## QUERY

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PVDMVQLLK K Y P 1 V NMVQLLTKYPIVWQGLLALKNDTAAVQLHFVCGNKTLA INMVQLLTRYP IVWQGLLALKNETAAVQLHFVCGNKSLG LLERYPVLWQGLLALKNDQAAVQMHFVSGNHRVA $S L Q M L L R R Y P V M W Q G L L A L K N D S A A V Q M H F V G G N P G V A$ S LVTLLQRYPVMWQGLLALKTDQAAVQMHFVHGNPNVA SLLFMLLKQYPCMWQGLLALKNDQAAVQMYFVSGNDSVA SLVQRYPVFWEGMIALKNDASSVVQMHFVAGNA QLA $P D S L T R L L Q R Y P V M W W G Q L V L K N E F S S V E M H Y V S G N K D L A$
 L
 $N L N D L A G C F P V A W H G S V V L K N S A F A T R M H L I G G D P S V V$ $N$ L Q DLA K R F AV A WK GS LI L K NSAFPVRMHLVGGNPEI A
 K L C L A WH GMLLLKNSNFPANMHLLEGDHNVA LFQRFPVMWRGQL ALKNDSSFVQMHFVSGNQGLV $S L L S$ $L \stackrel{Q}{L} Q$ PTTLLSEYA Q T L P P L A A W S NFQQY DHK $T$ LA EVARRRSIPSA NWTGALVLKNSFFPTKDHATSGEAA A $P T N L M E F A Q T L T L A W N G V L V L K N S C F P T N M H T D E G D D A V V$

| $S$ | $S$ | $E$ | $Y$ | $A$ | $Q$ | $T$ | $L$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $S$ | $L$ | $L$ | $G$ | $W$ |  |  |  |
| $A$ | $D$ | $L$ | $A$ | $K$ | $M$ | $L$ | $P$ |

    S
        \begin{tabular}{l|l|lll|ll}
    T \& V \& P \& D \& V \& $A$ \& $R$ <br>
S \& L \& A \& D \& V \& $A$ \& C <br>
N \& L \& Y \& E \& A \& L \& E <br>
N \& L \& S \& D \& L \& L \& N
\end{tabular}

                \(\begin{array}{ll}M & L \\ S & S \\ K & S \\ R & \\ C\end{array}\)
    
$N$ LS DVVGSS YP LVVWQGRLSSLKNMETMVALHFVQGNHNLL
NLSDVSKRFAVVWRGAFALKNSAFPVKMHLIGGNPELAB
$T L G D \square$
QKLS QA
$H K C T D I$
${ }_{S}^{D} \frac{L}{F}$
$\begin{array}{lllll}H & C & T & D & 1 \\ Q & Y & P & L & V\end{array}$
$Q K L I Q V W Q G V L L L K N S S S$
QKLQV
$P$ S KVGACGQKLSSVVWLGDLLLKNSSFSTSSHLLDGDVAVA
P E T L S E LGGK S YP I A WR G NLV L K N T G F P A R L H L V G G D P S V A


ASRYPVMWQGDIALKTNE
$P$ VDMSRYPVMWQGIIALKTNETRVQMHKVGGNAEMC



T TLSEHVQTLQL GWNGFLVLKNSCVFPTSMMHDLEGDQGVI
VE K GRTLPPVVWC GHLVLKNSCFPTVGHFLEGDRDVP

S T LQ E LG RTCAS A WQ G G LVLK NSAFPARMVL CSGDS VV



DRERLLDRHKLLWQGYLS IKNDTATVHLNLIHGNADVP



 FVQRGDLSL
K Y P LV W W G A I T L K T S C Y WT D V R FI S G A I S L V K L C A WQ GMLLLLKNSNFPSNIPTCS
LE D DA A LE L
 WD T S F LLLK S SKFMTRRLFFVVSGSMDR A S L H D LC Q CFPP CWQ G GFVL K NDIA F P V L F F F L D G DM G VF
 MDEVAF TQHFPMVWTGRDTMKSTETMINLHLINGSETFL

 NFEELDATYAPTWSGKMALKK T DYPVVKYRVHGAERLV



## QUERY

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UniRef90 J9JXU4 UniRef90-U6HVH0 UniRef90_G3N7P5 UniRef90_H2T4D8 UniRef90_I1FJM0 UniRef90_UPI000454B632 UniRef90_UPI000265848D UniRef90_J9K9T4 UniRef90-T1KIR6 UniRef90-B3RZU3 UniRef90_G5C4B4 UniRef90_T1G9E7 UniRef90_A0A044R4V0 UniRef90_UPI00045446F2 UniRef90_T1FXW2 UniRef90_UPI000333D19F UniRef90_I3KZK8 UniRef90_V4CME3 UniRef90_G7YEN8 UniRef90_F7C1M9 UniRef90_UPI00039566F9 UniRef90_B7PH09 UniRef90_Q5BYW4 UniRef90_R7TF13 UniRef90_U6PXB6 UniRef90_H0YV02 UniRef90_E4XIW2 UniRef90_U6IG11
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UniRef90_U6HRK1

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 ALP C GRDHMDVL QQSTNLTA GF NY L ALLPCGRDHADVL Q H S R NLLQTGF I T Y L Q Q K M A A G I V



 AL PCGRDAMDVLQQSNNLRQGFITYLQLKQAAGIVNIAAP

 A L
 AVPGATETSDPAASTQRPLRNLVSYLNQKQAAGVIVLDVG AV P C GRD P M D I S Q Q T K G LTE GFI Q Y L Q Q K Q A A GIV V N P M P
 A T Q G GRD Q TAVLE QS S Y LRRNGFI NY L S SK QAA GIV N A GQP

 GLPGSTTSDEAAGVQNRPLRNLVTYLKQKEAAGVISSLAN



 GLA GSTNDTDDASVQTRPLRNLVSYLKQKEAAGVIISLLD

 G L L $\quad$ T $G T$
 AVVPGRSE GQ D S S N S T E R P L K N N L V S Y Y L K H K E A A GII I S L P V G AMPCSTNSNDDASVQQRPLRNLVSYLKQKEAAGVI AFASGANRADLA QQNLALSDGFI R YMLDEKGAAGI I NVGQP AVPGKCEDQEANSSAERPLKNLVSYGKQKEAAGII GLPVG
 A L P G G S P D E G D D S M QLDR P L R S L V S Y L K Q K E A A G I V A L S S S S AT Q A S A G G GA EP G L Q R R L L R R N L V
 ATAGSSNAEDGRAVQTRPLKNLVTYLKQKEAAGVIDLTN
 ATPSGAGAEGMPPVQRRLLRNLASYLKGKQAAGVIVSVVG
 CLLSCGPS K E D I K N Q S D L L K E R F V D Y L E S K Q A A G I C C N V G N E A L P C G R D Q E DVVVN Q T E S L K A A A F I TV Y L Q T K Q A A GI I

 AL P S T L Q N Y D D S N I Q Q R P L R NL M Q Y L K Q K VA A G V I


 A VP GAS DN R S A A GAAA EA P L R N L V S Y ALA $\quad$ QEQAGGQPQRPLRNLVSYLKQKEAAGVI PLAR TLA A A PPQTSDASMNR ILCDGFI KYMLEKCAAGII NV CHP
 A L P C G R D Q E DVV S Q T E SLLK A A F I ALPCGTDERDVHTQTDALQKKFI ALA S S SVVHNLVAERNDMLQQNM AV Q GAVER QASAP EV R R L L R HLV ALPWKSDDQDAVNSTERPLKNLVS YLK QKEAAGII SLLPAG AVPGSTPTDPTDK QPQRPLRNLISYLRTKDSAGVVLLNPP
 AL GRESQEA SHPVLLQNLVVYLKQKNAAGVITVMP CLSCGFNKDD DRNQSEMLKERFVDYLESKQAAGI CNVGNE

 ATIS QRA YME DN A Q Q N MI L Q N V I T Y L Q D K T A A GII I S CP S
 AMDRNESPEDDANLTGREFRNLVMYLRQKDAAGVVMLEMA $A D P G G T \square S G P D P T Q Q H K P D R G L V K Y F K E K E A A G I V S V P A \square$

 ATPSGPGSEGMPTVQRRLLRNLVSYLKQKQAAG

A L P Y G V D P D D TAE K Q K Q C L E N H F S K Y FA G K N C C G NL Q I N H ALSSSVTD P GD DQ T K D A HLKA S VID Y L T K K Q $\square$ A GVVS L E E V



| QUERY |  | $\mathrm{M} \mid \mathrm{V}$ I A S V |
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| UniRef90 | C1LJQ9 | A $11 \leq 1$ |
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 PVWKAVFALKKSNFSCHLYAVTGDTDLA
VT LG G LDDCDPDIWRGEILLKTNGFFFRCLHVIGGAEVG

PPTSAPKAHVPSVVWQGQ $\square$ Q $\square K S H V A R \nabla R A V H \square W G P Q D \square A$
PSTLSEFAQALSRLWRGFFALKNSSFPTDLFLVGGNAEMC S DLEAFALRMPHLWFAHLYYTKKSVFRFRCLLVVGDERLA LA VA WA GA LQLKK WHF GVELRAVSGGRDVL

EGRVVMKTQSASVRMQLLQGQGNPI
$S \| V Q L Y Q A Y P L \square W Y A R L H T S T Q Y F E L A F R C V K G S T Q V V$ $S$ LLE LHSALGDCWEGELEIKKQPISARFSLI AGDQKRF

lupas_21
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
ssm



[^0]

|  | $90 \quad 100 \quad 110 \quad 120$ |
| :---: | :---: |
| Un | A LPCGRDHNDVLQQSQNLRNGFITTYLQQKMAAGIVVNTPLP |
| UniRef90-A0A016UX01 |  |
| UniRef90-H9J3M2 | GVS GSTTNEDVS $\mathrm{TQ}^{\text {Q }}$ T R PMRNLVSYLKQK |
| UniRef90-F6YGG2 | ATQASAGGGAEPGLQRRLLRNLVSYLKQK |
| UniRef90_C1LDZ4 | LPDVEQTNKSINKESKLNNPLVAYLKLKQSAGIISLNTH |
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| UniRef90_H9KVF | ATPSGLGTEEEPGLQRWLLRNLVSYLKQKQAA G |
| UniRef90-H3FKC3 | VTPAGKTLDEVRDNRELFTKNLVNFFTEKVVAGDTEFTH |
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| UniRef90-U6IEC7 | AVPTVI KAEDADNHNRQLTD LI TYLASKEAAGVVVVSAD |
| UniRef90-H2KQ16 |  |
| UniRef90-W2T040 |  |
| UniRef90-E1FN71 |  |
| UniRef90-Q4R9P9 | AVQGAVERQASAPERCACCAILVTYLRNKEAAGVVILPAA |
| UniRef90_A9VEH9 | A L ELVQE SPEQVDNLQRYFTQYLQDKNVAGLIP |
| UniRef90-A0A016V | CLP CGLSRDEI IT NSDIFRTAFIDYFTSKQAAGI AVMPQT |
| UniRef90-UPI000161C0DB | CLS CGPSKEDIK S QSELLKERFVDYLESKQAAGUCNVGN |
| UniRef90-M4ACL4 | A |
| UniRef90_U6HV18 |  |
| UniRef90-F2UH13 | AGPSARARADAAGMTDPLHRAFVAYLSKKNA VACVTTP |
| UniRef90-L1J014 | RPPDEEEEDSANIRAQFSKNFVRYFMERNAAGVVP DLLK |
| UniRef90-K7HXC4 | GVIT GKKDLED LTQPLVNYFTNKDAAGVA |
| UniRef90-E5RZ45 | LRVDYFLLEQQAKPRDDFVRSLVNDMLVGNYDGFCSTEEM |
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| UniRef90-E4XOZ9 | TKG RGSQRSIKSLNQYFQLTNSVGLVYV |
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[^1]

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> FMLYAFPPGEFSQQFLQ AAKRTVGNLE EEHM

KEGGTGGMLYAFPPGEFSQQRGQ AAARTVGNLE DEEHM GDSEHSRVLHVLPPGDLSVALLVEGADSCLKRVEAGDNY L GDSEHSRVLVHVPP GDLSVAALLVEGGDSCLKRVEAGDNYM $V$ VTVAGGLLYIFPHSEMSIKLMTHFAP TVRLMSDGCPFL KEGGPGAMLYAFPPGEFFHHYLQAAAHGALGRLE

DEHM
KATVFVLPAAEPTLRAARSVASAHPALADGLKNK
DE L ATTAGCLVHVFPPGEFPSSYLQYYSPQLYESITARQASF

TANFHKYTLLLLTPSSFS LSLLKFAAPRLSSGLA
AST LS K NSFLYYLPPCSFAQQCVDKAAP LLDSAGVQDTDL


GGVLY Y P PFCEFALKLLAEFTPQ VHVFNESCPFL
SAQQKK LSV HI FPPNKFVRKYLDDNHPTEYNALNEDKEDYL



| UniRef90_T1GDE6 | 1 V I ATV |
| :---: | :---: |
| UniRef90-A0A016UX01 | $\underline{L} \mathrm{~F} \mathrm{~V}$ |
| UniRef90-H9J3M2 |  |
| UniRef90-F6YGG2 |  |
| UniRef90-C1LDZ4 | V L L |
| UniRef90_G4VF43 | 1 LL |
| UniRef90-H9KVR9 |  |
| UniRef90-H3FKC3 | L L V L L K |
| UniRef90_V9KR78 |  |
| UniRef90-UPI0003B53EB9 | VIVIVN |
| UniRef90-H2LCX3 | V I VIVS |
| UniRef90-U6IEC7 | V I L L S K |
| UniRef90-H2KQ16 | V L L |
| UniRef90-W2T040 | L F V L |
| UniRef90-E1FN71 |  |
| UniRef90-Q4R9P9 | VF V I V S |
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| UniRef90-E5RZ45 | V LVI |
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| jnet |  |
| conf | 8998708 |
| sol25 | B $\mathrm{BBBB}^{\text {B }}$ |
| sol5 | В $\mathrm{B}^{\text {B }} \mathrm{B}$ |
| sol0 | B B B B |
| jhmm |  |
| jpssm |  |


[^0]:    lupas 21
    lupas_14
    lupas_28
    jnet
    conf
    sol25
    sol5
    jhmm
    jpssm

[^1]:    lupas 21
    lupas_14
    lupas_28
    jnet conf sol25 sol5
    sol0 jhmm
    jpssm

