## QUERY

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UniRef90-A8XQX3 UniRef90_GOMMS6 UniRef90-T1IP76 UniRef90-T1J710 UniRef90-UPI0003832487 UniRef90 Q4RXV5 UniRef90_UPIO00329FBB6 UniRef90-J9EWR8 UniRef90-EOVII4 UniRef90_J9JWU0 UniRef90-B4GII9 UniRef90-BOWSR5 UniRef90-A0A044SL42 UniRef90-W8B7U5 UniRef90_T1KXI8 UniRef90_B4MFM1 UniRef90_Q9V3C1 UniRef90_UPI0002657FB6 UniRef90-H2XQ20 UniRef90_G7YT08
UniRef90_B3MET7

$R K / V S G P S L V H S F T R F \square N K S E R C A D I I W W D Y E G K R V T Y T$ RPVLRSPGTGRRDH SYRGRRAGVLFVPGPGERLPAP PVFRSDNSQHESFVRF!NTTPHTDTLYWMDYQGQAIDYG LLRSISNQHRSFVKFINQTFRPVRLYWDDYQGNAVNYG

> SGRSSMPSFDRFCNRTNRLVD! DWLNYEGLGVRYR QPVLRSTNNEHRSFVKF $\quad$ NKTDHSVVLYWI DYQGQAVSYG
 PNLRSEHSVLRSFLLFRNTTERTVDVYWVNYSSRFIHYT PVLRSDHNRHSSFVRFDNTTRHNISVYWI DYQGKKVCYR
 RPRLRSVNSREPSSVDFCNRTCRRVLPFWVNFEGHPTPYR
 S GP S VRRSYVRFVNKTCRDAD DWDNYEGR[LI KY

RPP LK S EQSE $\square R S F V K Y \prod N T T Q R P V E V L W V D Y S G N V S H F K$ STHDNREIDRVRFLNRCAYPVDVFWLNPSKQPTKYG VKSVQSEDRSFI KYi NTTQRTVAVEWVDYNGDACNFR LIRRSINSSDECFVVRFIVNTTPHCLTVLYWIDYQGNPVSYG $R H Q L V S G P S L R P S Y V R F V N K T C R Q V D V I W L N Y D G L R I K Y K$ RVVVKSLVSSRRAFI RFTNRSSRPVAVWWRDFQGRKQHY NFRSLNS LEKCYIRFDNTTSRSVDVVWlNYSGVLVNYR VLRSTKSQRVSFVRFVNQVKRLVAIFWINFEGIRVRYT
 LLRSVDFSYPVCVMFVNKTERYVNVI WI DYEGQWI RYQ
 LKSGASNDKAFVSFKNSTDRVVDVVWMNFNGQRQSFT RPDRVRFFNNCPNTVDVFWLSPQKEPTKYG

 LK S G S DRLKAFVRFLNKTNRDVDVI WLNYEGQR

## P L VR S $\square$ N S R $\square$ P VVAVFCNRTPRVVRPVWDDFFGNPQAYD

PGYRSVRNVEEVNDRF DNNSNDTVDLYWDDFRGNLVYY L $\square R S I N N I D S A F V Q F Q N K T N R K I D V L W I N Y A G G L K K Y G$
 TVDVYWVNYSSKFVHY S VEVYVLFVNQTNRTI DLYWKCDRDTENMYL
PRYKS $\square R S V E E V N I R F D N N S R D T V D L C W V D F Q G N L V R Y L$ MRS RN KESFVLFRNTTQRTINLYWLDHNDTFHM LSSKEANKRVFLNIFNLTTYPVDLIWIDYQGNEQIYA
 RDYSQESDRRAYYRFVNASPREVELAWYDYDGGKHDFY VLK SCRSNQVSYVKFCNKTGTYY SLEWDDFRGHHIKYE


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TLPP GTGRR ${ }^{50} H S Y R G H L W L V^{60} R D A G T H D G L L V N Q T E L F V P S$ $T M Q L G T G R L I H S H R G H L W L F R D A G T H D E L L V N Q A E L E V P S$



 TLNPGTGRRMYSYLEHLWLFRDAKSDDSLLVNQTELEFAT $N \mathrm{~N}$ QPGTGRRMTTYVGHPWMFRDAETDEPLIVNGKELELPK $N L K P G T G R R M T T Y L G H P W M F R D A D S N D G L L A N Q E E L E F L D$ ALLPGTSLRVNSYRGHPWLFRDARTNDRLLVNQTELLVVS ELRPLTGKRITTYVGHPWMFRDAESDDPLLVNNKEMYLPS TLQPGT GRRI HSYRGHLWLFRDAGTYDGLLVNQTELFVPS

 DMQPGSGGRRMT TY V G H P W I F R D A A S D E P L K V N C K E L SLCCDRNRAQRAALSHLWLFRDAGTYDGLLVVNQEEL FVVS ELQPGTGRRMTTFVGHPWMFRDAKTDEPLKVNGKELFLPK DLKPGS GRRMTTYVGHPWLFRDAVTDEPLKVNGKEFFLPK


 D MVARTGRRMNTEMGHPWIFRDAVHEDRLLGNGQE\|FMSP
 DI NPGKSLQMNTYLTHPWMFR ASDGAKLLVSFSEVYFPA TLPPGTGRR\|HSY
DI PS QRALSI NTYQGHPWLFRDATTGDRLLRNRRDVF LPE


 VPSCARRARLRRPGGHLWLFRDAGTY DGLLVNQTELVVPS DLS S GDYREI NTFYTHPWIFVNKETGDRYLVGQRDVFFPA


 $T L K P K T G C M V N T Y V T H P W V F K D R Q S D E R M H V R H Q P V V G P E$




 DLL P G G N Y R E I N T F A T H P W W Fir R


 TLEPE EFFDVNTYVAHPWLFQDALTHERLNANSKDVFQPN

 $V L Q P G T G R R M Y S Y L$

THPWLFRDARTGERMHVKHQD\FWPQ ELAQGQQLNMHTYEGHPWIARDKLTADMLHGVGKLVYMPE TLAPRRWLD I Q TYKNHPWVARRSSDGCKVMMNKQPIIFWPE

 TL S P G D S Y D V Y T Y V
 $D L Q P G T G R K M T T F V G H P W M F R D A T T D E P L K V N G K E L E F L P K$ MF R DAE T D DPLKVVNSKELGLPK

 A L E P A A Q V $\operatorname{P}$ V N T Y V T H P WV F D D R F T G E R M L V K S K P V

 T L T P G A Q CK TN T F T N H G WI F F D K D T R E L M H V N H S K I F WP K



RLK P D HE F AV QT FVGHPWMAFDSKYRYRMGFSKTFVVFPS

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UniRef90 ${ }^{-}$W5K3R3 UniRef90＿U6DNK8 UniRef90－J9P805 UniRef90－UPI00045DB925 UniRef90＿C0H9J7 UniRef90－M3ZI59 UniRef90＿UPI0003BBC06B UniRef90＿H2TV67 UniRef90＿H2L7M5 UniRef90－K7FJ48 UniRef90 R4GLJ6 UniRef90－V9LBV6 UniRef90－W5NH02
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## $\square N V D G Q P \square$

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\begin{aligned}
& 100 \\
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& T \text { T P VY T L K E R CLQ VVR S LVK P E N YRRLD }
\end{aligned}
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$\begin{array}{lllllllll}P & A & P & R & N & L & I & H & C \\ P & V & 1 \\ P & W & N & G & K & P & T & V & R \\ P & \text { W R I } & E & R & T & N & V & Y\end{array}$




$\begin{array}{lllllllllll}P & E & H & H & E & V & R & T & R & A & F \\ K & P & C & D & G & K & N & V & E & V & F \\ A & W & Y & E & P & K & R & V & T & V & N\end{array}$

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## P P N F EARI RAVI

K
 P MPPNVVVRCIMKI NAQSLREDAERSLIQYQPSFINRHIN P T A H A N R S Y C N IT L L K DQ S L R E E I A C C H T L L H E T P S E I M E QL

 P NVN
P TEG VIANI T L P
$P A G G G N V T Y V N$ S $\operatorname{S} L P V Y S L K D R A L Q V T R R L V R P N N Y R S L E$
 S NDQV IR I PI PI
P WAE E H R T R R L
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| $T$ | $Y$ | $Q$ | $M$ | $P$ | $D$ | $P$ | $A$ | $E$ |
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| $I$ | $R$ |  |  |  |  |  |  |  |
| $T$ | $Y$ | $K$ | $P$ | $T$ | $T$ | $R$ | $K$ | $P$ |
| $F$ |  |  |  |  |  |  |  |  |


RSERLT RLLQVLI TEPVYSLKSLCLGVLCLSASDDDVQEL


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UniRef90_UPI00020F718F UniRef90-M7BEG1
UniRef90 UPI0003C2B605 UniRef90-A9ULN6 UniRef90_UPIO003BC6254 UniRef90_V8PBH2 UniRef90 ${ }^{-}$W5MZ44 UniRef90-H3BH23 UniRef90_M0R5L8 UniRef90_W5K3R3 UniRef90_U6DNK8
UniRef90_J9P805 UniRef90-UPI00045DB925 UniRef90- C0H9J7 UniRef90-M3ZI59 UniRef90_UPI0003BBC06B UniRef90 H2TV67 UniRef90-H2L7M5 UniRef90-K7FJ48 UniRef90-R4GLJ6 UniRef90-V9LBV6 UniRef90-W5NHO2
UniRef90_V9L9P1 UniRef90-A1L296 UniRef90-B3DHE4 UniRef90_K7BJQ4 UniRef90_Q17M73 UniRef90_V3ZNG3 UniRef90_W5KVI1 UniRef90_G3WUL5
UniRef90_C3YK36 UniRef90_UPIO003ACC769 UniRef90 F4WF33 UniRef90-E2B9A0 UniRef90_UPIO0033159A0 UniRef90 X1ZB33
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[^1]

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RRFP HTAVVFIVQKVPTLFEAAVEHIGELFHEQQYALYK

PRNPQQPSEILI HLPLRTLKEMCLCWIRKLAKEPRIDGYM
PPPPG

$\square \mathrm{DRMS}$


L GPNGKFAVAE $\square$ RKAPE $\square$ I KEDGERE LIKHTLK
1 P S NQQ
$\xrightarrow{I} P S N Q Q R G T A R$


P

EDEHEEVTFV
RQGS R RVVSLVIT TP
RQGSRRVSLVITTP
TPYREVVI Q
YDRDGHNVYVA $\square$ S $\square$ YAHS LLLQTA $\square$ QEVAVLIDNYTVENLP
ANPARAVIR

E

V S A P A R VTQV
$\square$ LID G
GEED




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|PAS Q \squareK A \Q NLL
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