query
UniRef90_UPIOOO3C1965C Uniref90-UPiooot446874 UniRef90_UPIO0033180EF UniRef90-UPI00032AED30 UniRef90_UPIO0045DAEEC UniRef90_Q0IHL6 UniRef90-W5MWD9 UniRef90 A2BGU5 UniRef90_UPI00029DB042 UniRef90_UPI0003C869C8 UniRef90 S4RDC7 UniRef90_UPI0003292E4E UniRef90_UPI00034FB092 UniRef90-S4PLC5 UniRef90-W5JZH5 UniRef90-D6W9S8 UniRef90_UPI0003F0D943 UniRef90_G6CY80 UniRef90-N6U1J4 UniRef90-H2ZJC6 UniRef90_E9IWN2 UniRef90_UPI00021A6A13 UniRef90_G5APL5 UniRef90-F4X375 UniRef90 A0A026WFD1 UniRef90-F7BHN2 UniRef90_E9G9A5 UniRef90_A21465 UniRef90-B7Q9E5 UniRef90-E0VW23 UniRef90_A0A034WNT8 UniRef90 K1QIF2 UniRef90 C3Z5M6 UniRef90-V3ZXUと UniRef90_T11201 UniRef90 A0A023GK66 UniRef90-T1KSU0 UniRef90-H9GSD5 UniRef90_V8N9W8 UniRef90 F1LBX6 UniRef90-UPI0003593672 UniRef90_K7J198 UniRef90_D3TQ44 UniRef90-A8HG18 UniRef90_J9JW38 UniRef90 A0A044UI58 UniRef90 Q7QAV5 UniRef90-UPI00035974D6 UniRef90_U5EPG6 UniRef90 H9J9S6 UniRef90-I4DNU5 UniRef90-T2MG91 UniRef90 A7SWE5 UniRef90_A8QDU7 UniRef90-E1FKC9 UniRef90_U4TYI3 UniRef90 G5EF26 UniRef90_G0PMT7 UniRef90_U6PWG2 UniRef90_C1C100

AEFEEPRVIDLWDLAQSANLT DKELEAFREELKHFEAK TE SEFTEPRVVELWDMAKAANFTDDELDSLKEELKHFETKVE $\begin{array}{llll}R & V & L \\ R & V\end{array}$ EL W

$\qquad$

EF I E P K VQ GLWWK T A LEE A K F S P E E L A S L

## E D D E D $E$ $E$

 WK VV
 A S
 $\begin{array}{ll}\text { E F VE } \\ \text { D F E E } \\ \text { E } & \text { IVE }\end{array}$ -ー D FQD
$\qquad$ F V E E

## S D <br> S

E
$S$
D
EE F
G
GE EFIE MAAAA
D K RVVVDLWNKAKSTKFSDEELKS
EFSDHRVMELWEKAKKKGFTEQELHS


PF NEPRVKRLWKLA QENKLTPHELSVLKDELSHFESQL K
 EF SHP E V Q DLLWRFALDGNFS T D ELLE GLLK K ELLRVYEK RLLN

[^0]

UniRef90_UPI0003C1965C UniRef90-UPI0004446B74 UniRef90_UPIO0033180EF UniRef90 UPI00032AED30 UniRef90-UPI00045DAEEC UniRef90-QOIHL6 UniRef90_W5MWD9 UniRef90 A2BGU5 UniRef90_UPI00029DB042 UniRef90_UP10003C869C8 UniRef90- S4RDC7 UniRef90_UPI0003292E4E UniRef90-UPI00034FB092 UniRef90-S4PLC5 UniRef90 W5JZH5 UniRef90-D6W9S8 UniRef90_UPI0003F0D943 UniRef90_G6CY80 UniRef90-N6U1J4 UniRef90-H2ZJC6 UniRef90 E9IWN2
UniRef90 UPIO0021A6A13
UniRef90_G5APL5
UniRef90-F4X375
UniRef90 A0A026WFD1
UniRef90-F7BHN2
UniRef90-E9G9A5
UniRef90 A21465
UniRef90-B7Q9E5
UniRef90_EOVW23
UniRef90-A0A034WNT8
UniRef90 ${ }^{-}$K1QIF2
UniRef90 C3Z5M6
UniRef90_V3ZXU8
UniRef90 T11201
UniRef90 A0A023GK66
UniRef90-T1KSU0
UniRef90-H9GSD5
UniRef90_V8N9W8
UniRef90-F1LBX6
UniRef90-UPI0003593672
UniRef90_K7J198
UniRef90 D3TQ44
UniRef90_A8HG18
UniRef90_J9JW38
UniRef90 A0A044UI58
UniRef90 Q7QAV5
UniRef90-UPIO0035974D6
UniRef90_U5EPG6
UniRef90 H9J9S6
UniRef90-14DNU5
UniRef90-T2MG91
UniRef90_A7SWE5
UniRef90 A8QDU7
UniRef90-E1FKC9
UniRef90-U4TYI3
UniRef90 G5EF26
UniRef90-G0PMT7
UniRef90-U6PWG2
UniRef90_C1C100

KHNHYQKQ ${ }^{\circ}$ WAHEK LRHAESVGDGERVSRSREKHALLE ${ }^{80}$
 KHSHYQKQLQLSDEKLQHAEGLGDRGHVSRSRERHAQLQE KHSHYQKQLELSHEKLRHVERLGDQEHLRRNQEKHAQLEE KHQHYQKQLELSHQKLRHVEGGGDRELLTRSREKYALLEE

 KHNHYQKQLE A HEKLRHAESVGDGERVVRSREKHALLEG KHNHYQKQLEI SHQKLKHVESFGDPEHI SQNKERYALLEE KHSHFREQLQVSHEKLQHAKATHDVDRLGETQRRHNELTD KHKHYQQQLETSHQKLQHVERTGDRGHLLQNKERHALLEE K LR HLQADHVSNSEKY NTKVAGAGEKMN M HEEDQEQ KHQHYQEQLEYSHQKLQHVESLGDKEHDMRHKEKYNNLAE K LRHLQAEAALKEDLHKKKMEMAGGKTNGMQ KM MMED QHVDLRDQAHI AAMKYHADKSVGE KVDPKAHEELKD KLRTLHADH VSNLGKHHSKVAAAGDKM DYFADQQQ KLRHMQVEHALNEAKYNKKQKFS GEKSNGQKMMED KHKHFRDQLKNSAEKLDFHGEGATEERVSR MQKLQG K LR H L H VEGAL DAAQKGQLHDLENSTAEQ KLRHLHTEAALEAAR $\quad$ QGKPYDIENSTMEH KHNHYQKQQEISHKK DKHMEP $\square$ GHQEHVSRNREKYT LLEE K LRHLHAEEALEAAQKKQLDHDLENSTAEQ KLQHLHAEGALEAARKRQPEDSDNS KHRHFREQLKNSAEKLDFHGGESAPDDRVV KHQKLQD
 KLHHFRSELQLKADL KLRHDHAEAEFHLSKSPKVTGEKPAQGLLSTDE D KLRNLHAEHAMQKEKYKNEKQKDKSG RFEDMED KHDHYQDQLRVSEEAVR KNYKDGE KPEKHTQLEQ KHSHYKQALVASQQ QKEDVGKEQFPQEKQARHADLLD KHEY K LDRHVDAAMEEEQRKSKGLDKIDNAELMD KLHHFQTELEQH GADPKAAPDEDHVKTLK KLHFFEEQL NNERLTGKDTVNQPDDVKVS SHIER KHLHFQKQLEDSHQKLKHVEGMGDEEHLSRHQEKHTMLQE KHHHYQKQLEISHQKLKHVEGMGDKEHLGRNKEKYAVLEE K LKYHE EELAAAQQLHK YAKEAVAGKASVISEGLSEFEE KHRYYVNEL A K KYAKEAVEAGEGEESIDEKHE F GTE KLRHLHTEAALEAARQ
KLRHLHAEHALQKEKYKNEKHQDKSQR KHQHYQEQLDLSHQK
K $\square$ RHFNVDLAAGNE HDNDEK KMKYHDEELKITK KEQEKLGKFNVFDEDVSSFEE K LRHMHAEHALS LEKHKHSDAKAD KQKHFADQDALSRQSDEHK RSPDNHKF $\square$ ME K LRHMHSEHALAMEKHKQAEHGDKHDR KMNHFEDQ

EQ
 KHEHYKKQVLESEARLAEGEELSHDHEELKQKEK KMKYHDEELKAEQEKLGKLNVFDED KMKYHDEELEAAKKEQEKLGKF KLRHMQVEHALNEAKYNKKQKFS GEKSNGQKMMED KI EFHKEEVSRLQE DAEERGKDKSQVYENLEL KVEFHKEEV SRDQEDAEDRGKSKAQVYENLELSI KI AFHKKELDARR EERKKQGKMTLDAVEDVELEA KVKHLEEELKLVDERHGGK
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

28

UniRef90_UPI0003C1965C UniRef90-UPI0004446B74 UniRef90-UPI00033180EF UniRef90 UPI00032AED30 UniRef90_UPI00045DAEEC UniRef90-Q01HL6 UniRef90 W5MWD9 UniRef90-A2BGU5 UniRef90_UPIO0029DB042 UniRef90_UPI0003C869C8 UniRef90- S4RDC7
UniRef90_UPI0003292E4E
UniRef90_UPI00034FB092
UniRef90- S4PLC5
UniRef90-W5JZH5
UniRef90-D6W9S8
UniRef90-UPI0003F0D943
UniRef90- G6CY80
UniRef90-N6U1J4
UniRef90-H2ZJC6
UniRef90 E9IWN2
UniRef90-UPI00021A6A13
UniRef90_G5APL5
UniRef90-F4X375
UniRef90 A0A026WFD1
UniRef90_F7BHN2
UniRef90-E9G9A5
UniRef90 A21465
UniRef90-B7Q9E5
UniRef90_EOVW23
UniRef90-A0A034WNT8
UniRef90 ${ }^{-}$K1QIF2
UniRef90-C3Z5M6
UniRef90-V3ZXU8
UniRef90_T1I201
UniRef90-A0A023GK66
UniRef90-T1KSU0
UniRef90-H9GSD5
UniRef90 V8N9W8
UniRef90-F1LBX6
UniRef90-UPI0003593672
UniRef90_K7J198
UniRef90 D3TQ44
UniRef90_A8HG18
UniRef90-J9JW38
UniRef90 A0A044UI58
UniRef90 Q7QAV5
UniRef90_UPI00035974D6
UniRef90 U5EPG6
UniRef90 H9J9S6
UniRef90-I4DNU5
UniRef90_T2MG91
UniRef90-A7SWE5
UniRef90-A8QDU7
UniRef90_E1FKC9
UniRef90_U4TYI3
UniRef90 G5EF26
UniRef90-GOPMT7
UniRef90-U6PWG2
UniRef90_C1C100

RTKELGYTVKKHLQDLSGRISRARH KTKELGYKVKKHMQDLTNRISRG KTRELGYKVKKHLQDLSGRVSRTRH RTKELGYKVKKHFQDLSGRISRG
RTKELGYKVKKHLQDLSSRISRARH KAKELGYKVKKHLQDLAGRVSRSRH K $\square \mathrm{KE} \mathrm{E}$ GYKVKKHLQDLTSRASRG
KTREIGYKMKKHLQDLTSKDTR
KAREMGYKMKKHLQDLTNKLSK
RTKELGYTVR
KTKQLGYKVKKHLQDLSSRVSRARH KTRSLAYKVKKLHQDIS TRLSR KTKELGYKVKKHLQDLSSRISRG TIKKHSRKVEKMHADI ETRI LDER MIKKHSRKVEKMHADIEGRIIMARH KAREMGYKL
T $\square K K H A R K V E K \square H \square D L E T R \square M Q R$ EADNDGYYI KDFVGDMRSRFSSRRH M ITKKHTLKVEKLHQD\ESRワMARH NIKKQARKVDKIHLDI ETKI MQR KVQDLGTKVKKLF GDLK S R L S HIKKHVRTVQKLHTDLESKIMQR


 KVQDLGNKVKKLFGSLKSRLSNG
RI K LLQSRKVEKKLHADLEARITAR LI KKQSRKI EKLH S H L E S KI RVKQYNHKVGKGHGEL EGR LQRR
VKK K Q K K V A K L R L D L E T K I M Q HIKKQTRKVEKIQDTIEKTIFR TVRDYSRKVEKYHNDLKYRI SKA KVKD DGYKVKKHYKDLHYRINK KAKHFKRKVKKDHDDLENRVNK LIKKHTRKVAKIHLDIESRILER RIKQYNHKVNKVHQDLEGRILQR
 KTKELGYKV
KTERMKRKLRKLGNFLETKI
KASVMKKTVGKVHSGLKERVEEA H $\square$ K RHASNVEKLHRDUEAKIMQ

K $\square K K E S R N V Q K \square H K \rrbracket L E D K \prod Q K R R$ E NKRLGRKLRKLENYLETG

K T D S $\square$ N NE $\square$ K K Y H S H $\square \mathrm{K}$ E R $V$ T K A
T I K K HSRKVEKMHAD IETRDLER Q 1 KKHSRKVEKMHDDLHKRISQR KLEEYQRHVKKYHATMVNR』S

 K HEKLNRKVRKLEKYLEEKI KHEKMERKLRKGEKYLDSKI
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



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

