D R Y V A A G H Y D H D	P V C A M A R I D D R	
UniRef90_UPI00046F64F4	A G S P H N F L S T T Y P	R A W Q E R Y T H G Y L H A D	P V L K R S M E S G L	
UniRef90_U4HSS9	K V N P T D M I N T Y S	D Q W D I L Y K K N F L S K D	P I V L E G S A T S N	
UniRef90_UPI0003F6F842	P S F R G P F I T L T Y S	K E W V E H Y R T Q E Y M F I D	P A W T I A A R S L N	
UniRef90_E8T7H0	V P L G P M V E L N G W P	E G W F K R Y V E A E H A A V D	G V C I Y S A K T L K	
UniRef90_A9D313	A Q T D S A Y V R T T Y S	A E W V S R Y L Q R N Y V D I D	P V L K E G V I Q R L	
UniRef90_W8FIU1	L A S T G Q I L A Q H L P	E G W I E V Y R A K K Y N L V D	P V R K V I G M V H K	
UniRef90_L0NM01	R A K P E H V L A A R M P	E N W R Q V Y V A K R Y G L V D	P V A R M L L V A Q R	
UniRef90_B2T005	L S N P R R T A L E H Y P	R E W L Q Y Y E G R D Y A A T D	P V H R A A F I Q S T	
UniRef90_UPI000365265B	V P A A E S V V M T N W P	K D L L S S Y D A S M M T S S	P V I E R L R R S T I	
UniRef90_UPI00029A032F	V P T P S V R L R Q T P P	R D W Q D L W C S D G F Y Q I D	P V Q Q L A V S S I A	
UniRef90_E2XNL1	V P T P S V L E L R N T P	P D W H A L W C G K G F Y Q I D	P V Q H L A L S T V S	
UniRef90_AA017HRH5	L V N A L P P A W I E R Y T	R E G Y M M S D P V L R	W I L D G E G	
UniRef90_X5G5B4	M N K K D P S I N N S P	E W F D I Y L D R K Y Q F I D	P V I I R A L R C V E	
UniRef90_V6URW0	V P T P S V R L R Q T P	K D W Q D L W C S E G F Y Q I D	P V Q Q V A V S S I A	
UniRef90_F3LDD0	L S D H D E L T V N E L N	G W E K H Y L E Q N Y I A I D	L A P Q I T Y S K A G	
UniRef90_C4RAJ6	G R R R E I T Y F S N Y S	K E W Q D E Y E K L G G S Q N D	I D T L H C I S S T E	
UniRef90_O54452	A T D S N P L L M L T Y P	P E W F K Q Y R D R D Y F S I D	P V V R L G R R G F L	
UniRef90_A6Y7E7	L P S V F L Q R N A P	D D M H N V W C E H G Y Y Q N D	P V Q Q R A T R R T T	
UniRef90_UPI00039BE4DB	I G F A F P M E E T N L P	P A W V T H Y T K Q R F M L Y D	P A I R W A Y S N V G	
UniRef90_J2B3S9	L P P Q G N T I T S W P	A E L L S I Y D Q E G L M V N S	P V L R R L R T S T L	
UniRef90_UPI0003B73A34	G A S P D G V L L H D Y P	D A W A K Y V A F D L A G R D	P V R R A C D K S L T	
UniRef90_Q2K2Q3	A R T D A P F V R T T Y P	D S W V S R Y L L N D Y I N V D	P I I R E G F S R Q L	
UniRef90_A1JKL4	M N K R D F T V I S N T	G N W F E F Y T Q N N F Q F T D	P V L L M A A H C I M	
UniRef90_F0L770	L S A S Q C T I I T S W P	A E L L Q R Y D E E G M L Q R S	L V M A Q L K K S T T	
UniRef90_I0HS16	V K R P S V A R I G N L P	R S F Q E A S M D E A D S R R D	P V L Q R L L I T A S L	
UniRef90_UPI00037B3956	L V H D Y P E E W L R R Y L	C N G Y F R I D P V V Q	Q Y A A S L R	
UniRef90_Q8L2C1	K P K S K P S I V S N F P	H W K N K Y E K L S F H I D	P I M V Y A Q K S T L	
UniRef90_UPI00047723F7	L P S Q S N T V I T N W P	A E L L S A Y D H E A L L I T N S	P V M G K L R S S T V	
UniRef90_G1Y1W2	V R R P V P F Y Q T S L	R K D D L E T Y L A E D L L G Y D	P V V N R A A T T N A	
UniRef90_X5MDM4	R A N E H L V E S T S F S	D D W L S A Y Y G L L H K V D	P V V A H S I V H P M	
UniRef90_C8S4Y9	I R F T S P L M F Q T Y D	Q A W V D H Y T E N G F V L R D	P M I A W G F S T T G	
UniRef90_A9YZX0	M N K K D P S I N N S P	E W F D I Y L E R K Y Q F I D	P V I I R A L R C V E	
UniRef90_B4RHX3	I A D P L R V T F G R T H	A A W Q A H Y E A Q G H A A R D	P I V R E S L R S T E	
UniRef90_UPI000248A7C7	H E R Q D R V D L K D Y P	S A I T E R L F G Q R R Y R R D	P V I R A C V F A D S	
UniRef90_UPI000366C5FB	T P A P S V L E L R N V D	E S M R D Y W V G Q Q Y F R Y D	P V Q V K V A L G T T R	
UniRef90_F7ZB17	L H Q G K S R L I C T S F	D E W I A R Y L Q S N Y Q Y V D	P V M S K A S I S D D	
UniRef90_H4F1H3	I P Y P S L L K L R N L S	E D M R E Y W F E R E Y F R I D	P V Q L L A M R T T T	
UniRef90_UPI000312A246	V P T P S V L Q V R N T P	S D W H S L W C E Q G F Y Q I D	P V Q Q L A L N T V S	
UniRef90_J3GJ32	T S N S T V N L N N F P	H E W N I Q S E K N N A T Q T D	P V V A H C N H S L L	
UniRef90_UPI000468C40C	L S K S N M S I A T N Y P	S G W V K Y Y Q D N N L Q F T D	P V V I T A L N R L T	
UniRef90_B7T9W6	H L I T S G Y P E Q Y R	H L Y N D K G F L Y R D	P S V V H C Q T R T D	
UniRef90_AA023UNY1	M N K R N P A N F S N R M	D W F E L Y T K S N F Q F I D	P V L I T A S N R I T	
UniRef90_M2V7N7	L G K G T P V I V S N F D	T C W Q A L Y R E H R Y Q C I D	P F M R R A S R C A L	
UniRef90_A5PE73	P S R D S P L T M R G Y P	E K F I E T Y Q R E K L Y K I D	P F P A H V T R H K S	
UniRef90_UPI00046897F1	L T V A D P Y V R T T Y P	H T W V S H Y L L N G H V K I D	P V L R E G L V R Q M	
UniRef90_Q4K5W3	V P F D P S A M V C N T	P R D W L E L W C D Q G Y Y H I D	P V Q Q V I A L D S S S	
UniRef90_I5BI26	L D Y P A A V T D R L V E Q	G L F R R D P V V R A C L H A V T		
UniRef90_H4F123	M P G A S S S I T N W P	S D L L S E F D Q G A L L S G S	P V L A A V L R A S I	
UniRef90_Q2CHR6	P L J E E V N R L P	P E W V D H Y T A K G L M L A D	P A M R W I Y A N T G	
UniRef90_J2KXA1	A Q T D A P F V R T T Y P	D A W V S R Y L L N S Y V K V D	P I V K Q G F E R Q L	
UniRef90_J1SYS2	L T V A D P M A S R W P	D R W S H V Y T V K Y V L S V D	P T V R Y L A H A Q R	
UniRef90_V9WPV9	E S G Q P T E H I C T Y P	Q A W Q N H Y W E H N L I F D D	P V I S F G V R N L G	
UniRef90_E0WRX8	M N K T E M R V I S N R P	D W F E V Y L R D R Y Q H I D	P V I T A L N R I T	
UniRef90_M3IX85	L T V A D P Y V R T T Y P	H T W V S H Y L L N G H V K I D	P V L R E G L V R Q I	
UniRef90_UPI0003B694AB	L P P Q S A T V I T S W P	A E L L A L Y D Q E N L L A S S	P V I R R L R T S S V	
UniRef90_Q11FX6	I P P S S Y V L L D G W P	E E W K R R Y F S L G Y L H R D	P A L H Q V L R R G C P	
UniRef90_C6B9S9	V P Y P S L L K L R N L S	D D M H D Y W F N R G Y F R I D	P V Q Q V I A L R T S A	
UniRef90_A8LK93	T R R H D A I L L S L P	Q G Y V E R Y L R E G H Y R N I P	M I R W A E K N D G	

	90	100	110	120
UniRef90_UPI00037D065D	G F T W Q A V R G D R A G V P E A G T F F S D A A R F G L S D G V A F P L R S L			
UniRef90_UPI00039F1D24	P V V W T E K L Y Q Q N K I L W Q E M R R E D G H S V G I T Q S C W G P			
UniRef90_UPI0003B71FDF	P Q F W F E V E Q Q T T P I T R Y S Q R L F D L L Q H H G F V D G L T T P I F G P			
UniRef90_UPI00046AC0BC	P F I W S Y K P K A P T V L R Y Q V M G Q Q H D L L Q H H Q M A H D G M T V P I H L P			
UniRef90_D2TJP9	D F Y W E N K V L L S G G Y N L T R T F N E S S E H N I Y Q G H T F P L H D Y			
UniRef90_UPI00035F9901	P L V W D A E T L Y G Y D D D A D M S A P A R A S G T L S G V Y C P L H G L			
UniRef90_W0N464	P F F Y D M T R E N W S R D D D G K S V L V A A R F R M M R G A Y F P T H E P			
UniRef90_A3SSF6	P F F W R D L P Q L T T L T E K Q K A Y L N R A R E F G F A D G L V C Q V F G P			
UniRef90_K9H3W8	A F R W N D I L A D E S L S A A Q R A M M A D A R T Y G L H D G F C V P A R A A			
UniRef90_UPI0004793D53	P F V W S R T P L R S R I L G E E H Q C V T H Y M R E N G M P C G A T V P L H L P			
UniRef90_UPI000475EBAF	P F L W S D I T L P A K A G G R A L R T M E A A R D H H F T N G V T V P Y H D H			
UniRef90_R7X4W2	P V E W M P A L Y T S P E A L L Q L L H D Q A A G L R S G I T Y P V F T P			
UniRef90_W3RT95	P F T W K E A Y V A S P Q P D D V Y L I G G E A S E F G L K D G Y V V P I Y T L			
UniRef90_K2GQY4	P L V W H D A D D J A T D H L A A Q V L Q G Y R D A G L G A A C T L P L K A P			
UniRef90_C3KBP0	P L F W G R A R L K A R G C T N R F W K E R E G Y G L R G V S I P L R			
UniRef90_UPI000478X9	P Q Y W S L D D K D I N G C G S L L E V S T L L R G M G I T S G L L V P V N G M			
UniRef90_C4RX87	P F S W D E N T M I N S G L K L P K I F D V A K E Y D V I N G H T F V L H D Q			
UniRef90_B1VD86	P L V W S P D L F A T T P Q K S M Y E E A S A H G L R A G V T L P L H G P			
UniRef90_UPI00036274EE	P F T W S D L P R R G R R K P R A Q Q L M D A A Q D H D Y R N G L V I P F H Y R			
UniRef90_F2ZEHO	P L F W G G A R R R A R G R S K E F W R A R E R H H G L S Q G V S I P L R C R			
UniRef90_W6RR05	P F F W N D T L I R R F M T E D T A P V I A R Y L S E R D M S T G V T V P V H M P			
UniRef90_H0JJ25	P F V W S R S A L R E Y L G D S H R P V T C Y V R S E R D M S T G V T V P L H L P			
UniRef90_UPI0003FEEDC5	P F T Y D A Y Q L A R R R L D G K G D A A V C V F E Y N M P R G V Y L P V H D A			
UniRef90_X6CBK2	P F R W G			
UniRef90_A9D281	P M R F L D L A V K E R P T E E Q Q V M R A V F E K H N M T M G V Y F P V H G S			
UniRef90_F0L457	P F Q W K E A L L E R A M H R K R A N V F F H D A G R Y G L Q G G Y A F P V H G R			
UniRef90_UPI0004676981	P F V W T S V K K G S K K L W E S A A Q V F I G L D V G W S K S S F H P			
UniRef90_K1ZVS2	P L T V A E L R A G K A G F P E S D E Y F A A E A M G R G A G L V P I A G P			
UniRef90_B3QDU7	P F S W T E L W D H D S P A G H R L L G E A A E F G L K E G F T V P M V T L			
UniRef90_J2HDW5	G F A W Q R I G D I P L T A S D W R M L A V G R D N F G I D D G Y T V P R H L P			
UniRef90_B0M190	P Y F W H E I K N I N S K A E K K I R D V S E F G I K K G L T I P V H T H			
UniRef90_W6RMV6	P F D W S E V E P T L E A Y A L L V D A Q K H G L G N G Y S I P V A D K			
UniRef90_L0NBK7	P T Q Y D L E E V N L V R G N T V S T D L F A P Y R L R G A Y F P V H D S			
UniRef90_UPI00037B03E1	P F T W S E A V E R F S P R X S R Q V M E E A R E F R S X D D G X G F S X X R P			
UniRef90_UPI00046F64F4	P F E W R D L E V E K G T L A D T I L Q E A Q D F T L G H A L T L P L A G V			
UniRef90_U4HSS9	P I D W E S L K P T H E I F E I A N D F N L N I G W S K P S H K P			
UniRef90_UPI0003F6F842	P I D W A R L P R T D K K V Q R I F G E A T D A G V G O G L T I P V R G P			
UniRef90_E8T7H0	P F L W A D V P A K W S D T K G S R R V A G E A T E F G I S S G F A V P M L S V			
UniRef90_A9D313	P F D W S E L E M S A A V L P L F E D A L A H G L G S G Y S I P I L D K			
UniRef90_W8FUI1	P F Q W K E A L E R A M H R K R A N V F F H D A G R Y G L G S G Y S I P V H G P			
UniRef90_L0NM01	P F R M R D A A S L M R N D P R L Q R L T Q D A M R H G I L D G Y V F P I H G R			
UniRef90_B2T005	P Y R W H D I A G L S K A E R R L L D E A K E A G L P G G V S I P V H Q A			
UniRef90_UPI000365265B	P F T Y D T A L E S H R R S K A E R N A V L N L F E R L H L G R G V S I P V H D V			
UniRef90_UPI00029A032F	P F A W S Y L P K G E T I D R R H A P V V G Y L L D A Q L A C G V T V P I H L P			
UniRef90_E2XNL1	P F V W S Y E A K T D T P D P C H A P V S S Y L H D Q Q L T C G V S V P I H L P			
UniRef90_A0A017HRH5	L C R W S A V P F D P R G I M A A R L H G L V H G V A S L R D P			
UniRef90_X5G5B4	D F F W E S D V I L S D G Y N L T R I F N E S V Q Y D I Y Q G Q T F P L H D Y			
UniRef90_V6URW0	P F V W S E T L L Q R H I D R R H A P V V G Y L H D A Q L T C G V T V P I H L P			
UniRef90_F3LDD0	F F T W H D M K Q Q A L S R E Q S A I F N E A E D F K L Y S G V N V S I H N A			
UniRef90_C4RAJ6	D Q I F F S P E T R E N L T P E Q K A L D E F A Q R S G I K N G I S F P L R G P			
UniRef90_O54452	P V E W S A S G W D S G R A Y G F F K E A M A F G V R Q G V T L P V R G P			
UniRef90_A6Y7E7	P F V W S Y R T E G R T E G R Q H R Q V T R Y L C D S D M G T G V T V P L H L P			
UniRef90_UPI00039BE4DB	S I R W S E I T L D D P R M D G K T G V V A L F E R F K M M R C A Y F P T H E P			
UniRef90_J2B3S9	P F F Y D T S R T N W P R D D G K T G V V A L F E R F K M M R C A Y F P T H E P			
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UniRef90_Q2K2Q3	P F D W R E I D I T E T A Q E F M V D A E L H G I T N G V S V P I V D R			
UniRef90_A1JKL4	P F S W D E K I T F R W P K L F E D M A K E Y D V F N G Y T F V L H D Q			
UniRef90_F0L770	P F S V S D F L V S G D E N A P K K P V I G L F E R F D M I N S W F P V H D I			
UniRef90_I0HS16	P F I Y D Q E T Y V H A G A G D L W E T Q A F H G F R T G I S M S L H M P			
UniRef90_UPI00037B3956	M V S W S S L Q G P Q S K Q V R D F I H D A R D F G M V H G L T S G L H D C			
UniRef90_Q8L2C1	P F H W V D V G S K P F L D V R N V R V S K H V I P G V L N G Y T I P L H D H			
UniRef90_UPI00047723F7	P F F N D S K A K L D R S D G K S G I V M A L F E R F R M M R C A Y F P T H D P			
UniRef90_G1Y1W2	P F T W A D V P E G R G A R N R A R Q V M D I A R D F G Y R Q G F V L P L H A V			
UniRef90_X5MDM4	P F I W S D C P V E T P E Q R A F M A D A D A G L K H G V S A P L I V G			
UniRef90_C8S4Y9	S I R W S D E G L L D P F H L F D E A R K F G L C Y G V T V A C G P			
UniRef90_A9YZX0	D F F W E N N V L S G G Y N L T R I F N E S F Q Y N I F Q G Q T F P L H D Y			
UniRef90_B4RHX3	P L F W S D L P A R R A L K G P D E A R V M E A R S F G L N E G L M T P L H H V			
UniRef90_UPI000248A7C7	A F L W S D L P R I I Q L D G Q D R A S L E F G L A E G L N E G I T V P C I H R L			
UniRef90_UPI000366C5FB	P F V W N E T L I R A F M N E D S A P V J A D F L A A R G M S A G V T V P V H M P			
UniRef90_F7ZB17	W F L Y S D L A G T A P A V E C F W R D A E K H R I R N G V C F P M T R S			
UniRef90_H4F1H3	P F F W N Y D H K A G T Q D E R S A P V S R Y L H E R N M S C G V T V P V H L P			
UniRef90_UPI000312A246	P F V W S E E A L Q K V I E Q R H S P V T S Y L Q D R Q M T C G V S V P I H L P			
UniRef90_J3GJ32	P V L W S E E L F S K T P W L W Q L L Q Q G L Q H G V S Q A I H D E			
UniRef90_UPI000468C40C	P F C W G E Q I S P S T I F E N A K I Y S I L S G Y T F V L H D Y			
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	90	100	110	120
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UniRef90_A3V9A2	C I R W S E I T L D D D P	K R V L A Q A R S F G M R Y G L T V S V F R D A		
UniRef90_H2IQY5	P F L W N K E G N E N D N	I F E Q S E K Y E I S S G L T C V S V A H R S		
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UniRef90_S6IQW4	P F S W D A V Q S A S C E K S R E F F R R S S Q A H R I C G S G A T F L H D D P			
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UniRef90_E6WA98	S F I W D A N L K I N S H W P M D K V F I W K S Y S F L C G M T F V L H D Y			
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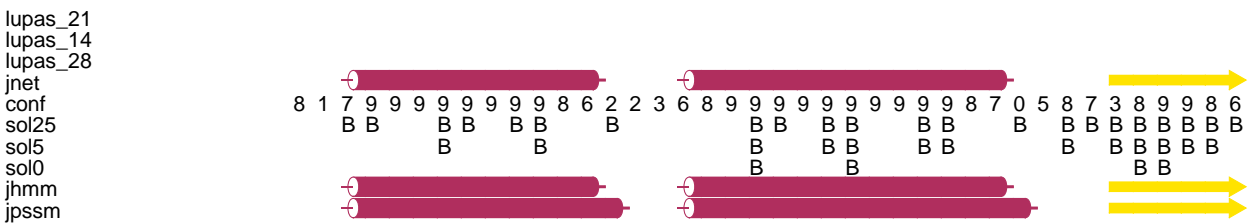
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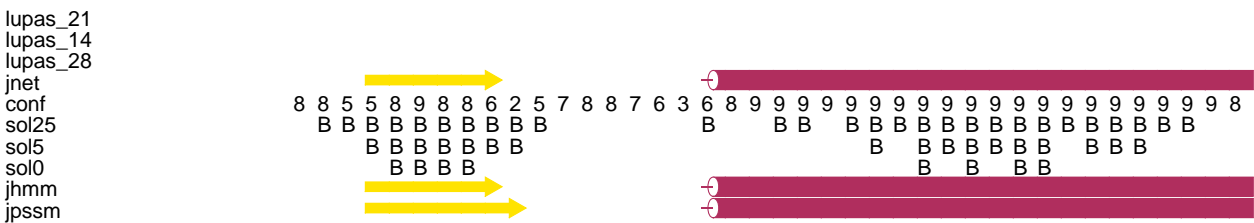
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