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S HASL
SY EGTEDLTEAKE\|VIKAN AESGGAAPEELETAKLALAKGK QDKSSSDPDDITKAKE
TYNGNEDTKEAKEA $\square E$ T
SDSAYEGTPE
SFKE DQSEDVTAARE TYAEA HEEKSDELEQWNEALELVDK

ECALEECQEDNDARAQ!EA VHASLADTDEFRQAQKVLNDVQ E
TETD $\square$ ADTEEYKVATELLKT $\square$ A $V$
EEDGSRDVELLRSAHESVEE
EHKDKDDGSEWIESYEIVD

S Y E GTEDLESAKAALETADE



| UniRef90_A7TMF3 | $\text { TYQGNES } 90 \quad \text { ANK K } \quad 100$ |
| :---: | :---: |
| UniRef90-C7YH92 | S EQT GGQEEQVQLA KETLEKA |
| UniRef90-W9Y665 | TATN DEERSKAVEVLKSA |
| UniRef90-M7WHA3 | STEDLAETDEFRKAEAALKLLAK |
| UniRef90-E4Y0B1 | DDEADKSTKEWVAANDKLKEV |
| UniRef90-B0CRQ2 | K ESELAEDPAL |
| UniRef90-G9MKN0 | SEEGNASAEELANAKAALEKAK |
| UniRef90-A5DH46 | NYDGDEDTSEARA |
| UniRef90-H2AN90 |  |
| UniRef90-B2VUQ3 | GNGGEAPEEEVTKAKEAI A QGK |
| UniRef90_S7ME85 | NEKELEEAEEYKEARLLVLDSVKL |
| UniRef90-A0A024TTZ9 | QVPE GS E WP C $\square$ D E A K ELLA A |
| UniRef90-W2S914 | D D |
| UniRef90-G0U9D0 | GDCESLDAELVQDS GK T LEA A |
| UniRef90-B7QCZ5 | SVPDLAEKED |
| UniRef90-S2JTG9 |  |
| UniRef90_Q75JC8 | EHKNEDDGSEWKDSYDIIDQU |
| UniRef90_M5EBX0 | SVHD |
| UniRef90 W7AHJ3 |  |
| UniRef90-U6MTH3 | E N S G |
| UniRef90-G1KPL8 | N E K E LEET D E Y K D A F S VLES $\square$ K $\square$ |
| UniRef90_G2Y105 | RGGDEAEEQKA |
| UniRef90-S9V432 | K E R |
| UniRef90-T5A6U9 | VGE G G N A G D Le H A R A VLK E A K |
| UniRef90-B5G0F2 |  |
| UniRef90-B6H2B3 | EGKKGSESEHTT A AKEA ${ }^{\text {E A Q AK }}$ |
| UniRef90_COSHW6 | EEGKESNMSDIDAAKEAIA QAK |
| UniRef90-D8RW86 |  |
| UniRef90-C9SHJ6 | A ESNGTPAEELELARVALTKGQ |
| UniRef90-D1FPP3 | A EKDLKATEEYAAGLKALEDAK |
| UniRef90-F4RXF5 | HEEEWAGTEELLKAKELI K D |
| UniRef90-V2XAJ3 | KEPHLDAEDAELLNAEGVLEEASL |
| UniRef90-M2NB71 | Q ${ }^{\text {K G P G }}$ |
| UniRef90_LOB212 | EESDVLDSKGLEMAKESL |
| UniRef90-UPIO004411165 | QDSALHEMDEY L K A E EALEEAND |
| UniRef90_U1GP73 | SAP EGDPDVAKAREVIEQAK |
| UniRef90_Q2HDX6 | S ESDGTGPEE |
| UniRef90_Q7RK44 |  |
| UniRef90-F0XRJ1 | ES S GAAADTELEKARA $\square$ |
| UniRef90_U6GHL5 |  |
| UniRef90_1719Q7 |  |
| UniRef90-A0A016X247 | E S GLEECQELT D A K A Q $\square \mathrm{E}$ A A |
| UniRef90_U4LUI3 |  |
| UniRef90-K8EIL2 |  |
| UniRef90-M1V9F9 | SFAGAADESDTSRAEVLLQ |
| UniRef90-R8BYB6 | SES DEGAPELTKAKEALQQGQ |
| UniRef90-10YUR7 | G L K |
| UniRef90_G4TCF9 |  |
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| UniRef90-M4FVA6 | ESSGGASDDELKKAREALAAGR |
| UniRef90_S3CM05 | EGKAKGGKEEIAAAEETVGRAK |
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| UniRef90-G0R6U7 | A E E |
| UniRef90_UPI0001F26DF9 |  |
| UniRef90_A0A017SM51 |  |
| UniRef90-UPI000203AD14 | NEKELEET D E Y K D A S S V Le S $\square$ K $\square$ |
| UniRef90-Q4N1V4 |  |
| UniRef90-U7PYJ1 | READAADADELDKARAV |
| UniRef90-M1W1X3 | LAEEAGGAEGLDNAKKVLGEAK |
| UniRef90-W9CFK2 | RGGDERDE NKAKEVIAAAK |
| UniRef90-M2TC07 |  |
| UniRef90-F6PJC2 | MKSEGGDEEEYKDARSMLDSVK $\square$ |
| UniRef90_A0A058ZGD3 | ARAS EVAEFKEAAATLEQV |
| UniRef90-V4AB67 | NEKDLEESEEYKTAQTALT DAK |
| UniRef90-K0KNG6 |  |
| UniRef90-M7TJE1 | E G D G G P A DEDAKAKEA $\square$ E |
| UniRef90_UPI0002B44C40 |  |
| UniRef90-M2X5A3 | QMETLRGTKEWEQSETLLQDA |
| UniRef90_U3K5Y0 | NEKELEEAEEYKEARSULESVKL |
| UniRef90-V6LN48 |  |
| UniRef90-L1JR82 | E A G D LK G S A Y E E A E G L K A |

TYQGNESLDD
A NKIIE E
SEQTGGQEEQVQLAKETLEKAK
STEDLAETEEFRKAEAALKLAK
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K ESELABDPA L
S Y GNASAEELANAKAALEKAK
R
TYSG DDTIDAKETITKA
GNGGEAPEEEVTKAKEAI AQGK
QVVPEGSEWPCDDEAKELLAA
D D
GVESLAELVQDSGKTLEAA
ENSENAD DDEGQEAQTVLSET
EHKNEDDGSEWKDSYD! I DQU

ENS G
NEKELEETDEYKDAFSVLES $\square$ K $\square$ RGGDEAEEQKA
KER

EGKKGSESEHTTAAKEATAQAK EEGKESNMSDIDAAKEA IAQAK A ESNGTPAEE $\square E \square A R V A D T K G Q$ A EKDLKATEEYAAGLKALEDAK
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KEPHLLAEDAELLNAEGVLEEASL
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ES G LIE ECQELTDAKAQ DEAA
T L VEGKEDEEFRDAKEQVERVK
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I SESDEGAPELTKAKEALQQGQ
KEKELEEAEEYKEALS ULESVK $\square$
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EGKAKGGKEE!AAAEETVGRAK
AEE
E E

READAADADELDKARAVL
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MKSEGGDEEEYKDARSMLDSVKL ARAS EVAEFKEAAATLEQV NEKDLEESEEYKTAQTALTDAK

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LLDTATNEDERNAA $\square E V L K A A K$ AEQAAAPGAE $\square$ AQAKTVLAQAK

S
E EASESNDAEDTAAKEATAQAK AAEQAGAPEEITQAKTVLAQAK GTESAEQAEAVKESDE
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UniRef90_W5H123
UniRef90-G0SBN5 UniRef90- J3NXQ4 UniRef90-W5GAT3 UniRef90-LOPE16 UniRef90-V5I5T4 UniRef90-N1PK62
UniRef90-B4N228 UniRef90-W6KHC1 UniRef90 E1ZJ39 UniRef90_R9X918 UniRef90-A4HKU0 UniRef90_J3KI29
 PP D L P LS TATAAVQRLVKEEASYHRELKQQEDRTKRLEAD

 PPTPLERATNSVLRLVKEESYYHKELAHQETRUSKLQTE PPSPLVIAT QALNRLMREELRSYEEEVEKKAAKTAAMKER PAPSPLAI ASQSVSRLVVKEEAYYQNKKVEEERAKLSADAT
 PAPSODTATAS $W$ R REEASYHKESQHOODRDEKDED

 $R T L K V K T G V V K R L R K E L D M Y Q Q E V Q T E Q A K V Q K L K N E$
$R \square H P \square L K A V S S \square N R \square V A D E A S Y H A E L Q E R E K L L E T L K E D$

UniRef90_B8NBV7 UniRef90-J9MCE8 UniRef90-G8JNM5 UniRef90-C6HTA5 UniRef90-A7EX03 UniRef90-B4MAA4 UniRef90-W0T825 UniRef90-B2ABE2 UniRef90 W5H123 UniRef90-G0SBN5 UniRef90-J3NXQ4 UniRef90-W5GAT3 UniRef90-LOPE16 UniRef90 V5I5T4 UniRef90-N1PK62 UniRef90-B4N228 UniRef90-W6KHC1 UniRef90-E1ZJ39 UniRef90_R9X918 UniRef90-A4HKU0 UniRef90-J3KI29

 GNREYMLKQEHQALEETKKVLPNMKQK』LES $\square A K V D H L L V$ ENREYSLKQER
 SNAPYMLKQEQTALEETKAVV
GADPYDLKQQENVLAESRMMIPDCKRDEATLAELEATLAE
 Y ADNFMLKQLETGARETEAVFGPL
GEDEYVL RKQKQVI NECWRMI PDTERRLAYALEKLRQ $\qquad$ ENAEYTLKQERKA
G IDDQCRLRAQEQVCKKVQSMLPRDVYKMRNDVERDERFDH I PD D RVSQQENVLNEAKMMVPHSTNRIDRTALKDVSDYLN GADPHDI KYAENILAESSAMLPDTRQRLEEAFRELQ
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D P DRVSQQTQVVDEAKMMVPRSVNRIMAGVKDLSDYLE

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lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
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c c c c c c c c
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```
c c c c c c c c
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EEGKKSNVEH|I INAAKDA|I SK KAR VSEELNAPEDVVQAKEALVKAK GDYQGDEDTTDAYKVLDSAK EEGQGSNVAD $\square$ NAAKEA $\downarrow$ S QAK REKA L K G
$S Y$ EGTEDLEPAKAA $\square$ AEA पKESGEQGVEDGEAESA】TEV $\square$ SESDGGAPE LQKAREA $\square$ AA GK EEGDQSNDEQDNAAKDAVAQAK TEK
KEKEC $\square$ NDEELNEAEEVLAE
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