QUERY
UniRef90_UPI00034FDBCE
UniRef90_UPI00026580A3
UniRef90_W8C4P0
UniRef90_D6WQD4
UniRef90_T1K180
UniRef90_B4MRP4
UniRef90_UPI0003DED717
UniRef90_W4YZM9
UniRef90_N1PB35
UniRef90_B7QM69
UniRef90_Q17IK5
UniRef90_UPI000359DD96
UniRef90_A8XGQ3
UniRef90_H2QYY7
 TFTSFQLEELEKAFSRTHYBD




## T

| T |
| :---: |
| A |

$\stackrel{N}{N}$

## 2

## 

A
A
T

T$A$
T
F03440844UniRef90_Q1G692UniRef90_UPIO003440844
UniRef90-Q4PZA3
UniRef90_H2LYM2
UniRef90_G1NU74
UniRef90_B4KNY6
UniRef90_A0A044VIY3
UniRef90_UPI0003889CEA
UniRef90_UPI0003F0BB3F
UniRef90_UPI0004406797
UniRef90_F1PP15
UniRef90-UPIO0032B176C
UniRef90_APIOOM4RB2718
UniRef90_W4XGW5
UniRef90_Q4H341
UniRef90_F4X5K2
UniRef90_B4KCJ0
UniRef90_O75360
UniRef90 ${ }^{\text {I3K2S5 }}$
UniRef90-I3K051
UniRef90_B4NAAO
UniRef90_UPI0003DF6575
UniRef90_T2MDN0
UniRef90_UPI000329A28C
UniRef90-UPI0002659C39
UniRef90_K7FAF1
UniRef90_A8DT14
UniRef90_F7A3E6
UniRef90_UPI0003AF7137
UniRef90_U6NQI6
UniRef90_Q9GT25
UniRef90 F1PAB5
UniRef90_K7IX34
UniRef90_Q9U5K8
UniRef90-W5JMZ5
UniRef90_H2ZC21
UniRef90_UPIO002A4B5BE
UniRef90-B7PYL5
UniRef90_Q17EJ7
UniRef90_W5NWQ9
UniRef90_Q9BMY9
UniRef90_E1GBM4
UniRef90_Q5MNJ2
UniRef90-E3LDN5
UniRef90_Q5C5K0
UniRef90_U6HY15
UniRef90_F6ZS31
UniRef90_UPI0001CE0B8F
UniRef90_EOVI18
UniRef90-UPI0004572A3B
UniRef90-T1K6A5
UniRef90_A8PQ78
UniRef90_E9HE98
UniRef90-F7GUU9
UniRef90_B4JGM5
UniRef90_W8C4P0

UniRef90_D6WQD4
UniRef90-T1K180
UniRef90_B4MRP4
UniRef90_UPI0003DED717
UniRef90_W4YZM9
UniRef90_N1PB35
UniRef90_B7QM65
UniRef90 Q17IK5
UniRef90_UPI000359DD96
UniRef90-A8XGQ3
UniRef90_H2QYY7
UniRef90_J9L3S1
UniRef90_UPI0003DE7C38
UniRef90_UPI0003F0CEAB
UniRef90_Q5EVJ4
UniRef90-F1LA45
UniRef90-K1QCX7
UniRef90- U3I4P6
UniRef90_J9LR75
UniRef90_UPI0003297CC2
UniRef90-L5KWR2
UniRef90-Q16GS7
UniRef90_G4V7Q2
UniRef90_UPI000443A41C
UniRef90_UPI0002C34935
UniRef90- W5KA85
UniRef90_U6HKU6
UniRef90-U4UQH8
UniRef90_W5N9W7
UniRef90_Q1G692
UniRef90_UPI0003440844
UniRef90_G7YJ64
UniRef90_Q4PZA3
UniRef90-H2LYM2
UniRef90_G1NU74
UniRef90-A0A044VIY3
UniRef90_UPI0003889CEA
UniRef90_UPI0003F0BB3F
UniRef90 UPI0004406797
UniRef90-F1PP15
UniRef90_UPI00032B176C UniRef90_UPI00032B2718 UniRef90-A0A044RMS4
UniRef90_W4XGW5
UniRef90_Q4H341
UniRef90_F4X5K2
UniRef90_B4KCJC
UniRef90-I3K2S5
UniRef90_I3K051
UniRef90_B4NAAO
UniRef90_UPI0003DF6575
UniRef90_T2MDN0
UniRef90_UPI000329A28C
UniRef90-UPI0002659C39
UniRef90_UPI00038C59F0
UniRef90_K7FAF1
UniRef90_A8DT14
UniRef90_F7A3E6
UniRef90_UPI0003AF7137
UniRef90_U6NQI6
UniRef90-Q9GT25
UniRef90 K7IX34
UniRef90_Q9U5K8
UniRef90_W5JMZ5
UniRef90-UPI0002A4B5BE
UniRef90-B7PYL5
UniRef90 Q17EJ7
UniRef90_W5NWQ9
UniRef90_Q9BMY9
UniRef90_E1GBM4
UniRef90_Q5MNJ2
UniRef90 E3LDN5
UniRef90_Q5C5K0
UniRef90_A8Q5U1
UniRef90 U6HY15
UniRef90_F6ZS31
UniRef90_UPI0001CE0B8F
UniRef90_E0VI18
UniRef90-UPI0004572A3B
UniRef90_-T1K6A5
UniRef90-A8PQ78
UniRef90_E9HE98
UniRef90_F7GUU9
UniRef90_B4JGM5

VWF QNRRAKWR
WF QNQRAKWR
VWFSNRRAKWR
V WF Q NRRAKWR
V WF Q NRRAKWR
V WF Q NRRAKWR
V WF Q NRRAKFR
V WF Q N R R M K H K
I WF Q NRRMKWK
V WF Q NRRAKWR
V WF S NRRARWR
V WF S NRRAKWR
V WF Q NRRAKWR
V WF K NRRAKAR
V WF Q NRRAKWK
V WF Q NRRAKWR
V WF K NRRAKWR
V WF Q NRRAKER
V WF Q NRRAKWR
V WF Q NRRAKWR
$V$ WF K NRRAKYR
V WF Q NRRAKWR
V WF Q NRRAKFR
V WF Q NRRAKCR
V WF Q NRRAKWR
I WF Q NRRMKHK
V WF QNRRAKWR
VWFQNRRAKWR
V WF Q NRRAKWR
V WF Q NRRAKQR
I WF Q NRRTKWK
I WF QNRRVKCK
I WF Q NRRVK H K
I WF QNRRMKQK $\checkmark W F Q N R R A K$
V WF K N R R A K GR
V WF S NRRAKWR V WF K NRRAK FR
V WF QNRRTKWR
I WF Q NRRTKWK
VWFQNRRAKWR
$V W F Q N R R A K Q R$
V WF Q NRRARLR
V WF Q NRRAKCR
V WF K NRRAKYK
V WF Q NRRAKSR
V WF K NRRAKWR
V WF Q NRRTKWR
I WF Q NRRMK LK
V WF Q NRRTKWR
V WF S NRRARLR
I WF QNRRAKAK
V WF Q NRRAKQR
V WF Q NRRMKEK
I WF QNRRTKWK
WF QNRRMKSK
TWF Q NRRTKWR
VWFSNKRAKLR
WF QNRRAKDK
I WF QNRRTKWK
V WF Q NRRAKWR
V WF Q NRR $\square K W R$ V WF Q NRRMRWK
TWFQNRRMKHK
VWFKNRRAKCR
WF K NRRAKDR
IWF QNRRDK WK
TWF Q NRRMKHK
VWF Q N
WF QNRR
WF QNKRAK $\square K$
WF QNRRMKWK
V WF Q NRRAR
V WF KNRRAK WR
I WF QNHRYKCK
V WF K NRRAK
V WF Q N R R M K D K
TWFQNRRMKHK
VWF QNRRAKWR
I WF QNRRAKFR
V WF S NRRAKWR
V WF S NRRARCR
I WF Q NRRMKTK
V WF K NRRAKWR
WF Q NRR
I WF Q NRRMKNK
V WF Q NRRTKQK
WF QNRRMKWR
WF QNRRNKWK
WF Q NKRAK $\quad$ K
WF Q NRRAKWR
WF QNRRMKFK

UniRef90_UP100046B4D43 UniRef90-UPIO003EABFOF UniRef90-G1NA20 UniRef90-F6SAH
UniRef90-H2T507 UniRef90-I3IWB8 UniRef90-W2SHF8 UniRef90- G4VE66 UniRef90-E3LYD3 UniRef9--9L2C3 UniRef90-F1LF79 UniRef90-- 28174 UniRef90-Q9HB31 UniRef90-Q75UQ9 UniRef90-C9EET9
UniRef90
Q293K UniRef90-UPI000273C22E UniRef90-UPIOOO3DF4E29 UniRef90_UP100038338BB UniRef90-C7E1×9 UniRef90-M7ZDQ6 UniRef90 T119K3 UniRef90-B6ZCE2 UniRef90-D9IDZ1 UniRef90_UPI0003DODD22 UniRef90-GOSYW9 UniRef90 W5LR82 UniRef90-D3VZV7 UniRe990-T1JR94 UniRef90-W5L560 UniRef90_111717 UniRef90_L8ISB3 UniRef90-W5UCZ4 UniRef90-HoV044 UniRef90-D21592 UniRef90_Q25097 UniRef90-Q5KAWO UniRef90_GoNPY5 UniRef90-A8XRG1 UniRef90_B4JNI
UniRef90_H3FCR2 UniRet90-T1GJB9 UniRef90-K7LDX2 UniRef90-K1R041
UniRef90 ${ }^{-}$B3MMQ8 UniRef90- M2R304 UniRee90-UPI00035013AA UniRef90-K7J7G9 UniRef90-UPIO003AEBFA7 UniRef90-E7DX27 UniRef90-R7S3J3 UniRef90-B2ZF19 UniRef90-A0A016U2A9 UniRef90 UPIO000E47FE3 UniRef90-U6FRJ4 UniRef90-C3U562 UniRe990_U6ILK6 UniRef90_G3PBF9 UniRef90-H9H114 UniRef90-UPI000441B76D UniRef90_B3MK24 UniRef90-R7TT53 UniRef90-UPIO003501E09 UniRef90-L5M7R8 UniRef90_G3TTP0 UniRef90-Q9FX31 UniRef90_V4BFC9 UniRef90 M3ZSR4 UniRef90-13JFZ4 UniRef90-B8A4X8 UniRef90_Q18273 UniRef90_F7G0L7 UniRef90-UPIOOO38EC088 UniRet90-W3X0K2 UniRef90-Q9DG33 UniRef90_UPIOOO35972EC UniRef90-Q5EVE9 UniRef90-UPIO0021A7B68 UniRef90-T1JWN2 UniRef90-W9YP56 UniRef90-Q9N4L2
UniRef90-UPIOOO388C505 UniRef90_UPI000386F97C
 TQEQSVALEQEFIKTQYPDITFTREKLAAEI NLPEGTIR

T FFTSQQTKNLEGRFASSKYLSPEERRHLALQLKLTDRQVKFSPGAAALEKEFQRVQYPDPATRGKLAAATSLPEATVK
STTQLELERE
$T$
TPEQLKVLEFWYDUNPKPDNQLREQLAAQLGMTKRNVQ
AFSSEQLVQLEKQFSDNRYSRPRRYQLAQQLSSETQK
AYSARQLDRLESEFQNDKYLSVNKRDQLSQRLNLTETQUK
AFTHAQLAYLERKFKCQKYLSVADRSDVAETLNLSETGVK
SFTNEQI DNLEKEFERTHYPDVFARERLAEKIGLPRHVFR

AFSHAQVFELERRFRHQRYGSGPERADLANALKLTETQIK
FTNLQRKGLEDQFQQQKYGTKPDRRKLAARLNLDAQV
$\stackrel{\mathrm{F}}{\mathrm{F}} \stackrel{-}{\mathrm{F}}$

$T$
$S$
N
N
N
N
N
S
F S
AQQLEEERRF
FSRAQVEELEKRFQMQKYLTAPEREHLATVTRLTPNQVK

AFSDHQLNQLERSFERQKYLSVQDRMDLAASLNLTDTQVK
AFTQNQI EVLENVFRVNCYPGUDDREDLARKLSLEEDRI Q
TFSAQQLQRLESSFKECPHPDEKQRNQLSRELGGLAPRQUK
AFTAEQLQRLKTEFQVSRYTTEQRRLSLARELNINESQIK
YTKVQLKELEKEYAANKFVTKDKRRKVAAVTNLSERQUT
YNSSQLQMLQKKFQKTQYLALPDRAALAHELGLSQTQVK
YTKQQI AELENEFLLNEFINRQKRKELSNRLNLSDQQVK
AFTAQQVLELERRFVFQKYLAPSERDGLAARLGLANAQVV
FTPEQTRFLMSEFAKQPHPDAAHRERSREDPGLSPRQVQ
T TTAKQLEALKRAYNESNKPARHVREQLSAETGLDMRVVQ
YSDTQRLELEKEFAFNKYTDQRKGELSQQLLNTERQVK
AFTKHQIRHLEYEFAHSNYLTRLRRYEIAVALDLTERQVK
AFTREQLAQLEKEFTAEQYVSRPRRCELASSLNLPESTIK
TQDQLVTLELEEFANPTPTAATRERGAQEDNMTERSVQ
AYEEOLNHLETTSTTHYPDATTREEANOCSLKEERVE

UniRef90_UPI00046B4D43
UniRef90_UPI0003EABF0F
UniRef90_G1NA20

V WF K N K R A K CR VWFSNRRAKWR TWFQNRRAKWR VWFKNRRAKYR 1 WFQNRRAKER TWYQNRRTKWK 1 WWFQNRRMKHK VWFSNRRARWR VWF QNRRAKFR VWFQNRRMKKK VWFKNRRAKHR TWF QNRRAKWR ITWFQNRRMKYK VWFQKRWAK I WF QNRRAK LK IWFQNRRMKNK TWFQNRRAKWR VWFSNRRAKWR VWFQNRRDKWR TWFQNRRMK LK ITWF QNRRMKWK VWF QNRRCREK I WF QNRRMKWK VWF QNRRMKWK I WFQNRRDKWK VWF QNRRARQ VWF QNRRAKVK I WFQNRRMKEK V WFKN
VWF QNRRTKAK I WFQNRRMKWR VWFQNRRARWK I WF QNRRAKAK VWFQNRRTKHK VWFNNRRAKYR TWYQNRRMKWK 17WFQNRRMKWK VWFQNRRAKMK IWFQNRRMKNK
TWFQNRRTKWK TWYQNRRTKWK 1 WF QNRRMKEK VWFSNRRAKWR FWF QNRRTQMK 1 TWFQNRRYKTK VWFQNRRMKWR VWFQNRRTKEK WF SNRRAKWR TWFQNRRAKLK VWFQNRRAKFR I WF QNRRAKAK 1
1
WF Q QNR
WF
TWF S NRRARCR 1 WF Q N
VWFQNRRAKWR VWFKNRRAKER
VWF QNRRTKER WF QNHRYKMK WF QNRRMKWK WF QNHRYK LIK WF QNRRAKER WF QNRRYKMK WF QNRRSKFK TWYQNRRQ
$\square$ WF QNRRAKLK FWFQNRRTQLK VWF QNRRAKWR I WFQNKRAK $\square \mathrm{K}$ I WFQNRRVKEK VWFQNRRAKFR
I WF QNRRSKQK I WF QNRRMKKK TWFQNRRAKFK VWFQNRRAKIK TWFQNRRMKLK VWFQNRRAKEK I WFQNRRAKER VWF QNRRMKWK VWF QNRRMKNK I WF QNRRAK $\square K$ VWFKNRRAKER TWF QNRRTKWK VWF SNRRAKWR TWFQNRRMK $\square K$
lupas_14
lupas_28
jnet

```
jpsstin
```

|  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| conf | 4 | 3 | 1 | 4 | 6 | 4 | 4 | 6 | 6 | 8 | 9 |
| sol25 | B | B | B |  | B |  |  |  |  |  |  |
| sol5 | B | B |  |  |  |  |  |  |  |  |  |
| sol0 |  |  |  |  |  |  |  |  |  |  |  |
| jhmm |  |  |  |  |  |  |  |  |  |  |  |

