## QUERY

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 $R T S S E G F L L E V Q V K A R P D W L L V C H E G W S L A L G V R I I$
 RI T T E N F L L EVVQMENKPA WLPACYERRWNS SLGN QI



 PAVAVRLSKDRSTLQVLDPVTGNWFSACFDNFTEALAKTA $C V R L Y G A D S Q L Q V Y S T L K S A W L P V C A D N W T A A Y G R F A$ RIN SEDF LL KVVQLRARPD WLLVVCYESWSSALGARV
 CVRFDWDKSMLKVYSATSHKWLPVCSDSWNNSYSEKT
 $P G V A V R L S K D R S T L Q V L D A A T G T W A S V C F D N F T E A L A K T A$

 RLYGPNFILQVYSAQSGSWSPVCQEDWT DSYGRAA
 $P P V G V R L S K D R F T L Q V L D A A S G A W S L V C F D N F T L A L A K V A$ RINRED LLEVQQVRPRPDWLLVCHEGWNPALGVQI


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P P V
``` C V R V
\(F P V R L Q S N D Q V L Q V Y S P D S G W R T V C A D D W T Q A H T Q T A\)
 \(L S C V R V S G K S S V L Q V L S\) EGVWSTVCSEDWDPELGFSA CVVRYGPSFQLQAYSPAKATWLPVCYDSWSDNSGKTA
 FPVRLISAASVLQVVNG KTVRTVVCDDWTAQHTTEA CVRFGADQSLLHVYSSTES QWLPVCSSAWNESFSRKT \(\square F P V R L V S N R S L L Q Q V Y D S R S D S W R L V C A E G W Q P K H T\) Q Q Q A \(C V R L S G K R A V L Q V F \quad T F G S W R T V C S D D W R A E Y G N T T\) P P K KVRVHGSNFLLEVYWTPTKDWRPVCFEGFSEQQGKAS P PMAVRLSRDRSTLQVLDPATKNWASVCFNNFTEALAQTA



\section*{QUERY}

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UniRef90_Q6NUF5


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} CRDMGYYKRMTHQK
CK
 CRDMGYKQSFYSS QGVVDNSTATSFMKLNTSAGNGDLYK CADMGYKNSFYSSR R RIVDDSGATSFMKLNASAASTDLYK -
C C RQLGH LQLTHHKGVNLTDVKVGDTQEFLQVSPNWKENAK CEDLGYNSNTYFKSQTIP LMSASKGFMKLNASAGDDDLYK
 CKDMGYKNSFYSTRGUADDSGAAS FMMKLNASVVDLYK CKDMGYNVNTYYSSGRDADEKGAKSFLRLNTSAGNIDLYK

 CGDMGYKQSFYSSQGVVDDSGATS K FLKLNTSVGSTD C R LLGH H DRDTHHEGVNLSDVKDGSSQVFARFSPGVGPPPE CRDFGYSGSSYNRS DT LMSPYAPNGYFQLNDGNQTS K
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CRQMGYDSQPAF
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CK QLG Y S S YV R S G S L L L S NI E Q E Y Q N S L V S I N L S QP GP L Q


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EAWQPR DNCTS GQUV S L K C S DCGAR P L



DMWQVRSS CASGRIVALKCSECGMRS

KI GTALYPCHCEK GQIVQVLCQDCGRRMLP
EVWQSRE
\(K L Y \quad Y S D\)
E I R Q P R
D

R R E A I F V
\begin{tabular}{l|lll|l|l}
\(R\) & \(R\) & \(E\) & \(A\) & \(F\) & \(F\) \\
\(K\) & L & T & S & N & V \\
\hline
\end{tabular}
VC
C\|S GRVV
\begin{tabular}{llll}
\(C\) & \(S\) & \(R\) & \(R\) \\
\(C\) & \(V\) & \(V\) & \(S\) \\
\(C\) & \(S\) & \(G\) & \(Q\) \\
\hline
\end{tabular}


KI KEVLSACDCENGR V
K L Y H
D M WQ VR S S
K L F H S
KLYHSN
E M WK P R S S
R L F H S
K L Y
K L Y \(\qquad\) S D

K L Y H S
\(K L Y H S\)
\(E R W Q 1\)
\(\mathrm{E} R \mathrm{~W}\)
K L Y
R S R
N S K S
EVWQPRDS
F YKK L T L
K L Y H S
\(R L Y\) \(\begin{array}{lll}\text { D T } & C \\ D & \text { S }\end{array}\)

KL Y H S \(\quad\) D ACS S K A V V S
NATHV SRTQC \(\square\) S GKVVTSLKCLECGSRP
LY K RLLFH S T T C S S K TVV V L R C I E C G
ELLWQP SHNCTS GRVV S VVQCSAC GARS L F Y T S \(\square\) Q Y S S Y C S S G Y V V S L R C \(\square\) S C G
\(\square W Q H R N S \quad C T L G Q Q V\) S L K C S E C G \(\quad\) Q P L
 KI K D S L Y P CDCESREVL TLLCQDCGRRSF
RLYTSNV
GLA EVVTA CWG
KLYHS
EVW
CWG
DTCS
LP R D
TI QESTYTSDCPS QQYVALQCSHCGLRAM ELQQVQNSSGTCLS GSLVSLHCFACG LYIS T E Y S S S C P S G QV V S L R C \(\square\) S C G EVWQPRXGT AS GQI I SLE CSKC GARP AL HHSVVVRECAS GRVI SLQCDAC GQRM SI QS ILRDGSCSDKKVVSLVCEQCVR
TI QESLYRSDCPSQHYVSLQCAHCGLR \(K\) K Y K S A S C V S G A V V S
FSKMFISND』CASKTVVSLRCIECG
E LQVQNGSRSCLS GSLVSLRCLDCGK
ALHHSVVVRECASGHVVTLKCTACGRRS
TH H S V YV RE GCA S GRVVVTLKC TA C GL R M
KLY N SN
WCPSEHAVSLRCDRCGT
LYKKLYPS DACVLKMVVSLRCI EC G

\(G L Q \vee P D L R G P C P S S S V V V L\) R C T A C G
ELWQPR DNCTS GRIVVSKCSECGARPL
LQRQLSSSNS CASDAVVTLRCIAC GARRGP
E L QVQN S S GPCLS G S L V S L Q CLA C G Q
\(R I Q M V L L S T R C H S G K V A S L K C L D C G S R P\)
QQATADRSVCNS GSVVVLLSCSDCGK
\(R L S E V V S \square C D C P T G Q F L A T L C Q\)
AI S T NLSRTECSS GKVI T LKCLECGSRP
LYKNLQYSATCTTGTMVSLRCINCGL
LQSAAFSESQCSS GMVTTLKKCLECGSRP
\(V\) H Q A TTDR SVVCRT GSVVSLKCSDCGQ
I QQS L N S S Q CLT GKYVSL R CT T C G QR L
ELQQQNS S GPCLS GS LVVSLYCHACG
LI Q DVTT D R TVVC S S G MV I S L T C S D C G E R S
QVT SLHNREECTSGNVI ILKCLACGTR I L R QLVLSKSCSNNRVATLQCTDCGSR \(E L Q V Q N P S G P C L S\) G S L V S L H C L A C G
NASHLRE
SLWQFRY
\(T\) Q Q LI N P S E Y C S S G NVIT L K CVVC G LR P

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UniRef90-W5PKW5
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UniRef90-H2LSJ2
UniRef90-F7CJL1 UniRef90_UPI000333447F UniRef90-U3IVM0 UniRef90-UPIO0038724BA UniRef90-W5LR38 UniRef90-UPI0003D091D7 UniRef90-F109E1 UniRef90-G3Q949 UniRef90-V9KZK1 UniRef90_UPI0003C855F7 UniRef90 F7G3HO UniRef90-F6TMW2 UniRef90-UPI000443F383 UniRef90_S9Y1X1 UniRef90-W5K2S9 UniReftol-K7FEA6 UniRef90-Q28DA4 UniRef90-A5PF55 UniRef90_UPIOOO27F8966 UniRef90-UPIO003EC3B64 UniRef90-H2UA74 UniRef90-UPIOOO3C11B05 UniRef90_UPIooo34407B4 UniRef90-W5M198 UniRef90-13KFY0 UniRef90_UPIo00299050E UniRef90-H0YBM5 UniRef90-H3CCZ6 UniRef90-H3CQQ3
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VVR WDRSTVIVSGS 20 EWLPVIC 30
30
40 PS CVRLSGRSSVLQVQ KRGEWRTVCSEEWNTQLGTSA SVAVRLSKDRSSLQVLNTATGNWASVCFDSFSPALAKAA CVRVSGQRAVLQVFTAA AWRTLCSEDWEDQYGS 1 A PPAPVRLVSESLLLQVFD QDQQWRTVCADNWRSWYTQAA PGVRVSGRNAA QVFTAA AWRTVCSEDWKAHHASVA PAGTVRLSKDRSTLQVLNLATGSWASVCFDNFSTSLAKAA PAGTVRLSKDRSTLQVMDPTTGNWASACYDNFTEALAKTA

CVRLYGPSFLLQAYSAKKQSWEPVCSENWTNAYGQAL VRLSKDRSTLQVLDAPTGNWVSVCFDNFTEALARTA
 PGVTVRLSKHRSTLQVLDAATGTWASACFDNFTEALAKTA



RVSGRNAVLQVFV TGSWRTVCSENWKDHYGNVA CVRLHGSGFVLQVYGS GGWRNVCSRGWSAQHGRAS CVRFGWDQSLL HVYSGAESQWLPVCSSTWNDSFSRKT
CVVRYGPNFQLQAYSPAKATWLPVCYDQWSDNSGKITA CVSLHGSSFLLQVYSTQSKAWRSVCSHGWTEEKGRAS CVRFDWDKSLLKFYSGSSHKWLPICSDSWNDLYSNKT R DQAGASLLAVRPQDRSRWL LACYEHWQPTLGTRG CVRVSGQSAVLQVFTAA AWRTVCSDDWRGHHANVA CVRVSGRHSVLQVFGARGLWRTVCSEGWDSQLSTLAA
LYPVQVSPADARLMVFDDTEGTWRLLCSSRSNARVAGLS
CVRVSGRAAVLQVFVA GAWRTMCADDWKGPYAGVA CVRLSGKRSVLQVRSK GVVWSVCWESWSSSGGGEA YCVRTYGPGFQLQAYIAAASAWLPVCSDNWGDTLGRRV PVGVRLSKDRSTLQVIDRETDFWSSACFDNFTEAWAKTA

CVRLSGKKGVLQVESGFA FGSWRTMCSDDWKDNYGRVT
FHOWLPVCDGWN SYSEKT Yy RRSSEDFLLEVQVKAWPDWLLVCYEGWNPALGVQI \(\square Y L V Q V S P G S P L M L F D E T G G T W W L L C S L C S N A R V A R L S\) CVRLHGSRSVLQQYGASGGWRSVCSQGWSARQARAS LSCVRLSGKSSVLQVLN DGVWRTVCAENWNFNLSLSA PPAGARVSKDRSVLQVLNSHTGAWSCVCHDHFTPALARAA RI DRVNSLLQARVEAHPGWLLVCHRHWHPSLGTLL DPAVRLYGPNFIVQVYSAQRKSWHPVCQDDWSDNYGRAA
 PQAAARLSKDRSILQVLNRNTGAWSCVCSDYFSPALAKAA CVRFDWDKSLLRVYSGSSHQWVPVC CVRFNWNGS L RVFSAAEQEWDPVCSDQTEAMAKTA CVRLYGPNFILQVYSPERQAWHPVCQDDWNEHFARAA
 KAHHVLQVYSPGSG WRSVCCDGWTQQHTETA CLRLYGSGSVLQSYSSDSQTWKPVCADDWNDNFGRAT FPVRLASSQNILQVYSESSG WSSVCSNEWTQQHTETA VVRFDWDQSLLKVYYSGTQQQWLPVVCSDGWNSTYSTKT PQAGARVSRDRSILQVLNRNTGAWSCVCYDHFNLALAKAA PPAEARVSKDRSILQVLNRNTGAWSCACHDHFSLVLAKAA


FPLRLYSANNVLQVLSPSDNTWKSVCSESFTQQHAETA
 PPVAVRLSRDRSTLGVLDPATKNWASACFDNFTEALAKTA PAVAVRLSKDRSTLQVLDPTTGNWFSACFDNFTEALAETA PLYPETLSDASVLLMSASSVENERRLICAVRNSSRECGFK \(P \square Y P V Q V G P S D A R L T V F D E T E T W R L L C S S R S N A R A A G L S\)

CVRFGAQNEAQVMTSNSGQFLPVCSAGWSQSLADQT
 \(C V R \square G T G N E L Q V L T S R S G S F L P V C A Q G W N K N D A D Q T\) \(P P V P V R \square S S D R S T L Q L L D P A T G T W A S A C F D G F T G A L A Q T A\) CVRFAKNNS LQVRTSEDGRFLPVCYSGWDQSLARET YDVQUSSADSRLLVYDRSEKVWRMVCESNLNQVLATMS DNSTLQTKTNKMKDFDPVCAEGWSQSDSDKT RLLQGANSMLESYSSSSQTWMPVCADNWDNNYGRTV PAVAVRLSKDRSTLQVLDSATGNWFSACFDNFTEALAETA CVRLHGSRSVLQUY
\(F P V R \square M G D R L V L Q V Y \square N A S G \quad W R T V C A D N W R T K H T X L T\)

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UniRef90-UPIOOO38C4913 UniRef90-UP10003500DAC
UniRef90-M4AHP4 UniRef90-H3CQQ4
UniRef90-W5PKW5
UniRef90-B5X327
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UniRef90-F7CJL1
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UniRef90 F6TMW2 UniRef90_UPIO00443F383 UniRet90_S9Y1x1 UniRef90-W5K2S9 UniRef90-K7FEA6 UniRef90-Q28DA4 UniRef90-A5PF5: UniRef90-UPIOOO27F8966 UniRef90-UPIO003EC3B64 UniRef90-H2UA74 UniRef90-UPIOOO3C11B05 UniRef90-UP100034407B4 UniRef90_W5M198 UniRef90_13KFY0 UniRef90_UPIO00299050E UniRef90-HOYBM5 UniRef90-H3CCZ6 UniRef90_-A3CQQ3
UniRef9O_A2BGBE

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50 CKQLGYSRHVESSYMSTSSANSF CKQLGYSRHVESSYUSLTSMEQDLQTNLISTNYSQAEVIK CGKMGYSRYTSNPTFRAVKLGPDQQLDVVEITQQENNQ

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 CQAMGF
CQQQLG F VS A Y R T T E VA H R N L A S SF S I S K CR QLL S F K G S S S T GELLN GWT S N G L CRQQLGYSREDDYFA Y S QTSAGVLAASNGYMRLK S G S S S S G S L L CVALGFRNFY
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\hline Ref90-UP10003345184 & \\
\hline 3LG & ALHVYVREGCASGHV \\
\hline UniRef90_UPIO0032ADA91 & KLQVQNSSRPCLSGSL \\
\hline UniRef90-G5BH & ELRVRNSSGPCVSGSLVS \\
\hline & \\
\hline UniRe990 UPIO003C12EFA & \\
\hline UP1000331502 & NSSGPCUSGSL \\
\hline UniRef90 UPI0003C28E9D &  \\
\hline - & MQNRSGTCL \\
\hline & S \\
\hline UniRef90-UP10003 & RGQDSGRQCLS S V VSLA CGTCG \\
\hline G3 & \\
\hline F6VM & A \\
\hline niRef90-H2S216 & \\
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\hline UniRef90-F7C9D1
UniRef90 F6Y7 & WKHCDSTCASGNMVSTRCTSCGD \\
\hline UniRef90 \({ }^{-}\)F6YP97 & \\
\hline UniRef90-13JDG1 & LQQLALQNTCPNNMVVTLHCTDCGSR \\
\hline UniRet90_UP10003C & \\
\hline UniRet90_UPIooozbCF1A4 & Q \\
\hline UniRef90_F1NC10 & DAWQIRSS CESGRVVAL \\
\hline UniRef90 M3YCS8 & HSVYAREGCASGRAVTL \\
\hline UniRef90-UPI00034F2A4A & ASLNYSSTCSSGLVVSLKCUDCGL \\
\hline Unil & \\
\hline UniRet90_UPIooo34FBD72 & THHSV \\
\hline iRet90_W5KYS & \\
\hline UP1000 & CDCESREV \\
\hline UniRef90_UPI00034FC & LQSRVYKSFVCTSG V \({ }_{\text {LIL }}\) \\
\hline UniRef90-UPIOOO2038E2C & \\
\hline UniRef90-G3VQ30 & M \\
\hline UniRet90_-6QZA7 & \\
\hline UniRet90_G5B7G2 & \\
\hline UniRef90-G3T & SLLEV TLCDCPRGYFपAT \(\square\) CQDCGCRK \(\square\) P \\
\hline  & MLQQFVLSDACPGDSVV \\
\hline UniRer90-Q41860 & M Q \\
\hline UniRet90 B0UXG9 & PVKITNSKTKCSLGMVTALKCTACGSRP \\
\hline UniRef90-UPI000395C1B9 & \\
\hline UniRef90-U3JU13 & DMWQVRSS CQSGRUVALQCSECGLQ \\
\hline niRet90_UP10002C31C44 & \\
\hline UniRet90_W5K9 & MQSSFSDKKTCSLGSVVALSCSDCG \\
\hline UniRef90-F7CJN2 & INRSDCP \\
\hline UniRef90-L5MOR9 & TLQESLYRSECPSQRYVSL \\
\hline UniRef90-UPIO002741B33 & QLRVLNTSRPCDSGSLVSLNCLAC \\
\hline UniRef90-H9GCRO & QSLNRTSECPSRryvtlrcsscgar \\
\hline UniRef90 UPI00038C4913 & FMSPVDTCPTQEGVSLQCTDCGQASV \\
\hline & P\QTQLMHSPECSVRVVKLHCDECGK \\
\hline UniRef90-H3CQQ4 & DRSQCTSGSVVSLSCSDCGQ \\
\hline UniRee90 W5PKW5 & S DVC \\
\hline UniRef90 H2LSJ2 & SYCFPTCSSVCRSGSIVVSLTCSDCGMSK \\
\hline UniRef90-F7CJL1 & \\
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\hline & SRKCLSGSVVSLVC \\
\hline UniRef90-UPIIOOO38724BA & EPGRKCLSGSVVSLE \\
\hline UniRet90-W5LR & PCKCEKGQVVEVL \\
\hline UniRef90-UP10003D09 & HVQDTSRQCLSGSRVSLTCSGCG \\
\hline iRef90-F109E1 & FQSAVSDRKVCSTGTVISLSCSDCGLSR \\
\hline iRef90-G309U9 & QQCSGPVVRLQCLACG \\
\hline UniRef90-V9KZK1 & CASREVVGLKCLDCGKRVNP \\
\hline UniRef90_UP10003C855F7 & NSSGPCLPGS \\
\hline UniRet90-F7G3H0 &  \\
\hline UniRef90- UPIO00443F383 & DLYQRLYPRYC \\
\hline UniRef90-S9Y1X1 & \\
\hline UniRet90_W5K2S9 & \\
\hline UniRet90-K7FEA6 & HFT LLSGAVVSLVCAACGQ \\
\hline UniRef90-Q28DA4 & \\
\hline  & G \({ }^{\text {SVYV }}\) \\
\hline UniRe90-UP100027F2 & A QhSVYVREASGHVA \\
\hline UniRef90-H2UA74 & VAlHS SSCPDQQ \\
\hline iRef90-UPI0003C11B05 & \\
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\hline UniR & \\
\hline UniRef90-13KFY0 & QLTHSLLCFS NAVTLQC \\
\hline UniRef90-H0YBM5 & \\
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\hline & LHSSSCPGQQTVALQCLDCGQRR \\
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UniRef90-V4AW49
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 CVRLHGSGFVLQVYGS GGWRNVCSRGWSAQHGRAS CVQFGTSNS VLEVKTAQDGRFLPVCYSGWNKEYSDRV \(C V R \square Y G A D S Q L Q V Y S T L K S A W L P V C A D N W T D A Y G R L A\) CVRLHGSGFVLQVYGS GGWRNVCSRGWSAQHGRAS CVRVSGQNAALQVFTAAT WRTMCSEDWKSHHATVA AYCVRFGEGNSGLQVRTTTDGRFLPVCNQGWDDNEAKQU CVRLYGPNFQLQAYSPAKATWLPVCYDEWSDNSGKIAA AYCVRFGEGNS LQVRTATDGRFLPVCNQGWDNNEAMQU LPTVRLAQERSGLQVRSQESGAWAWACRRGFDATMAQAA
FPVRLMSAHHVLQVYSPGSG WRSVCSDGWTQQHTETA RRLYGSNFQLLSFSAKDKTWKPVCSSRWDDN\|GRRA CVVFDWDRSLLKVYSGSSHKWLPVCSDNWNDSYSEKT RYYGRSLQVLQSRTQTGSCVCHDHFTPAPARAA


CVRF GEGNELQVMTSNSSGFLPTCYADWNHSLATQT RFLWDNSMVEVMSRKENLWLPVCYNEYSSDFPSFV GADNRLLVQTAQNSAFLPVCYSGWSTDDAVKV \(R L S G R S S V L Q V Q T A Q G K W R T V C S E D W N R R G R A A\) \(P P V P V R L S S D R S T L Q L L D P T T G T W A S A C F D G F T G A L A Q T A\) FPVRLASSQNDLQVYSESSG WSSVCSNEWTQQHTETA CVRF GAGGELQLKTAHNGQFLPVCYEGWNDSYADQD PPMEVRDSKDRSTLQVLNKETGTWFWACHDNFHMTLAKAA

> RMNTEDFLLEVQVGAQPGXLLVCCQGLIPALGVWM PLVGVRLSKDRSTLQVIDRETDFWSSACFDNFTEAWAKIA \(P \mathrm{P} V G V R T A Q D R A A L Q V L D R E T G A W F W A C H D N F D R T L A K A A\) CVKDNSNSSLEVRTASGEYEPVCADDWSTTRSDQV CVRLSGRSSVLQVQM QGKWRTVCSEDWNNRLGRAA QVNGSR RLRVQUGSTP

SSRGVVRVYNAESDDWEEVCSDDWNDTLSGGV QVNGSR RLRVQVGSTP WHTVCSNGWTSHLSDFT CVRVSGSHSVLQVFG RGLWRTVCSEGWDSQLST TLA

VQVR \({ }^{2}\) G K A WHLACAD D WN E K \(\square\) S D S V CVRFDWDSSLLKVYSGSSHQWLPVCSHSWNNSFSEKT VQVRIGGKWHLACADDWNEQTSDSV EDFLPKVQVGARPGWLLVCCQGWSPALG \(R \square N K S N F L L E V Q U K G T A G W L L A C H A G W S A L L G T R U\) LICGNGWTDQHSHAA TWTVCAQDWTPQFSDFF WWPVCSDNWNQTHSDLV
 RSSGDQAY LQVWNTAAGVFSMVCVENFTSAYAEQA


SDTSLLKVRQYN GEYRLVCSDGWSEEFSTSY CVRपSGEEGMLELYSPNTTSWRPACDQSWDSDLAT II GVQEFGGSSLLKMVRYND EYRLVCSDGWSEEFSNSY CVTLSKNTSFLTVQRSATN SSGDDR Y HVCADEWWE SSLSHLLA RLYGGSSTMEKFVGADGQWGTVCNRSWSEQLARGA R\|GDVDNILQVQFEN NTFSPI CLDDWNGTYATMA

WLPPLCVSNWNDDVSGVA CVRLSLSNSGLVQFRVEREWRTACAENWSPGUSDEVV


TVCADTWDSELSDFT
CVTLSS S S SF A VHRSATE HHVCADGWQEALSQLA HHVCADGWRETLSQLA YTLRLTGANFRVEVFY LGS WRPVCSDNWDLSDGHVA VQAR GESWHLACAEDWSGEDSDSV S S S F LT VOFRIENKW VRSATEQ
\(V Q R B G K V W\)
\(V\) SNKWYPACVSNWDNKYAQAI GRGLLQ QVFSPETDEWHD

MCSDGWTEEHSTGV


UniRef90 UPIo00443544E UniRef90-H2S214 UniRef90-M3ZP96 UniRef90 F6XEJ3 UniRef90-F7EDF3 UniRef90-H2S213 UniRef90 UPI0002C2E212 UniRef90-UPI0003AF51E9 UniRef90-F6TCQ7 UniRef90-UPI00034F7FA0 UniRef90 I3JFH9 UniRef90_UPIO00462E3F0 UniRef90-Q4SPF8 UniRef90-W5KG67 UniRef90_UPI00022CD975 UniRef90-UPI0004542E50 UniRef90-HOYPM9 UniRef90-F1R196 UniRef90-UPI00044404D4 UniRef90-UPIO004432B1F UniRef90-V9LID2
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UniRef90-Q7ZZ80
UniRef90_UPIO0046C0406 UniRef90-UPI0003504E70 UniRef90-G1TL24 UniRef90-U3IJ08 UniRef90_UPI0003EBF9AE UniRef90_UPI000443606D UniRef90-F7B1X2 UniRef90-T1FUV4 UniRef90-T1FV33 UniRef90-UPIOO03838291 UniRef90-D6WMQ5 UniRef90_UPIO003832D58 UniRef90-S4RZX2 UniRef90-T1FDX3 UniRef90-F6QQY8 UniRef90-UPI00033166A0 UniRef90_UPI0003506645 UniRef90_UPI0003DF5D2E UniRef90_J9KVA0 UniRef90_UPI00022C8A23 UniRef90_UPI000441C18A UniRef90-H9GBV5 UniRef90-K7IUP3 UniRef90-F1KPJ5 UniRef90_UPI00021A3F3C UniRef90_N6TUG6 UniRef90_B3SC98
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 C L EMG YSSFHPAAVCSDVGRELTFTDYPQHYSLMK
 RTLSELDRTAGANGTSGFFCVDEGRDPHTQ CQD DGYNGSSYNSDTMNSTYAPN GGYFQLKNGSQTS

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\hline & 90 90 110 \\
\hline UniRef90_UPI000443544E & ELLQVWD F S R P C L S M A L VALLH C \\
\hline UniRef90-H2S214 & LL P T E M PVVCSCPD D SVVTL Q C T D C G \\
\hline UniRef90-M3ZP96 & GL FTTSSSCPNGKTVSLQCVDCGKQP \\
\hline UniRef90-W5K9T7 & GL VNVSSSCSNERTVTLECIDCGKQK \\
\hline UniRef90_F6XEJ3 & \(R L L E V I S V C D C P R G R F L A T V C Q D C G R R K L P\) \\
\hline UniRef90 F7EDF3 & \\
\hline UniRef90-H2S213 & CPD D SVVT LQ C T D C GR \\
\hline UniRef90_UPI0002C2E212 & \\
\hline UniRef90_UPI0003AF51E9 & \(R \quad \mathrm{~V}\) NVS S P C P N K Q TV V LQCVD C G K Q \\
\hline UniRef90-F6TCQ7 & LASS TLQAHDCPRGFLTTICQDCGRRKLP \\
\hline UniRef90-UPI00034F7FA0 & S \(\square\) A T C A S G N M V S L R C I S C G L \\
\hline UniRef90_I3JFH9 & \Q A RVNVS S P C P N K Q T V S L Q CVD C GK Q \\
\hline UniRef90_UPI000462E3F0 & \(L R W\) S D S R G C P S GLAVA L T C S S C G L \\
\hline UniRef90_Q4SPF8 & \\
\hline UniRef90-W5KG67 & A HSY LT DS S T C S N A V VT LK C \\
\hline UniRef90-UPI00022CD975 & \\
\hline UniRef90 UPI0004542E50 & \\
\hline UniRef90_H0YPM9 & QVLE P GR K C L S GLVVS LF C S N C G Q \\
\hline UniRef90-F1R196 & S A CQS S T A V SLK C T D C G R \\
\hline UniRef90-UPI00044404D4 & VQGLLSTSSSSCNDK V S L Q CVD C G K Q P \\
\hline UniRef90_UPI0004432B1F & S CALGGQVI ALK C SEC G \\
\hline UniRef90-V9LID2 & TDQDALYY T CRCESQKVVTLEECQDCGRRKL \\
\hline UniRef90-W5U8J8 & 1 Q GKVNVGTMCP GEQATFLQCTDCGL \\
\hline UniRef90-UPI00034F900F & TI 1 Q GSLQSTTCANGQY L S L R CLDCGKR M \\
\hline UniRef90-H2LSI1 & IQ SRVNVS S S CPNAKIVSLLSCIDCGRQP \\
\hline UniRef90_UPI0003AF2D36 & LQ A P S IS F SVP S D C G LR P \\
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\hline UniRef90-E7F9A6 & GLANV S S G CLD D K SVSLQQCSDCGKQ \\
\hline UniRef90-M7BZ64 & \\
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\hline UniRef90_UPI00045737DB & NIWWH YRTSCGS GKVIQLKCSECG \\
\hline UniRef90_UPI00046B86BB & E A WQ P \\
\hline UniRef90_G3WNK6 & P C L S M S L V L H C A VC G \\
\hline UniRef90-UPI0003C4A5F9 & \\
\hline UniRef90-E0VZI8 & IVNDERTNK T C S S G K Y VelLN C Q E C G S R \\
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\hline UniRef90_UPI00046C0406 & DVWQVRSS CAS GRVVALKKCSECGVRS \\
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\hline UniRef90-F7B1X2 & GSWE EKFNTPSALGVALECGG GPRTVP \\
\hline UniRef90-T1FUV4 & FMSNFKSTTNCPNKQVVQLSCQECGKR \\
\hline UniRef90_T1FV33 & FKPSSNCPSNRYVELSCQECGKR \\
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\hline UniRef90-T1FDX3 & NFSYFlS K T S C T T N RVVFLLKC SECGMRLVP \\
\hline UniRef90-F6QQY8 & LP S D Q C A Q SVI HI Q CQECGKRLVP \\
\hline UniRef90-UPI00033166A0 & LTP SKECP Q S SVI LL Q CNHCGKR \\
\hline UniRef90-UPI0003506645 & \(R L Q S S D Y\) CAS G NVVSL R C \(\square\) C C GL \\
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\hline UniRef90_J9KVA0 & EI R Y CPD S Y LYP S \\
\hline UniRef90_UPI00022C8A23 & VTNLEQVEFC \\
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\hline UniRef90_N6TUG6 & QFTRVENAS CS KI ASLQCQECG \\
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\hline UniRef90-Q9Z319 & ELL \(L^{\text {L }}\) VRHSCPSRSEISSLLCQDCGRRP \\
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PVRLSGANSRVQVYF CVRLNGSNGLLQL EGDWGKVCQDDFTD cVTLSKSSSFLTVHRGATE Y HVCA
VQFRDQSIWHTACAENWT
QVNGSSRLQVQUVSS WLFTVCTDTWNSQLSNFT NDDSGRLEVFHEEK PRVPVRLVGGAGRLQVYGK GRWGTVCDYGWNVLNAALV
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``` DGSWGTVCNRTWSAK
TGKW \(w \frac{\mathrm{LT}}{} \mathrm{G}\)
\(\square E \operatorname{VRDRNGAWG}\)
YSNEGRVEVY
YSNEGRVEVY
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FLEYFNKTTLQWLPDCDDRFTERNAQVA CVTLSKSSSFLAVHRSATE HHVCADGWQETLSQLA PKVPVRLVGGEGRLQVY TEGRWGTVCDYGWTMINAALV
Vs s s f FLMAHRSAVEH
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```
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KAGBE
KTABE S 1 \(V C\)
CVSLSDRSSVLTVF KTAAE
HQVC
EVQ VA TNKTWT
F GRWGAVCDDWNENSKVA
VRKNGVWRKLCYDTWSEDLAKAA RLSGGRSRVEVAVGDQPRWGLVCSEGWGTLEAMVA KKTpVRLVGGDGVLQQMGDSSSSWGSVCGDTWTAAAGEVA
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YPVLLSSGALDVQQNELSSYSWFYVCYDDWSDANSFVA CVTLSKSSTFLTVHRSATD HQVCADNWQETLSQLA CVTLSKNNSLMLLTVHRSAAANHVCADEWQENLSQLA YLVCADDWQEELSQQA VR \(\square S G G H Y\) VEVFY HGSWRSVCDDRWD \(D\) NSGHVV
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#### Abstract

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QHVGFGNVTQCKSKHYAGVLCVESG

N S CPS S EVLDCSNSSUVSVEC
EF QVQNLSGSCYSGSLVSLHCLDCG
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CMYDAGHNDACG DDKVALLRCQ
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