## QUERY

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UniRef90 K8RBW7 UniRef90-W0SBU6 UniRef90-D5CMU4 UniRef90-W4NQK UniRef90-D5CIL7 UniRef90_UPI0003708259 UniRef90_D9SET9 UniRef90-R9VKK9 UniRef90_19W2L7 UniRef90_UPIO0036DC3F6 UniRef90_UPI00036BA29C UniRef90_UPI000399FF48 UniRef90_UPI0002ECCB06 UniRef90_UPI000464469B UniRef90- W4P0U6 UniRef90-A0A014MBY1 UniRef90-UPI0003471552 UniRef90_UPIO0036B9B85 UniRef90_UPIO002899BAO UniRef90-UPI0004691974 UniRef90-Q2NX29 UniRef90_UPIO00382876C UniRef90_A6GNZ3 UniRef90-F1W2Q9 UniRef90-K8RE65 UniRef90_F7Q522 UniRef90_Q2Y9G3 UniRef90-Q1LMQ5 UniRef90 C6XBW6 UniRef90-R4WM13 UniRef90_UPI00036F2D30 UniRef90 F9ZJO5 UniRef90_U2HKH3 UniRef90_C6WW73 UniRef90_UPI0003787AB8 UniRef90-S2KQC4 UniRef90-C1DHM2 UniRef90-B2VDV9 UniRef90_UPI00037F2C97 UniRef90-A4TLK8 UniRef90_UPI00036A299A UniRef90-TOAYL8 UniRef90-A0A016XDN2 UniRef90-UP10004745700 UniRef90_UPI0002377372 UniRef90-W7NWC2 UniRef90_R9VM64 UniRef90-J2UHY9 UniRef90-UPIO003636376 UniRef90_A1K5F8 UniRef90_U3QVA9 UniRef90-UPIO0036A6CD1 UniRef90-JOAYC5 UniRef90_UPIO0035E3975 UniRet90_B3RALS UniRef90-UPIO0036983D4 UniRef90_K0CDI7 UniRef90-A1WJ06 UniRef90_E7RX62 UniRef90_UPI0004778ECF UniRef90-W8X417 UniRef90-K2G2K9 UniRef90_Q46TH0 UniRef90_A0A023C3F0 UniRet90_F2LSE4
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## 1

 M S T S E I L K H I Y D I N L S Y L L L A Q R L I H D D K A S A M F R L G I D A
 MRNSETLNEI REDNLSYLVLAQRLI REDRAAAMFRILGI S D





## M

 MSTEEEI LDE S I MKSTDTYNDI K

NF D E Y L E Q Q MKMDEMLDEMRDNLS MDTMQLQEGDRDINL MK T
M N D
 M

M $M N N S S E L L A D I:$

 MNDEQLLQE MKSEQLLAEI REANL  MK STETLLDSIR MSYNEHLQN MS S D N LL R N I MSHTNFLD | $M$ | $K$ | $A$ | $N$ | $E$ | $L$ | $L$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $M$ |  |  |  |  |  |  |  |
| $M$ | $D$ | $N$ | $N$ | $M$ | $M$ | $A$ | $E$ |
| $M$ | $N$ | $S$ | $S$ | $E$ | $S$ | $L$ | $D$ | $M N S S E S L D D S$ M Q I N ELLTAE $M E V D D R V I S I S D F N L$

SHTNNTMSDIIK
T S MQT D QML

 $M N V K D M M S E L$ MHNNDS LL MSTSEELLK K MDRPDFQAE
$M T D E Q L N A E$


SENSLLND MNDRETLDS
 $M T S E Q M L$
$M N E D N V L I$ MLQEQLLAE MNEDRILAE

 $M \square T \mathrm{~S}$ L $\mathrm{N} D V R E V N L$
 NTNTELEDI QDLNLSYLLLVQRLMRQNEAEALERLGIGK D TA $A$ MDRPDFQTEDRELNLAYLMLAQQMLRSDRATAMFRLLGUGD
 M G T S E L L K H I Y D I N L S Y L L L A Q R L I N D E K A F CK VF V G G DQ SENNLI NEIREVNLSYGLLAQRMLRDDFSKGMYRLGLDK


## QUERY

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UniRef90_K8RBW7 UniRef90 ${ }^{-}$W0SBU6 UniRef90_D5CMU4 UniRef90_W4NQK7 UniRef90_D5CIL7 UniRef90_UPI0003708259 UniRef90_D9SET9 UniRef90_R9VKK9 UniRef90_19W2L7 UniRef90_U5N530 UniRef90_UPI00036DC3F6 UniRef90_UPI00036BA29C UniRef90_UPI000399FF48 UniRef90_UPI0002ECCB06 UniRef90_UPI000464469B UniRef90-W4P0U6 UniRef90-A0A014MBY1 UniRef90_UPI0003471552 UniRef90_UPI00036B9B85 UniRef90_UPI0002899BA0 UniRef90_UPIO004691974 UniRef90_Q2NX29 UniRef90_UPI000382876C UniRef90_A6GNZ3 UniRef90_F1W2Q9 UniRef90_K8RE65 UniRef90_F7Q522 UniRef90_Q2Y9G3 UniRef90_Q1LMQ5
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UniRef90_W7WGJ0
 D MAETVVQLTMLPQMVKLAETNQLVCQFRFEDHQTIQRLTGQ E TAAD S L L
 S MA E T L $L$ Q K L T T M A Q M V V
 A MVDV L S K L T L P Q L I K L A E $\square$ N Q L I C H F R F D D H S T V E R L T K

 AMAT TLANLTLS QLVKLAETNQLICQFRFESSETIDEKLTR $D$ D A D I L D K L T N S Q L L K M A G S N M L L C R F R F D D S L I A E I L T S
 El A DVLGRLTPGQVLKMASSDMLLCNFRFEDTLLLDLLAN ELADLIVGLSPA QMLKMAASNMLLCRFRFDERLLLINMITD QV A





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 NTADLLD QLTTAQVLRI A A NDVPMCSDRFEDPAVWKLLCD E I A D L I A GLLN N A QL L K L S G T S M M L A R F R F E D GA I L G M L T N
 D MADLLSQI PVADLAKLARCNQLLCHFSLDSAEQLIFALVN D I A DIL E V L T P G QI L K L A N S NMML CR DRFD DNLVFGML AN E V A EI A DVLESLTTAQLLKLSSTNMMLARFRFDDCAIL NMLTS QVA QVLSSLTLA QAVKVASSSHLLCRFRFDDHTIL S S L A D EVVA D L L L R L T T A Q L I K L A S S S S L L C R F R F D D Y N L L S A L T Q
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 R MA D L M A S L S V K QL S QMA R S N QL L C R L A YVVDP D QF Lik L S G T M A D AL S Q L T L P QMV K L A E T N Q L V C H F R F S D H N T I H H L T N E L A A DV $\operatorname{V}$ I
 DVA T T L L Q L S P A Q i V K L A S S G L L I C G F RLLD D Y G L L S A L S Q


 E LA D L L G S L S L S Q L V K L L A G S S L L L C R F R F D D H PMML S A L T L
 EMGCALAALTPAQMVALARSNLVLCRFRLDDSRLLAGLA ELLA DLLLAN M S L S Q I V K K L A A S N F L L C S F R L D D R P M M A A V DVAETLLLRSSPAQLVKLASSSSLICGFRFNDYDLLTTTLTQ ELADVL SGLS LAA QTLKLAA GDHLLCRFRFKDHGMLRALTA EVGRLLASLTPPQVVALARSSLVLYRFRLDDSLLVASLTG
 ESADI L A ALSAA QVMKLASRSTVLCRLGVD DNLVWGLLTN
 D MA D L L L L L S A R Q LTR L S R S Q QLL CHFS P L GAERLRRQV T D
 DVAE I I L N L S P A QIVVRLASSNSVLCAFRLNDAQLLNSLTH


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QUERY
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$1 \quad$ KN10 ${ }^{10}{ }^{20} 40$ MNTE KNLYEMNYTWLSLA QKMLLKDKSDAMFRJLGLINA MDHNETLREI REVNLSFLSLAQRLARDDSPKAMRLLRVGE MNTTSDLSAI RELNMSYLMLARRVLASDREAAQSHLGLSA GRDEFLQEIGEVNDAYLQPGAATGARNPMEAMLKGGVSK


NAE TERQ TWHHNTSYLLLAQRVLNHYEDTADFRTGTDK EQDDISDADAEFNRSYLMLAKWMGLTNRDEAMRQLGUTK NSPDLLRDI HEANLMYLLLLQRMARSGDGASLAGSPMSA ENLYKLNLDYLIVAQSLIFSGSEQAMFCLGLTN
 $E Q D D L F G A L E A L N G T Y L G L V Q Q M L Q \square D R E V A A R E L G U S N$

HNNETPDSTRDTNPSCLT LAAR LLRDDREAGMFRDGVSA MTTNQQDFYQLNDAYLHAARELARDDPQEAVLRFGLTA


METDNT
E
EETDVL

 QELYDLN LLA WLVKVRALARENALQALLIMGVTD

 MYLLLLQRMARTGDLPALAGMQI SA
 E S L VGS I H QL N R A Y L H TA R D L L R S GQDRVV EA LGGLD G S T L E E D L S Q L N F E Y L M L A R E A V R S N A L E A A WR F G L N Q





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UniRef90-X2H800
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D S R V D H LT PMHAAMLCLT
RSNEAAASAVANDVLLAA
A IKNREMQ
D GLD
R G R
HPAPESATRLLAD ILLA
ATPPVDLVRVHTAMALA

D S R $\square \mathrm{S}$ D $\square \mathrm{K}$ QMHTG $\square$
EGRDSVSAGLH

NSRELGMVETHSALLMAA D S R V D DLQQUH T GIMLLS T

VEKNED $\mathrm{NPREQGLSH} L H S S L L M A$

H T K D R $\square \mathrm{MA} \square \mathrm{PH}$ HA $\square \mathrm{L}$ MA
$K S K G T G \square P R \square \quad A Y L L S T$

DS PVEAMLGLSGA
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm


D SRE
KTPQH $\square$ APS $\square H S A L L L P T$
jpssm


[^0]:    lupas_21
    lupas_14
    lupas_28
    jnet
    conf
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    jpssm

