

gi|30089935|ref|NP\_060340.2| M C A R M A G R I T A A P R G P V G P W L C L L V A L -- A L D V V R V D C G A P L D P V L P A A L E L L D A P E H F R V Q V G H Y P P A N S S L S R S E T F L L Q P W P R A Q P L L R A S Y P P F A T Q V V P P R V T E P H Q R P V P W D V R A V S V E A A V T P A E P H A R V L F H L K G 148  
gi|114637821|ref|XP\_522023.2| M C A R M A G R I T A A P R G P V G P W L C L L V A L -- A L D V V R V D C G A P L D P V L P A A L E L L D A P E H F R V Q V G H Y P P A N S S L S R S E T F L L Q P W P R A Q P L L R A S Y P P F A T Q V V P P R V T E P H Q R P V P W D V R A V S V E A A V T P A E P H A R V L F H L K G 148  
gi|73983873|ref|XP\_855179.1| -----M G R A G A A P R G P G P W F C L L L A L A L A L D V E R V D C D O P L N T I Y L P A T L E L L D A P E H F R V Q V G H Y P P A N S S L S R S E T F L L Q P W P R A Q P L L R A S Y P P F A T Q ----- 101  
gi|156121119|ref|NP\_001095707.1| M C A W M A G R T A A A P R G P R G P W L C L L V A F -- A L D I V R V D C D O P L D P V L P A A L G L L D A P E H F R V Q V G R Y P P A N S S L G S R S E T F L L Q P W P R A Q P L L R A S Y P P F A T Q V V P P R V T E P H Q R P V P W D V R A V S V E A A V T P A E P H A R V L F H L R G Q 148  
gi|88196788|ref|NP\_598565.2| -----M T E R K A A A P R G P W A W F C L L V A L -- A L E V V R V S N H N T L D P I Y L P A L E L L D A P E H F R V Q V G H Y P P A N S S L A S R S E T F L L Q P W P R A Q P L L R A S Y P P F A T Q V V P P R V T E P H R R P V P W D V R A V S V E A A V T P A E P H A R V L F H L K G Q 144  
gi|29788994|ref|NP\_821140.1| -----M T E R A A A A P R G P V G A W L C L L V A L -- A L E V V R V G S N Q N T L D P I Y L P A L E L L D A P E H F R V Q V G H Y P P A N S S L G S R S E T F L L M Q P W P R A Q P L L R A S Y P P F A T Q V V P P R V T E P H R R P V P W D V R A V S V E A A V T P A E P H A R V L F H L K G Q 144  
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi|30089935|ref|NP\_060340.2| D W P P G S G S L P C A R L H A T H P A G T A H Q A C R F O P S L G A C V V E L E P S H W F S Q S A T T R A E L A Y T L E P A A E G P G G C G S G E E N D P G E A L P V G G V E L R P A D P P Q H E V P L D E A V T L R V P D M P V R P G O L F S A T L L L R H N F T A S L L T L R I K V K K G L H V 298  
gi|114637821|ref|XP\_522023.2| D W P P G S G S L P C A R L H A T H P A G T A H Q A C R F O P S L G A C V V E L E P S H W F S Q S A T T R A E L A Y T L E P A A E G P G G C G S G E E N D P G E A L P V G G V E L R P A D P P Q H E V P L D E A V T L R V P D M P V R P G O L F S A T L L L R H N F T A S L L T L R I K V K K G L H V 298  
gi|73983873|ref|XP\_855179.1| -----O P L G A C V V E L E F P S H W F S Q S A T T R A E L A Y T L E P A A E G P G G C G S G E E D P R E Q A L P V G G V E L R P A D P P Q H E V P L D E A V T L R V P D V P R P G O L F S A T L L L R H N F T A S L L T L R I K V K K G L H V 222  
gi|156121119|ref|NP\_001095707.1| D W P P G S G S L P C A R L H A T H P A G T A H R A C R F O P S L G A C V V E L E F P S H W F S Q S A T T R A E L A Y T L E P A A E G P G G C G G E E D P G E A L P V G S V E L R P A D P P Q H E V P L D E A V T L R V P D V P R P G O L F S A T L L L R H N F T A G V L T L R I K V K K G L H V 298  
gi|88196788|ref|NP\_598565.2| D W P P G S G S L P C A R L H A T H P A G T A H R A C R F O P S L G A C V V E L E F P S H W F S Q S A T T R A E L A Y T L E P A G E G P G G C G L T E E E P R E Q A L P V G G V E L H P E D P P Q H E V P L D E A V T L R A P D V M R P G O L F T A T L L L R H N F T A S L L T L R I K V K K G L Q V 294  
gi|29788994|ref|NP\_821140.1| D W P P G S G S L P C A R L H A T H P A G T A H Q A C R F O P S L G A C V V E L F P P Q W F S Q S A T T R A E L A Y T L E P A G E G P G G C G P T E E E P R E Q A L P V G S V E L H P E D P P Q H E V P L D E V V T L R A P D V P R P G O L F T A T L L L R H N F T A S L L T L R I K V K K G L Q V 294  
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi|30089935|ref|NP\_060340.2| T A A R P A Q P T L W T A K L D R F K G S R H H T L I I C H R A G L T E P D S S P L E L S E F L W D F V V E N S T G G G V A V T R P V T W O L E Y P G A P E A E K D K M W E I L V S E R D I R A L I P L A K A E E L V N T A P L T G V P Q H V P V R L V T V D G G A L V E V T E H V G C E S A N 448  
gi|114637821|ref|XP\_522023.2| T A A R P A Q P T L W T A K L D R F K G S K H H T L I I C H R A G L T E P D S S - P L E L S E F L W D F V V E N S T G G G V A V T R P V T W O L E Y P G A P E A E K D K M W E I L V S E R D I R A L I P L A K A E E L V N T A P L T G V P Q H V P V R L V T V D G G A L V E V T E H V G C E S A N 447  
gi|73983873|ref|XP\_855179.1| T A A R P V Q P S L W T A K L D R F K G S K H H T L I I C H R A G N T L G D S S P P E L S E F L W D F L V E N S T G G G V A V T R P V T W O L E Y A G A P E A E K D K M W E I L V S E R D I R A L V L P A K A E E L V N T A P L T G E P R H V I R L V T V D N G G A L V E V T E H I G C E S T N 372  
gi|156121119|ref|NP\_001095707.1| M A A R L A Q P T L W T A K L D R F K G S K H H T L I I C H R V G P E V P N S S - P L E L S E F L W D F L V E N S T G G G V A V T R P V T W O L E Y P G A P E A E K D K M W E I L V S E R D I R A L V L P A K A E E L V N T A P L T G V P R I P V R L V T V D S G G A L V E V T E H I G C E S A N 447  
gi|88196788|ref|NP\_598565.2| T A A R P A Q P T L W T A K L D R F K G S K H H T S L I I C H R A G P A G P D S S - P L E L S E F L W D F A V E N S T G G G V A V T R P V T W O L E Y P G A P E A E K D K M W E I L V S E R D I R A L I P L A K A E E L V N T A P L T G V P Q R I P V R L V T V D S G G A L E V T E H I G C E S A N 443  
gi|29788994|ref|NP\_821140.1| T A A R P A Q P T F W T A K L D R F K G S K H H T S L I I C H R T G P A G P D S R - P L E L S E F L W D F A V E N S T G G G V A V T R P V T W O L E Y P G A P E A E K D K M W E I L V S E R D I R A L I P L A K A E E L V N T A P L T G V P Q R I P V R L V T V D S G G A L E V T E H I G C E S A N 443  
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi|30089935|ref|NP\_060340.2| T Q V L Q V S E A C D A V F V A G K E S R G A R G V R V D F W W R R L R A S L R L T V W A P L L P R I E L T D T I L E Q V R G W R V P G P A E G P A E P A E A S D E A E R R A R G C H L Q Y R A G V R F L A P F A A H P L D G G R R L T H L L G P D W L L D V S H L V A P H A R V L D S R V A S L E G 598  
gi|114637821|ref|XP\_522023.2| T Q V L Q V S E A C D A V F V A G K E S R G A R G V R V D F W W R R L R A S L R L T V W A P L L P R I E L T D T I L E Q V R G W R V P G P A E G P A E P A E A S D E A E R R A R G C H L Q Y R A G V R F L A P F A A H P L D G G R R L T H L L G P D W L L D V S H L V A P H A R V L D S R V A S L E G 597  
gi|73983873|ref|XP\_855179.1| T Q V L Q V S E T C D A V F V S G K E S R G A G Q V V D F W W R R L R A S L O M T V W A P L L P R I E L T D T I L E Q V R G W R V P G P T E G M P E P A A - A B E A E R R P R S C R L Q Y R A G V R F L V P F A A H P L D G G R R L T H L L G P D W L L D V S H L V A P H A R V D P R V A S L E G 521  
gi|156121119|ref|NP\_001095707.1| T Q V L Q V S E A C D A V F V S G K E S R G A L G V R V D F W W R R L R A S L R M T V W A P L L P R I E V T D T I L E Q V R G W R V P G P A E G A R E P E A A G V E E A E R R A R G C R L Q Y R A G V R F L V P F A A H P L D G G R R L T H L L G P D W L L D V S H L V A P H A R V D P R V A S L E G 597  
gi|88196788|ref|NP\_598565.2| T Q V L Q V S E A C D A V F V A G E S R G A K G V R V D F W W R R L R A S L K L T V W A P L L P R I E L T D T I L E Q I R G W R V P G S A E G Q L E P T A - A E E V E R R S R G C R L Q Y R A G V R F L V P F A A H P L D G G R R L T H L L G P D W L L D V S H L V A A H A H V O D P R I A S L E G 592  
gi|29788994|ref|NP\_821140.1| T Q V L Q V S E A C D A V F V A G E S R G A K G V R V D F W W R R L R A S L K L T V W A P L L P R I E L T D T I L E Q I R G W R V P G P A E G Q L E P A A - A E E V E R R S R G C R L Q Y R A G V R F L V P F A A H P L D G G R R L T H L L G P D W L L D V S H L V A A H A H V O D P R I A T L E G 592  
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi|30089935|ref|NP\_060340.2| G R V L V G R E P G V T S I E V R S P L S D S I L G E Q A L A V T D D K V S V L E L R V Q P V M G I S L L S R G T A H P G E V T A T C W A Q S A L P A P K Q E V A L S L W L S F S D H T V A P A E L Y D R R D L G L S V S A E E P G A I L P A E E G A Q L G V V V S G A G A E G L P L H V A L H P P E P 748  
gi|114637821|ref|XP\_522023.2| G R V L V G R E P G V T S I E V R S P L S D S I L G E Q A L A V T D D K V S V L E L R V Q P V M G I S L L S R G T A H P G E V T A T C W A Q S A L P A P K Q E V A L S L W L S F S D H T V A P A E L Y D R R D L G L S V S A E E P G A I L P A E E G A Q L G V V V S G A G A E G L P L H V A L H P P E P 747  
gi|73983873|ref|XP\_855179.1| G R I L V G R E P G V T S I E V R S P L S D S I L G E Q A L A V T D D K V S V L E L R V Q P V M G I S L A L S R G T A H P G E V T A T C W A Q S A L P A P K Q E V A L S L W L S F S D H T L V A P A E L Y N H D L G L S V S A E E P G A I L P A K D G A Q L G V V V S G A G A E G L P L H V A L H P P E P 671  
gi|156121119|ref|NP\_001095707.1| G R V L V G R E P G V T S I E V R S P L S D S I L G E Q A L A V T D D K V S V L E L R V Q P V M G I S L A L S R G T A H P G E V T A T C W A Q S A L P A P K Q E V A L S L W L S F S D H T L A P A E L Y D R N D L G L S V S A E E P C A V L P A E E G A Q L R V V V S G A G T E G L P L H V A L H P P E P 747  
gi|88196788|ref|NP\_598565.2| G R I L V G R E P G V T S I E V R S P L S D A I L G E Q A L A V T D D K V S V L D L R V Q P V M G I S L S L S R G M S H P G E V T A T C W A Q S A L P A P K Q E V A L S L W L S F S D H T L A P A E L Y D R N D L G L S V S A E E P S A V L P A E E G A Q L G V V V S G V G A E G L P L H V A L H P P E P 742  
gi|29788994|ref|NP\_821140.1| G R I L V G R E P G V T S I E V R S P L S D S I L G E Q A L A V T D D K V S V L D L R V Q P V M G I S L S L S R G V S H P G E V T A T C W A Q S A L P A P K Q E V A L S L W L S F S D H T L A P A E L Y D R N D L G L S V S A E E P S A V V P A E E Q R A G L G V V V S G V G A R G L P L H V A L H P P E P 742  
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi|30089935|ref|NP\_060340.2| C R R G R H R V P L A S G T A W L G L P P A T P A P A L P S S P A W S P - P A T E A T M G G K R V A G S V G G N T G -- V R G K F E R A E E E A R K E E T E A R E E E E E E - E E M V P A P Q R V T E L E L G M Y A L L G I F C V A I F I F L V N G V V F L R Y O R K E P P D A T P T S P O P H 894  
gi|114637821|ref|XP\_522023.2| C R R G R H R V P L A S G T A W L G L P P A T P A P A L P S S P A W S P - P A T E A T M G G E Q V A G S V G G N I G -- V R G K F E R A E E E E A R K E E T E A R E E E E E E - E E M V P A P Q R V T E L E L G M Y A L L G I F C V A I F I F L V N G V V F L R Y O R K E P P D A T P T S P O P H 893  
gi|73983873|ref|XP\_855179.1| C R R G R H R V P L A S G T A W L G L P P A T P P P A L P S S P A R G P - P A T E A S V G G K Q W E A G G V G G S V -- V K G F E R ----- A B A E A R E E E E E E E E M V P A P Q R V T D L E L G M Y A L L G I F C L A I L I F L V N G V V F L R Y O R K E P P D A T P S P O P H 811  
gi|156121119|ref|NP\_001095707.1| C R R G R H R V P L A S G T A W L G L P P A T S P A P A L P S S P A R S P - P A T E A S V G G K Q W A A G S M G G S G D -- V R G K F E Q T E E E A R K E E A E A R E E E E E E E E E E M V P A P Q R V T D L E L G M Y A L L G I F C L A I L I F L V N G V V F L R Y O R K E P P D A T P S P O P H 895  
gi|88196788|ref|NP\_598565.2| C R R G R H R V P L A S G T A W L G L P P L T P P A P A L P S S P V R T S - P F T E A V E G K R I A G D M G G H V G -- I R G K F E R A E E E A G K E N E A K E E E E E E - E E M V P A P Q R V T D L E L G M Y A L L G I F C L A I L I F L V N G V V F L R Y O R K E P P D A T P S P O P H 887  
gi|29788994|ref|NP\_821140.1| C R R G R H R V P L A S G T A W L G L P P L T P P A P A L P S S P A R T P - P F T E A S V E G K R V A G D M G S H V G P G I R G K F E R A E E E A G K E N E A K E E E E E E - E E M V P A P Q R V T D L E L G M Y A L L G I F C L A I L I F L V N G V V F L R Y O R K E P P D A T P S P O P H 889  
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900



