## QUERY

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UniRef90

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 ELVLEDGRNSRAVLCQRCGSKVLSAGSALLATKQLIFPSM DLI SDDGKNCKSIVCQRCGSKVLCAGMASLAEKELDFLPSM
 DLVVSADGKNSRAVLCQRCGCRVLSVGVATLVARELLLLPSM LVSEDGKNMKSVVCQRCGSKVLCPGMAVFAEKQLFLPSM DLLNAEGKNDKSLVCQRCQCKVLRPNLGQHVQKELELPHM $L V C A Q G R N L K A V L C Q R C G S R V L L D G A T T F A R R E L L L P A M$LLGP
S GRNGKTVVC
 DGKNAKSIVCERCNSKI LLDPGVAELVTKEIFLPHM ELIS D GTNAKALLCQRCPCRILNPLKGSFVRKEMFLPHM
ELIT N G K N $L$
$L$
$K$ D Q D EKN
KKDTE
LVEFKNKTNV

| $D$ | $L$ | $T$ | $N$ |
| :--- | :--- | :--- | :--- |
| $E$ | $L$ | $T$ |  |

N GKNSKWV ECK L C C H S
T A DGKNKT TVYCSRCPSKI L N



D N S N E K E I V C S F C G S K V LIK A H A C Y F
ETLVENGKNKVHI ECKYCSSRILNAGMCQFVQTEYTLPAL

$N G R N A L I V R C Q R C Q S S D I D R P G K A V Y V L K Q H F L P Y M$
ELVSEEGRNRKAVLCRRCGS
$D K L V E N G K N K V P G E C K Y C S S R \square L N V G M S E L V S T Q Y D L P T V$ F V P WQL F L P S M
VE DGSNKLVVKCKFCGSK LIEKKTGKFVVQEMNLPLM


VEDGKNKLVVQCKFCGSKILDKKSSNYDAQEKDLPLM
 DLLDESSRNKTSVKCDRCGSLMLRPANADFADVEYDLPEA LVNESNGNILRRIRCCFCNSPVFSKSAATATHTPVQLPKM

NNDKKNKTKVVCAKCES LI L T P P GK S TLSENEHSSLPDMM E EKNKHTVYCTKCPSKILSSTMGKHLRDEFNLPHM D N K L C S KI RCPMCS S LI LIS P D S A T L HIIE S IS L P K V L V N E S G K N S A DV L C P K C K C I I L R K N A A T L V V E R D L A A P P E S

S D GE K N A A R F G CLLT C P S V I L L L A G
TE GASNEQR LVC GVCGSVVL LAA GAGRWSDRE ELLLP LDC $D L V T D D R N A L S V R C S T C G C M L L A A K A A E Y V Q K P F Q L P L C$
 T NA S A II KCRRKC G S I I L L P N T S V W WT E E G I Y L P S L


NTY D L LC P R C G S V I LIK S G VA S WVERELD LP G Q E LVSAEGPNRKAL DLINEDDRNLHKVVCRRCKSVIFPEDVVMTVEQPYQLRVM LD GSRTNKYDLLCPRCGSVILKS GVATVVEREVRLEPE
 DLLNVD DKNWNTIVVRRCDSVI FPEDKVMYVEDYTEDPEM $D L V V D D G R N K C D L L C P R C G S V I L K N G V G S L V E R A S V E P P A$ DVLS E E G N T N K K R S DVG K C K F C S S A E GRNCRSVKCKFCGS

EK $\square$ N GK VLN DEVI C C P R C P C
N K H DL LCPRCGSVI LKA GA A S WVERA H
K T N K Y D L L C PRCGCVILK P E L V E E G S T N K T D L M C P R C G S V I L L R G V D IVNDNKKLSKRIHCRRCECI II LIPNNASLVEKE I ALLLNQ
 $\square T E R \square R N S D I L Y C P Y C K S V I L L K G M G V L V Y R R N R I L D N$

S S D SAN KVDLLCPRCGSII LKNGVA SLVERELQLEEPA
S G E S L E T RNE E GFLL L T T I H C R L C D C K L L T $P K N A K L V E$
$P Q H G R F Q E$
DVLDANFKNIHDLLCPKCGSLILLKGVASQREEATIDPPV

SDRILNSTVVYCPRCPCITYRPLTAFSTKGEFPLP DLLNVD DKNWKSVLCRRCDSI I FPEDRVKLVNLTVKLPLM

 NE S KI I C K K C S CLII L R P K Q A K FI I E K K I E L P V V

 $D L L$
$D E L$



## QUERY <br> UniRef90_UPI000388B44F7 UniRef90-W5MVK4 UniRef90_UPI0003C1B406

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UniRef90_E9CD09

##  <br> R

RKKPDGDVLEEHWLVNDMFIIFENVGFTKDVGNVKFLVCAD KKKTDGDVLQDHWLVDDMFSFENI GFTKDVGNVKFLICAD RRKPEGDVLGAHWLVDDMYTFENVGFTKEVGKVKYLICADD KKSSDGEELQEHWLVDDMFTFENVGFTKDVGNIKYLI CAD RKKSDGDTLTAHWFVDDMFTFENVGFTKDVGRIKYLICAD RKKTEGDTLQDFWLVTDMYTFENVGFTNTVENIKFLI CAD RKKPDCELLAEHWLVHDMFTFENVGFTKDVGSIKYGVCAD QKNNDGDTLTAHWLVDDMYTFENVGFTKDVGKI KYLICAD KKKSEGETLKEFWVVDDMYTFENVGFTNTVNDIKYLICAD RKKATADVLREHWLVRDMFSFENVGFTRDVGNVKFLVCAD HKKKDGETLKDYWVVQDMYTFDNVGFSNTVGTTKYLICAD RQSTEGDVLQEHWLVDDMYTFENVGFTKNVNS $\square K Y$ LTCAD KKKSEGENLSEHWVVSDMMTFENVGFTNTVGTAKYLDCAD KKSPEPELLNQHWVVNDMYAFENVGFTHTLANVKYZACAD KKKSETETLNDYWLVHDMYTFENVGFSNAVGNTKYLICAD HHKSEGEDI T GYWQVAD IYTFENLGFSNTVDK IKYLICAD

 YKKKHPEKLTHFWVVNDMFTFENIGGSNTVGOTKYGLDCAD QQKPEGDTLHHYWLVHDMFAFENVGFSKTVNNVKYLTCAD HYKNEAEEISDYWAVHDMY DFENI GFSKTVDNFKYLICAD RVKKDGEQLSQFWKVDNMFTFENVGFTKTVGS DKYLICAD KKKSNCDLI TECWKVENMYAFENI GFSYGVDTTKYLTCAD KVKSEDEYLSEYWLVNDMMTFENVGFSHNVGTDKYGACAD TTKPAGETIKDHWLVVDMFHFENVGFSRSVEDLKYLDCAD ERKDNVENVTDFWCVEDDYTFENIGFSNTVGKAKYGACAD VQKKDSEALHHFWLVEDMMSFENVGFSHTVDGRKFLVCAD KPKTDSEVVIPKFWQVDDMYSFENVGFSHSVGGKKGYGVCAD
 RKKPEGDLLOEHLGEDMFTE ENVGFTKDGNDKELVCAD
 V Q R T V T $\quad$ D T C E H W W Q V K D M Y D F
 S Q K K E C E L LIA D Y W M V V P D M Y M F D N I G G F S K T V E G I K Y L I C A D R K D G G E E $\ddagger$



 K K E E E T G G T E Y F W T


$R K K P$ D G D L L Q E N WL V
TH Q A K G E KI I S W W W Y T VG Q TVDKKKVLMCGD F Q K N E G V T L T D Y W H
 K GS T A S E K I S W W WH TM K N D K D F D T I G F A WV V D G K K T L L C G D


 AK K S E Q K T E S R F WTVVE R M T D F E N V G F C N T V E G I K Y L I C A D




$P$ LNP P A P TA NWW T A A
$K$ QS NTAA E D L K Y M WF Lim D M F Q F E N I A F T K D


 STSSK E T E D V S L W WY TA S D M D F D T I G F A F E V D N K K V L L C G D PA LIP S E S P D DVVDC WLLVIP NP M A F E N I G F S R A V P K K K L L A C A E
 K G S D T A E E L K WM WF L P D M F Q F E N I A F S K D V K N I K Y L T C A E
 S E GK QME K T DVWWWF TTN E Y A F D T I GF L T V D D L DV L M C G D



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 TEGIKNAETLYCPYCKSVILLKDMGVLVRKNKDSYKN NPNLIDNDFALPY I EVKSEDNVNVRKLHCPRCGSVLLQPGVGVWADMQASLPDD DLYVDGAPNPTALKCQYCNSSMLDAKAGTVRKTKDDLPDN VVEARTNESTLICKDCQTVVILKNMTTWLDEERELPLT SENKVNTRKLYCPRCRAVIVQPGTCELIEKPDLLPRE

RNERHLVCTFCKKILVQQGNADKVAKYVGLDKN $\square V R D G K N K F Q I Q C P H C S S R L L C E Q T G A Y L K Q E M Q V P K P$ ELVDATGLNKADLFCPRCRCFLLRRGTGKWVQTDFELPAL


TNVRADHCPRCAST\LSPGAA DWVTSEPVLPDD QLVNSENHNAYSIYCQGCRSLILRANLGKWVERSLKLPDD EATSANSRTLHCPRCGSLLLQPGGGVWADLQASLPDD KNSRNARCPRCRSLVFLAREAELKDLDTVHPDS SKNPSKLLCPSCRCII LRKDVGRLVTQECPLPEP $\| L$ SEDGKNCFNIYCPSCKSFiLRKLQGSKL LTNDRMPS $\square E C R R R \square R K A M P C Q H \quad Y \square W L L S A \square A D F C Q Q L F P L S K R$ TTEYLDEERDLP L P RRVVCQHCPSVVFNNKRPDVVKRPTMSAML



EKFQLLER

[^0]
 DNVSSSDTMSTFWTVSSPFVFENLGFSKNDGNIKFLACAD HSKAESETDSAYWLI EDMYTFENIGVSHTVGNVKYLACAD LS SPFPSPTAPHWHVASPFAFDNIGFSRPKGKVKWLICAD RQTKQTELVKGYFGVKD IFAFENVGFTRSADGKKFLVCGE RGNAEQETLDWHWEVATMWEFENMGFSNTASPAKYLTCAD
$D G S P F A P T E G A Y W V V R G P M A F D N D G Y S R A A P K H K F L D C A E ~$ HMR EYDNDNTYWHI DSDDK DENME DHG DNGE DCEETFETLEEFWKVESLMTFENDGMTKPSPGVRYLTCCD
 NQFSHPSDPEPHWRLAGPMSFENITGSKTAPQTKFLACGE P $\square A \square N G L P S K G F W S L$ GSPDAFENIGFSRNAPPIKYLICAD SAAPEPEKTQGFWKVSDMYDFENGGFSNQVDNVKYWLTCAD NEKDTKELLNQGFWVLNDVMAFENI NVTNTVTGI RYLCCPR PSSPFPAAAAPHWHVASPFAFDNI GFSRDKGKVKWLDCAD

 GKKPDGDLPR KKPPDGNLLREHWMVNRMFDFENVDFPKCTGNDKVVGCMY RQKKQTEP DRGFFGVKDMFAFENVGFTRSSEGKRYLVCGE P LPPAGSTTQWWLVTPSPMAFENIGFSRPVGPDKLLICAE HSETQEDLTDDFFLLKDPFAFDNVSVSKPANNYKLLACAD A AEKGPSESERYYSLKDPFAFDNI SVSKPASNTKLLACGE

AAQGKS FLQVNDVWDFDNVGVSRTA



 V EKNSSKFFK PLNPPAGQTENWWLI


 NLPVPPELMNWWLVTPSPMQFENI GFSRPVESV

 QQK DGSHNNKFMIVNDIWDFDNVGVSRDI PELKYLLCAD
 RTMRDTPSESNFLVVPDVWDFDNVGVSREIPSLKYLICAD PAPPQGPSVKGFWTVAGPLQFDNVGFSRD
QQREEDLTNSEFFITKDVWDFDNIGVSKDDPSLKYLICAD
 QRKQSADSTTS F LITE D DVWDFDN G GVVSKMDPGIKYLI C GD RTGQDASLSSNFLVVPDVWDFDNVGVSREDPSGKYLICAD HVPRSSNPHEWWWVVEDVNDVDNVALSYLVGAURLALCSE APLPQPSATMNWWLVPNAMAFENIAFTRPV



[^1]
lupas 21
lupas_14
lupas_28
jnet
conf
sol25
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jhmm
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[^0]:    lupas_21
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    jpssm

[^1]:    lupas 21
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