## QUERY

## UniRef90 V9KA14

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 PFFVVKGEVQKAVNNAQGLYQRWTELEECDWTTNELRNS
 $\begin{array}{llllllllllllllllllllllllllllllllllll}P & F & F & V & V & K & D & E & V & Q & K & A & V & Q & T & A & R & G & L & Y & Q & R & W & C & E & L & E & E & L & D & W & T & N & E & L & R \\ P & F & F & V & V & K & G & E & V & Q & K & T & V & N & T & S & R & G & L & Y & Q & R & W & C & E & L & E & E & F & D & W & T & T & N & E & L \\ R & N & S\end{array}$



 PFFVVVK DEVVQKAVVQNATGGLYQRWCELEEVDWTSNEELKN S

 P F F V V V K G E V $W$ Q K A V

 P F F VVVK D E V C K A L L N K N R GLLY GRWT E L Q D L E WT T T E L L R K A
 PF FVVVS EVVEKSINNCRELHSRWRDMGDYDKVSNDLRNG
 PFFVVKDEVTKALNRTRGLYQHWQHLRKVQKTTAELRNS P F Y V V K A EI Q D SI D K L Q S TF H Q WE S AA E Q G H LT K EV L A G





 D P WP I | $P$ | $F$ | $Y$ |
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| $P$ | $F$ | $F$ |



PF LQVQA P F F VV K K E E V $V$ QK A


 D P F L Q V Q A D V L S A L N N T R S L F S S Y L R I D P Y Y F GQ S N L QQ S I K G L Q A L H Q R WQ A L E EFR WS Q N E L K R I


## QUERY

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KLPA GD LQERKVFVE ${ }^{80}$
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| $L$ | $Q$ | $S$ | $N$ | $P$ | $K$ | $K$ |
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| $V$ | $F$ |  |  |  |  |  |
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| $V$ | $E$ | $N$ | $P$ | $R$ | $K$ | $F$ | 

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RMREAVQEMKDHMVS STKQUVKDMKDHMSS $N T R D E V R Q M K E K M S$ RTKMTVKEMKEHLAN RTRETVKEMKDHISS STRVVAVKEMKDQMS GTRRTVQDMKEQM ETRQCVKDMKDRMTS H T K D M V K DMKEHMAS H TRDEVKVMKDKMN ATKQEVKNMKSKMS RTRQSVKEMKDHMAS STRQIVRDMKDQMSA QTRDSINS DKDHMNS QTREEVKTMKDKMN GTR QTV K EMKDQMSS D T K E EVKKTMKDKMN QAREEVK $\quad$ KMKDK L N K T K T TVVDMKS Q I S S QTREEVK DMKDKMN | $R$ | $T$ | $K$ | $A$ | $S$ | $V$ | $K$ | $E$ | $M$ | $K$ | $G$ | $A$ | $L$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $Q$ | $T$ | $R$ | $N$ | $S$ | $V$ | $K$ | $E$ | $M$ | $R$ | $D$ | $H$ | $I$ |
| $S$ | $S$ | $S$ |  |  |  |  |  |  |  |  |  |  | ATRNRIVEMKNELN QMRDSVKEMRDHISS TART QVSSMKKAVLS QTRDEI GN $\square K E K L Q$ SARSQVGTMKKAMES NARTQVRNVKS

QTRTAVQEMKQQLSS
LT REEVVKHMKDKMN
TAHNQVGRTRRTV
D A RTQVSTAKKAVQA T A R A QV GAVKKAV NARTQVSTVKKAV QTGEEVKVMKDKLN $N A R T Q \vee R T I K R T V E A$ STRQIVRLIVEQ
DTRQVVINKMKSHMSS
 NARNQVKNVKK
NARAQVGSMKKAVVA $T A R \square Q \vee G N \square K K A V T A$ SARTQVGTMKKTV $H E M K$ D H MVSS
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SAHKQVGTVKRA I
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TAHA QVGAVKRAVEA
T A R N Q VVS $\quad$ R R Y !
$E V G G E V E D M R E E L A$
ETRD IVNSVKS QLQ
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DVGDEVE GMRREL

$D V G R E I D C M R A E L V$
ESRAAVDDVKRDMSS E IS NEVDDDMQE ELSS EVVEGEVGBMREENNA
 Q A R E
$\square$ A K
CMREAVQEMRDLMV
EVGGEVSDMREEL

| $E$ | $V$ | $G$ | $G$ | $E$ | $D$ | $D$ | $D$ | $H$ | $D$ | $E$ |
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 DVGNEI EKMRQELLQ
 QTRRQCE GVMRSLEA
DVGAEVASMRSELA
$\underset{M}{V} \underset{T}{V} N E V E D M R E E L$
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RMWEA EMRDHMV $P S$ L S IQEMRDDH S S DVGSEI EDMRRQMQS
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| UniRef90-M4D1E5 | Al ENQI HRVQSALS |
| UniRef90-W9R2Q8 | AI GSQI SRVEATL |
| UniRef90-UPI00042B1C42 | AI E $\square \mathrm{Q}$ I CRVED |
| UniRef90-B8M9H0 | DL G REV D D MVS E |
| UniRef90_Q6CFL8 | QL M S Q G QVQ K EV |
| UniRef90-U5GDW6 | AI ESQI SLLEAA |
| UniRef90-K6UEB5 | NI R TVLNDIS S NL |
| UniRef90-A9CM19 | A MEAQI SRVEAAL |
| UniRef90_W1PI53 | VIENQIARIEKA |
| UniRef90-H3G6U1 | TTRKELQAVRDE |
| UniRef90-UPIO002B440C0 | A $\square E D Q 1$ SK TQS SVQ |
| UniRef90-T1FYW7 | STKA\VE |
| UniRef90-W7JN40 | R N |
| UniRef90-D7FKW1 | DSKQVLLRASDA |
| UniRef90_W3X0Q1 | EVGGGEVEDMAEELA |
| UniRef90-A0A022PZI1 | VI EDQI SRV |
| UniRef90-D8QHR4 | HVRREIENMRAEVS |
| UniRef90-E2BNQ9 |  |
| UniRef90-V4KS38 | A METQVAK\EK |
| UniRef90-M5XDS8 | A $\square$ E D Q $\\|$ S K I E $\square \mathrm{SL} \mathrm{L}$ Q |
| UniRef90_E9IG91 |  |
| UniRef90-FOZDI6 | DVRTQTNRTK S SLN |
| UniRef90-UPI0002B4B28E | A I GNQIS HVEAAL |
|  | $A \square R D Q \square A H V E A A \square Q$ |
| UniRef90-UPI0003F494ED | KVKREVD |
| UniRef90-M4D370 | VMETQVAK】EKSL |
| UniRef90-T1L019 | ETREEVKAMKDDI N |
| UniRef90-R1CDX6 | D S L R T CREMREEL |
| UniRef90_11M6Q9 | DARTQVSTAKKAVQA |
| UniRef90_S8CNM9 | A MKA QISVVETAL |
| UniRef90-F2SZ16 |  |
| UniRef90-M0TBM1 | A $\square$ E N K $\square$ S E V E |
| UniRef90-U6GV23 |  |
| UniRef90-K4ABS1 | A T G Y R I Le Ve N NL |
| UniRef90-D8QTT5 | A I Q S QVCNMEKEI |
| UniRef90-M0YF07 |  |
| UniRef90-U5FTK7 | A TE D H L R \e NSL |
| UniRef90-UPI0002659746 | AVKNEVYQMKEAV |
| UniRef90_UPI00042AC306 | RADQEVQEMKDHXS |
| UniRef90-I1H8D1 | A $\square$ G HRILEVENNL |
| UniRef90-W1PC20 | GARNQVATVRKALEA |
| UniRef90_S2JFT3 | T S R N NI QVI R N T L A N |
| UniRef90-F4PQ72 | EANATLDIIKQDFNS |
| UniRef90-M0SMV6 | A 1 GSRI SALENSL |
| UniRef90-F6HKL1 | A I R E Q V VHVEK SL |
| UniRef90_V4UQP4 |  |
| UniRef90-J3N1W8 | A $\square$ G D R I Le VEN S L |
| UniRef90-UPIO0045613DB | ECEDEI ${ }^{\text {A Q }}$ |
| UniRef90-C5WTQ9 |  |
| UniRef90-J3LL80 | A 1 G Y R I L E VEN N L |
| UniRef90-U5CTA2 | AI REQI |
| UniRef90-UPI0003D79232 | AI REQI NQVEKSL |
| UniRef90-F8NH89 | RI RHEI EDMRAEV |
| UniRef90-J4HXH2 | HVRQEI ETMRAEVES |
| UniRef90_W7ADM4 | NIRSUL NDVESDLT N |
| UniRef90-S6AYY8 | EFRSKIKGVHD |
| UniRef90-B9SRY0 | A 1 R E QV N HVENSVA |
| UniRef90-A5DI55 | QL DAKVTSISKQWS S |
| UniRef90-S9X713 | DLDVEL N NLTLQMNA |
| UniRef90-B6AIG6 | D YKQII GE YKLDM |
| UniRef90-S7RHY7 | RVRREI E GMRAELAS |
| UniRef90-U5GC76 | AI REHI NEVEKSV |
| UniRef90-A8NBG8 | HVRKEI ENMRNEV |
| UniRef90-Q4N7H4 | EFKSKLNG |
| UniRef90-M5G0F6 | EVRKDI D T M RADLS S |
| UniRef90-Q9HGN3 | ELD ITEL N NTQLK M |
| UniRef90-Q6BJ70 | ELEVKIRSLQND |
| UniRef90-G3APN5 | DLDRRASELKS Q |
| UniRef90-M2QEP5 | HVRRElE S MRaEves |
| UniRef90-M5W8T8 | A I R E Q |
| UniRef90-F4S347 | KCEGELKRMLDEVN |
| UniRef90_A0A024J7Y6 | NLTN S QLT D I Q E S I A |


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