

gi | 9966881 | ref | NP\_065134.1 | MDRSGFGFGEISSPVIREAEVTRTARKQSAQKRVLLQASQDENFGNTTPRNQVIRPTPSSFRPFTPTPSRLLRQPDISCILGTGGKSPRLTQSSGFFGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 114645746 | ref | XP\_001153762.1 | MDRSGFGDISSPVIREAEVTRTARKQSAQKRVLLQASQDENFGNTTPRNQVIRPTPSSFRPFTPTPSRLLRQPDISCILGTGGKSPRLTQSSGFFGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 194666970 | ref | XP\_581000.4 | MDRSGFGEMSSPVIREAEVTRTARKQSAQKRVLLQASQDENFGNTTPRNQVIRPTPSSFRPFTPTPSRLLRQPDISCILGTGGKSPRLTQSSGFFGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 29789351 | ref | NP\_598771.1 | MDRSGFGGMSPPVIRDAEVTRTARKHSAHKRVLIQANQDENFGTATPRSQIIPRTPSSFRPFTPTPSRSLRHPDISYILGTEGRSPRPTQSSGGLGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 16758682 | ref | NP\_446282.1 | MDRSGFGGMSPPVIRDAEVTRTARKHSAHKRVLIQANQDENFGTATPRSQIIPRTPSSFRPFTPTPSRSLRHPDISYILGTEGRSPRPTQSSGGLGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 118082405 | ref | XP\_416082.2 | MDRSGFGGMSPPVIRDAEVTRTARKHSAHKRVLIQANQDENFGTATPRSQIIPRTPSSFRPFTPTPSRSLRHPDISYILGTEGRSPRPTQSSGGLGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 71834480 | ref | NP\_001025338.1 | MDRSGFGGMSPPVIRDAEVTRTARKHSAHKRVLIQANQDENFGTATPRSQIIPRTPSSFRPFTPTPSRSLRHPDISYILGTEGRSPRPTQSSGGLGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 19921114 | ref | NP\_609446.1 | MDRSGFGGMSPPVIRDAEVTRTARKHSAHKRVLIQANQDENFGTATPRSQIIPRTPSSFRPFTPTPSRSLRHPDISYILGTEGRSPRPTQSSGGLGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150  
gi | 158301761 | ref | XP\_001238474.2 | MDRSGFGGMSPPVIRDAEVTRTARKHSAHKRVLIQANQDENFGTATPRSQIIPRTPSSFRPFTPTPSRSLRHPDISYILGTEGRSPRPTQSSGGLGNLSMVTN---LDDSNWAAAFSSQSGGLFNTPEPHSITEDVITISAVMLREDD 150



gi | 9966881 | ref | NP\_065134.1 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 114645746 | ref | XP\_001153762.1 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 194666970 | ref | XP\_581000.4 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 29789351 | ref | NP\_598771.1 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 16758682 | ref | NP\_446282.1 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 118082405 | ref | XP\_416082.2 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 71834480 | ref | NP\_001025338.1 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 19921114 | ref | NP\_609446.1 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300  
gi | 158301761 | ref | XP\_001238474.2 | PGEAASMSMFDLQSLFKHSSSTVFDLVEEYENICGSOVNILSKIVSRATPG-LQKFSKTASMLWLLQEMVITWRLLASLYRDRIOCALE---EESVFAVITAVNASKEKTVVEALFORDSLVRSQSLVVDWLESIAKDEIGEFSDNIEF 300



gi | 9966881 | ref | NP\_065134.1 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 114645746 | ref | XP\_001153762.1 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 194666970 | ref | XP\_581000.4 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 29789351 | ref | NP\_598771.1 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 16758682 | ref | NP\_446282.1 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 118082405 | ref | XP\_416082.2 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 71834480 | ref | NP\_001025338.1 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 19921114 | ref | NP\_609446.1 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450  
gi | 158301761 | ref | XP\_001238474.2 | YAKSVYWENTLHLTKRQLTSYVGSVRPLVTELDPPAIPROKMLPDLDDREDEVRLLKYLFLIRAGMTEEAQRLCKRCGQAWRAATLEGWKLYHDP---NVNGGT-ELEPVEGNPYRRIWKISCWMAEDELFNRYERAIYAALSGNLK 450



gi | 9966881 | ref | NP\_065134.1 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 114645746 | ref | XP\_001153762.1 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 194666970 | ref | XP\_581000.4 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 29789351 | ref | NP\_598771.1 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 16758682 | ref | NP\_446282.1 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 118082405 | ref | XP\_416082.2 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 71834480 | ref | NP\_001025338.1 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 19921114 | ref | NP\_609446.1 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600  
gi | 158301761 | ref | XP\_001238474.2 | --QLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTLDETEELPREYLEANWTLKVFEELOAQDKKRVLEENQEHYHIVQKFLILGDIIDGLMDEFKSKLRSRNLPGHLLRFMTHLILFFRILGLQTKKEEVSIEVLTYYIQLLIREK 600



gi | 9966881 | ref | NP\_065134.1 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 114645746 | ref | XP\_001153762.1 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 194666970 | ref | XP\_581000.4 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 29789351 | ref | NP\_598771.1 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 16758682 | ref | NP\_446282.1 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 118082405 | ref | XP\_416082.2 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 71834480 | ref | NP\_001025338.1 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 19921114 | ref | NP\_609446.1 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750  
gi | 158301761 | ref | XP\_001238474.2 | HTNLIAFYVCHLPPDLAVAYALFLFEGVTEFORHCHLELAKEADLDVAITIKTVVENIRKKNDFESHHDLPALDTGTTEDRLKIDVIDWLVFDPAAQRAEALKQGNAMIRKFLASKKHEAAKEVVFVKIPQDSIAEINOCBEGMES 750



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gi|9966881|ref|NP_065134.1| P L P A E D D N A I R E H L C I R A Y L E A H E T F N E W F K H M N S V P Q K P L I P --- Q P T F T E K V A E H K E K K Y E M D F G I W K G H L D A L A D V K E K M Y N V L L F V D G G W M V D V R E D A K E D ----- H E R T H Q M V L L R K L C L P M L C F L L H T I L H S T G G Y Q E 900
gi|114645746|ref|XP_001153762.1| P L P A E D D N A I R E H L C I R A Y L E A H E T F N E W F K H M N S V P Q K P L I P --- Q P T F T E K V A E H K E K K Y E M D F G I W K G H L D A L A D V K E K M Y N V L L F V D G G W M V D V R E D A E E D ----- H E R T H Q M V L L R K L C L P M L C F L L H T I L H S T G G Y Q E 900
gi|194666970|ref|XP_581000.4| P L P A E D D N A I R E H L C I R A Y L E A H E T F N E W F K H M N S A P Q K P L L T --- Q A T F T E K V A E H K E K K Y E M D Y G I W K G H L D A L A D V K E K M Y N V L L F V D G G W M V D V R E D A E E D ----- H E R T H Q M V L L R K L C L P M L C F L L H T I L H S T G G Y Q E 900
gi|29789351|ref|NP_598771.1| P L P A E D D N A I R E H L C I R A Y L E A H E T F N E W F K H M N S A P Q K P L L S --- Q A T F T E K V A E H R E K K Y E M D H N I W K G H L D A L A D V K E K M Y N V L L F V D G G W M V D V R E D A E D D ----- P E R T H Q M V L L R K L C L P M L C F L L H T I L H S T G G Y Q E 900
gi|16758682|ref|NP_446282.1| P L P A E D D N A I R E H L C I R A Y L E A H E T F N E R F K H M N S A P Q K P L L S --- Q A T F T E K V A E H K E K K Y E M D H N I W K G H L D A L A D V K E K M Y N V L L F V D G G W M V D V R E D A E E D ----- P E R A H Q M V L L R K L C L P M L C F L L H T I L H S T G G Y Q E 900
gi|118082405|ref|XP_416082.2| S L P A E D D N A I R E H L C I R A Y L E A H E I F N K W F Q H M N S A P Q K P L L P --- Q A S F T E K V A E H K E K K Y E V D Y G I W K S F L D G L A S D V K E K M Y N V L L F V D G G W M V D V R E D A E E D ----- P E R T H Q M I L L R K L C L P M M C F L L H T V L H S T G G Y Q E 900
gi|71834480|ref|NP_001025338.1| P L P A E E N A I R E H L C I R A Y L E A H E A F N E W F K H M N C P P V K P L A P A --- Q A K F T E K V A E H M K E A E Y K I E L E N W C G R L G A L A E D V K E R I Y N V L L F V D G G W M V D V R E D A E E D ----- S E R S H Q M I L L R R L C L P M M S F L L L T V L Q R T E R H Q E 900
gi|19921114|ref|NP_609446.1| N I P P R E E C C L K E Y L C Y K A Y L S G V D S F V E W N R I Q Q N R P K K P Q S H A A S S Q N F T E R M A S E R K E Q A H R S E V V R W E H K V K E Q A K Q I E L L Y N V L M F P D K G W L V D F F T A K L P E N A V Q L S W D H R L L Q M E K L R S I C I P E I A L F L N E V M F K S G D F A G 900
gi|158301761|ref|XP_001238474.2| D I P C R E E V S I R E Y L C Y G T Y L A A I Q G Y N D W C Q L F Y N G K P K P P P --- A V K L S N F T E R V T S E H R E A T Y R K E L S N W E L R V A E L I N V T R D L L Y N V L L F P E A G W L V D T D T T K P P P D D D E - D W L H R A V Q M E N L R K L C I P E I V L L L Q L H L L T E R Y S E 900
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900

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gi|9966881|ref|NP_065134.1| C L Q L A D M V S S E R H K L Y L V F S K E E L R K L L Q K L R E S S L M L L D Q G L D P L G Y E I Q L - 953
gi|114645746|ref|XP_001153762.1| C L Q L A D M V S S E R H K L Y L V F S K E E L R K L L Q K L R E S S L M L L D Q G L D P L G Y E I Q L - 953
gi|194666970|ref|XP_581000.4| C L Q L A D M V S S E R H K L Y L V F S K E E L R K L L Q K L R E S S L M L L D Q G L D P L G Y E I Q S - 953
gi|29789351|ref|NP_598771.1| C L Q L A D M V S S E R H K L Y L V F S K E E L R K L L Q K L R E S S L M L L D Q G L D P L G Y E I Q S - 953
gi|16758682|ref|NP_446282.1| C L Q L A D M V S S E R H K L Y L V F S K E E L R K L L Q K L R E S S L M L L D Q G L D P L G Y E I Q S - 953
gi|118082405|ref|XP_416082.2| C L R L A D M V A S E R H K L Y S V F S K E E L R K F L Q K L R E S S L M L L D Q D L D P L G Y E I Q S - 953
gi|71834480|ref|NP_001025338.1| S L R L A D I I A S D Q H K L Y E V F S K D E L Q K F L Q K M R E S S L L L L D K G L D P L G Y E I Q P - 953
gi|19921114|ref|NP_609446.1| C V R L A D E I S S E N R Q L Y K V Y T K H K L A E L L A K I A D A S L E L L N S K L D P W G Y P I T T - 953
gi|158301761|ref|XP_001238474.2| N L L L A D V L S S E T R K L Y S V F P K H K L A E T L I K I A E S S L T L M N A R K D P F V G D A A K R 953
.....910.....920.....930.....940.....950...

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