

QUERY
UniRef90_UPI000237D16D
UniRefon_G4D2T0
UniRef90_U7UMH4
UniRef90_G2TI88 UniRef90_UPI0003B7A716
UniRef90_UPI00036EF319 UniRef90-UPI00036EF3 UniRef90_UPI0004787705 UniRef90-F5L9L3 UniRef90-F3ZQ05 UniRef90-W2C442 UniRef90_R5AS02 UniRef90-R5FJU9 UniRef90_D7N714 UniRef90-UPI00036E5F9F UniRef90-C0E8M8 UniRef90_UPI0003757C6F UniRef90 D1BP48 UniRef90-U3GW39 UniRef90_UPI00041F18D7 UniRef90_UPI0003B7090F UniRef90_W7Y3N0 UniRef90-E6TT87
UniRef90 G1WJC1 UniRef90-EONJ22 UniRef90-H1YF95 UniRef90_C9LTE4
UniRef90 NOAP76 UniRef90_UPI00046FEFE1 UniRef90_UPI000467F839 UniRef90-E6MHL1 UniRef90-S6CFC7 UniRef90-R7FPP8 UniRef90-R9GNV7 UniRef90_R7DGV4 UniRef90_UPIO004011BA9 UniRef90_V6J1F7 UniRef90-H6NOZ5 UniRef90_UPI000382BE4F UniRef90_C5CC48 UniRef90-I4ALV2 UniRef90_UPI000374F466 UniRef90_A0A024Q466 UniRef90-R1IJQ0 UniRef90_C2GGL7 UniRef90_M3ID72 UniRef90_18SG13 UniRef90-C7MP36 UniRef90-AOYGM4 UniRef90_D1C2M0 UniRef90_G8PE38 UniRef90_C3PL24
UniRef90 W1TX98 UniRef90-F6B5Q8 UniRef90-Q2RFR2 UniRef90-R7D722
UniRef90-L1PI18 UniRef90-I3YWM8 UniRef90-K9XD34 UniRef90-UPI000478F118 UniRef90_UPIO0036795C1 UniRef90_L7TXH1 UniRef90_K8E7F3 UniRef90-UPI0002F61801 UniRef90-UPI0003615014 UniRef90-E3J399 UniRef90-DOWIZ4 UniRef90_UPIO003721BF5 UniRef90_K1EON5 UniRef90-A3DJI7 UniRef90_H8Z335 UniRef90-EODCL5 UniRef90_UPI0004785B21 UniRef90_UPI00039AFDE4 UniRef90_W9GCV0 UniRef90-R7K9D3 UniRef90-UPIO0037862FF UniRef90_A0A033UY75 UniRef90-A2U3B2 UniRef90_Q4JT84 4 UniRef90-B0TC71 UniRef90_UPIO00361199F UniRef90_UPI00036B9017 UniRef90_R6WVV4 UniRef90_UPIO0036A6D4C UniRef90_G9RPM9 UniRef90-R6NKG0 UniRef90_UPIO004284E11 UniRef90_UPIO0037840C5
UniRef90_D4L6B2

50
60
NVITVTRPSDEKHHRALDGTTRSLLANMVEGVSKG GKIEVKRPSDEKKHKAMHGLYRSLINNMVIGVSEG
 NVITI ERPSEDKEHRALHGLLTRALVANMVTGVTEG NI I HVTRPSDSKNHRALHGTTRALLANMVEGVSKG GVLTVTRPDDERESRSLHGLSRSLI NNMI DGVTEG GQVIVERPNDHRQFRALHGLYRSLI ANMVEGVVKG KELTVERPSDQKEHRALHGTTRSII SNMVEGVTKG

 GHLTVSRPSDDREHRAQHGLERALLHNMVVGVSTG GNVIVERPDDSREAKSGHGLTRTLI HNMIVGVSEG N $\operatorname{EVVVVSRPSDSKLHRTLHGTTRA} 1$
 SEIVVSRQSDERADRSLHGLYRSLI NNMVKGVSEG NTITVTRPSDDKNHRSLHGLTRALVANMVTGVSEG NEIVVTRPDDNRKNRALHGLSRSLI NNMVVGVTEG GEVVFERHAESKDARALHGLYRS LVARNMVVGVTE G GQVEVKRPSESKSHRSQHGLYRSLINNMVEGVSKG NQVIVERPSDHKSHRSLHGTTRSVI NNMVEGVTKG
 GHL TVQRPSEQKRHKALHGLYRALI NNMVI GVTEG
 G EI I H V T R Q Q E T R E E R A L L NT LVERPSDNKLHRSLHGTTRSVVANMVEGVTNGO



 A T V V V T R P N D E R R N R A L H G L N R S L V A N L V E G V T K G GEVVHVT RAT DNLE E RAQHGLVRSLI HNMVVGVSEG $G Q V T V A R P D D E R E S R S L H G L T R T L I S N M V E G V T N G$ GK L I F E R R T N E E K K T T R A M H G L


 N TLLVV K R P S D D E K E H R S L H G L T R T L L S N M V I G V T
 NELVVSGRNNDKEAWALAGTTRALVNNMVVGVSTGG GTLLVRRPSDERQFRALHGLTRTLVANMVHGVTEG


 D T L HVVSRPD DERET RAMHGGLTRALI HNMVVGVSEG $G K V V V T R P S D D R V A R S L H G L T R T L I A N M I E G V T K G$ GQVLVERPSDSKDHTAKHGLYRSLINNMIEGVSNG
 $N V I K V T \square A S D N K Q A W A Q A G T S R A L I N N M V E G V S K G$ $G V L T V N R P S E S K Q H K A L H G L Y R A L I N N M V V G T S E G$ NEITTFTRPNDDKENRALHGTMRANLNNMVIGVTEG NELTVARPSESKKHKALHGTTRSLIANMVEGVHKG A HV IV E R P SEDKA HKAMHGGYRALI HNMVVGVSE G
 SELVVVTRVNDEREAKALHGLSRTLVANMIVGVTEG







 N S L EVVVRPSDSKEHKTIHGTTTRALI ANMI E GVVSKG
 E ELVVVSRPDDHRKNRSLHGLSRSLVMNMIEGVTKG $N T V Q V T R P S D D K F H R S L H G L S R T L V A N M V D G V S V G$

 $D Q L T F E P K G G S K S A W A M A G T T R A A L I D N M V V G V T B C G$
 NVI NVTRRPNDDKVNRSLHGLTRTLIANMVAGVHE GTVVVSRPDDERLSRSLHGLSRTLINNMIDGVTEG


## UniRef90 G8X6G3 UniRef90-CON8X8 UniRef90-DOWPB

 UniRef90-UPIO003B7068A UniRet90-G2DCPO UniRef90-R7PQB2UniRef90_UPIOOO3820F29 UniRef90-K4LXN7 UniRef90-A1S233 UniRef90-R7CPV8 UniRef90 ${ }^{-}$W10666
UniRet90 ${ }^{-1451 J 9}$ UniRef90-R6TBM4 UniRef90-R6N693 UniRef90-R6A617 UniRef90-A6W377
UniRef90 $\mathrm{TOK229}$ UniRef90-H3SEN5 UniRef90-Q2BGA2 UniRef90-UPIO00371A5D4 UniRef90-UPIO0016B2487 UniRef90-M5J557 UniRef90-UPIO0036FCA86 UniRef90-A3TH34 UniRef90-F5WTY0 UniRef90-A1TYL2 UniRef90_UPIooo29B23CF UniRef90-C0ZIIJ UniRef90-UPI00047DB2D1 UniRef90- ${ }^{-}$OZ7l1
UniRef90_UPIO0036C32DA UniRef90_UPIO0039AFBE3 UniRef90-UPIOO041233B8 UniRef90-X2GUD4
UniRef90-UPI0002DA802E UniRef90-KgYGR1 UniRef90- Bот2D7 UniRef90-UPIO0041EDAA1 UniRef90-R5Z131 UniRef90-UPIo00378CE6C UniRef90-S2WEB6
UniRef90-UPIOOO3781BE3 UniRef90-R5LFY7 UniRef90_OOVSI8 UniRef90-C8XC10 UniRef90-UP1000255A140 UniRef90-B1YGW5 Uniref90_D9RZM
UniRef9O_N2AWC3 UniRef90-R5AAX0 UniRef90-M4ZYOO UniRef90-H1CBH8 UniRef90-UPIO003F7CB19 UniRef90-R6YU62 UniRef90-C7M4S55 UniRef90-XoWS25 UniRef90-R5ZX15 UniRef90-U4TIB4 UniRef90-UPI00036052C2 UniRef90-UPIO0030A2788 UniRef90 K7SMC2
UniRef90-UPI0004757A5C
UniRef90_DZZ1U3 UniRef90_WOA5H0 UniRef90-R9M642 UniRef90 - L10RF2 UniRef90-I4D197
UniRef9O A4BK UniRef90-R8ASZ9 UniRef90-UPIOOO37E685B UniRef90-R4Z5V7 UniRef90_UPI00040322ED UniRef90-A0A023BRR2
UniRef90-A0LIK5
UniRef90-C5JBA3 UniRef90-B2V7J8 UniRef90_R6XI87
UniRef90_R7UE95 UniRef90-D4KEC7 UniRef90-R6TZQ9 UniRef90-UPIOO0422835F UniRef90-C6WM12 UniRef90-B1CA30 UniRef90-H0DFG9
UniRef9O-FOSY23 UniRef90_UPI000477A50F UniRef90-C4KZN1 UniRef90-B8HMR8

1 20 30
PIAIIPAGITVELKDSIVITVIKGKLGQLISQEITDNVTVTVEE PVEIPAGVEISLNDSEVTVKGSKGTLTRAIHPDVNVAQED PVGVPSGVEVTVDGRHVTVKGPKGTLEHTVAEPVAVSFDD Pi AI PSGVELKVADQVVSVKGAKGALELVTVHEVADSQED PI A VPA GVVEVKI DGHLLVTVKGPKGTLTREFHKDINIIAMEN
 PVSIPAGVEVTLNGQEITVKGGKGTLTRVINSAVAVTVED PVAIIPAGVEVTVEGNVVTVKGPKGTLERALPTEMEIKVED PVVIPAGVTVEVKGHTVTVKGPKGTLTREFHPNDALEVQE PVVIPAGVEVKLNGQVITIKGKNGELTRTDHNAVEI QHAD PI SVPAGVEVTVDGNVVTVKGPKGSLTKEFHKDMIIKCAD P NIPAGVDVKVSDGVVTVKGPKATLTQKVHPNMTVKVEG PVTHPAGVTVTLKDNVVSVKGPKGELSQAVDPSVIVTVEN PITVAAGVTVTIDDNVVTVKGPKGELTRQLHKDMIIEMEG PITVPGGVTVTLDNSVITIKGPKGSLSREIHKDMKVSVEE PVIVPAGVEIKI DGQSVNVKGKNGQLSDEVHPSVEVSQEE PISII PENVEVKVEDSKVTVKGPKGELSREIRPEIVVETKD $P V V I P A G V T I T V D S G N V V V K G P K G E L T Q F I T P A V D V K V E D$ VELPEGVEVKQDGNVVTVKGPLGELTREFSDQITMKIEG
 ITIPAGVEVELKGNEVTVKGPKGTLTRQFSELYEIEDNG PVVLPSGVEVKLNGQEINVKGSKGALQFTTHQAVEVKQEE PITIPEGVTVSLKDKVVTVKGKLGELTQEDKDIDVKTED
 PI TIPKGVKVELNNNNIKISGERGTLERSFHPDMQVKIVE PIEPAGVEVNLNGADVTVKGPKGELSDTVASPMEVKVE PVPVPAGVDITVSGALVTVKGPKGSLEHTVPAPINVAQED PINIPGGVTVDVSAHTVTVKGPKGTLTQDVNPDI QVKVEG PVVVPAGVEVKLNGQVITIKGKNGELSRTINDAVVINQEE PI SVPPGVEVKIDGQTVNVKGPKGELSHTVAEPITVADED PIPIPQKVEITVDGKQVKVKGPKGELEQTMPDFVTIEQED VAIPSGVNITLDGQTVTVKGPKGQLSWTПAEEITISQEG PVVVPAGVTITVDENVLTVKGPKGQLSQAIDRDITVNDNE PITVPEGVEVKLDGQHITVKGPKGTLERDI HKNMTVTMDG PVEI PSGVTITVENNTVSVKGPKGELTQRISPFTSVNTED
 PIAIPAGVTVTIENNKVTVKGPKGTLERVLPEGIEIKVDG PVNLPKGVEVKIDGQKVAVKGGKGSLEHEVHELVAVSLED PIPVPAGVDVKIDGSSVTVKGPKGSLTHAVVE PI AVAQEG PVAVPAGVELKLAGQLTVKGKQGELSLDLHPVVTAEQSE PVVIPAGVTVTVE PI EIIPKGVEVK PIAVPAGVTVE EGNDVTIKGPKGSITKEFHKDMQILQED $P V V V P A G V E V K I E G N L L T V K G P K G T L E R K L S A D M N I K M E D$ PITVPAGVDVNI ANGRVSVKGPKGTLERVIPGNISISQEG PI QIPSGVDVTVQDGEVIVKGPKGELRQKIVGEIEVIRED
P
P P PLPPNVEVEQK PVRIPAGVEVTVKDQQVSVKGPKGALARELNHLVADAHED IPIPAGVVTHGTRVHVKGPKGELBRTHREVTVTMEN PVTVPSGVEVKLDGQDVEVKGPKGTLSMSVAEPVSVSRND PVEIPAGVEVNINGQDVSVKGPKGTLALLSVANPI SVVVDG PVPVPAGVTATIDQGKLSVKGPKGTLSMPLADDVSYEVQD
 I AVPKGVTVTLNGQDITVKGPKGERSWTVAEEIEVKQEG PI GI P SGVDFKIEDNFVTVKGPKGTLSRQIHSLMTVTVEN

  | Pa |
| :--- | :--- | :--- | :--- | PVT PGVSVTVDANTVTVKG PIT SGVTVEVTGNVVTVKGKLGELSQEIDDSVDVKVEE PIPKGVDVSLDEPLLTLKGPKGTLARRMPGDVEVHLEQ

 PITVPENVEVKIDGHHIEVKGPKGTLSRDTHKNINIVQDG PVAIPAGVEVKHNGQDLVIKGSKGQLEDSVHANVEVAQEE PIAIPAGVTVTVDGNLVAVKGPKGTLSYPIHHLITVRVDG PI SVPAGVTLTLKDNVVTVKGPKGELSQYVHPSI RTIIAG
 I EIPNDVTVSIDNNTVTVKGPKGELSKTLSERMTYKQED P A A PNSVEVTVDGNNVTVKGPKGTLSRELRAEVTVTVEN PVDLPAGVTVTVGGNVVSVKGPGGQLSQKVDSDITVTVEGO


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| :---: | :---: | :---: |
| nRef90－C0N |  |  |
| UniRef90－D0 | GLISVTRPDDERKSRSL | G |
| UniRef90－UPI0003B7068A | GQIEVKRPDDQKKTRALHGL | v |
| UniRef90－G2DCP0 | SELRVSPKVEDKDSWAMAGT | ALLNMVVGVSQG |
| UniR | NELVITRPNDSNTRALHGL | ALLNNMVVGVHTG |
| UniRef90－UP10003820F29 | NEIVVSR |  |
| UniRef90－K4L | DKLFVKRP |  |
| UniRef90－R7CPV8 | GHVVVSRPNDLKKMKSLHGL | G |
| UniRef90－W1 10666 |  |  |
| UniRef90－B4F1J9 | NQLTFAPRDGYADAWAQAG |  |
| R6TBM4 |  |  |
|  |  |  |
| UniRef90 R6A617 | N | G |
| UniRet90－A6W377 | NV | $\checkmark N N M V V G V S Q G$ |
| UniRef90－TOK229 | NVINVKRPTDNKEHRSL | VNMVTGVTQG |
| UniRef90－H3SEN5 | NVIHVERPSDNKLHRSL | G |
| UniRef90－Q2BGA2 | GSVKFAAREASKLSRSLS | VNNMVVGVSEG |
|  |  |  |
| UniRef90－UPIO | GQVTVHPKDESKTARAQ |  |
| UniRef90－M5J5 | NEVTFERSSEDNKVKAL | G |
| UniRet90－UPIO0036FO |  | G |
| UniRef90－A3T |  |  |
|  |  |  |
| UniRef90＿A1TYL2 |  |  |
| UniRef90＿UP1000 |  |  |
| Uni | NEVIVERPSDNKLHRSLHGTTRA | ALVSNMVTGVSEG |
|  | FVSRPSENKFH | ， |
| UniRef90 UPIO | GQVLVTRPDDERESRALHGL | NNI鸟VTTG |
| UniRet90－UPIO0039 | AQLVVSRPDDERNSRALHGL | ANMITGVTEG |
|  | S | Nmv |
|  |  |  |
| UniRef90 UPIOC | $\mathrm{G}$ |  |
|  |  | 相 |
|  |  | － |
| UniRef90－R5Z131 | GNVKVTRPNDEAENRSLH | SNMVEGVIEG |
| UniRef90－UPI000378CE6C | K\ISVSQLESTRDAKA | A N M |
|  | NTVLVTRPNDERESRSLHGLTR | $\checkmark$ ANMIEGVTNG |
|  |  |  |
| UniRef90－R5LF |  |  |
| UniRer90－COVSI8 |  |  |
|  |  |  |
| UniRet90＿UP1000255 |  | G |
| UniRef90＿D9RZM7 | GKITVKRPSDDKNHKAL |  |
|  | VTR |  |
| UniRef90－R5A | GQ VVTRPSDLKKRALHGL | NMIVGVTEG |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | NTIKVTRPNNEALINRSLHGLTR |  |
|  | G |  |
|  | G ${ }^{\text {a }}$ |  |
|  |  |  |
|  |  |  |
| UniRef90 UPIO00360： | S | VNNMVTGVSAG |
| UniRef90－UP100030A2788 | NELRVLPVDDSPVARAWG |  |
|  |  |  |
| UniRef90＿UPI0004757A5C | GAVVVTRPNDERRNRAL | $V Q N I V T G V H E G$ |
|  |  | A NMVEGVTKG |
|  | AVQPANETKRARAFWGM | N M DGV EG |
|  | SNSVSTMDESKKSRSLYGL |  |
| UniRef90 R91 | T THTVERPSEDKLIMRSLHG | LNNMVVGVTDG |
|  | SEITVTRADDEPLSRSLHG |  |
| UniRef90－A4B | G | ALVNNMVVGVTDG |
| UniRef90＿R8 |  |  |
| UniRef90 UPI00037E685B | NQVTVNR | MI QGVTEG |
|  |  |  |
| UniRet90＿UPI00040322ED |  |  |
|  | GQVVLERPSEAKDHKAKHGL |  |
| UniRef90－A0LII | A | LVNNVHGVSEG |
| C5JB | APRSRAKESAALWG | L NNM K G V Sk |
| UniRet90－B2VJ88 |  |  |
| UniRet90－R6x187 |  |  |
| $\begin{aligned} & \text { UniRef90_R7UE95 } \\ & \text { UniRef90 } \end{aligned}$ | NVVTFAPRDGAKHSRALA |  |
| UniRef90＇R6TZO9 | A OVHVERSSEEKL | VHNMVVGVTEG |
|  |  |  |
| UniRef90－C61 | GTLEVKRPNDERRSRSLHGL | G |
| UniRef90＿B1CA30 | NVLEVKRPNDDKKYRSLHGL | VIGVTDG |
| H0DFG9 |  |  |
|  |  |  |
| P11000477 | NQLTVTRPTDQPRHRSMHGL |  |
|  | NELTVVRPDESKESRTDHGT | 兂 |
|  |  |  |
|  |  |  |

## UniRef90_U2LXM2 UniRef90_ALVFCC0 UniRef90-TORKY8 UniRef90_UPI00035DB457 UniRef90-R7GSM4

 UniRef90_UPI0003B354B8 UniRef90-A9DIS4 UniRef90-R5STD5 UniRef90-I2EPQ1 UniRef90 A6W5V3 UniRef90-D3NS55UniRef90 Q1NPL3 UniRef90_D1PNI6 UniRef90-E1VY50 UniRef90_UPIO00428D93E UniRef90-V714E7 UniRef90_UPI0003C7F9DD UniRef90-EOE5C1 UniRef90-R5HQZ9 UniRef90-10HZJ7 UniRef90_UPIO0029B0871 UniRef90-H1Q4C5 UniRef90-F9MT61 UniRef90-QOTMR1
UniRef90-M2XF44 UniRef90_M2XF44
UniRef90_A6LPS6 UniRef90-W4L230 UniRef90_UPI0003B5682F UniRef90-E6W725 UniRef90-UPIO0037D1A2E UniRef90_B1MW00
UniRef90-Q7NEG7 UniRef90-Q7NEG7
UniRef90-E4QWW0 UniRef90_UPIO0036472FA UniRef90_C0GG99 UniRef90-E6VT86 UniRef90 F3LCD8 UniRef90-E1QKR7
UniRef90_W7ZSV1 UniRef90_UPI0003F6F3CA UniRef90-Q3MFA7 UniRef90-U2VJ93 UniRef90-W6TIZ7 UniRef90_UPIO003494C67 UniRef90_A1WVA7
UniRef90-C7R0V9
UniRef90_C7ROV9
UniRef90_B8ISA0
UniRef90-UPIO0029A36CB
UniRef90-F4KWV8
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UniRef90-C7R890
UniRef90-10GKG5
UniRef90-R6D765
UniRef90_W3RH08
UniRef90_UPI000287BAC1
UniRef90_UPIO00381C82B
UniRef90-C7XVS7
UniRef90-R5R1H4
UniRef90-COZW41
UniRef90-K8ZN82
UniRef90-UPIO00474A23B
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UniRef90-W3AGF4
UniRef9O-K2Q0R2
UniRef90-Q6Q8X3
UniRef90-R5GX37
UniRef90_R5GX37
UniRef90_Q8DML8
UniRef90-H1ZB51
UniRef90-Q0K634
UniRef90_UPI00042472B6
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UniRef90_V4JSK9
UniRef90_K6WVG9
UniRef90_V8BMV5
UniRef90-E3HZT9
UniRef90-R7IS98
UniRef90-UPIO00348A6F1
UniRef90-UPIO0042233EF
UniRef90_UPIO0036D6A11
UniRet90 E1QX40
UniRef90-G9ZCR4
UniRef90 UPI0003
 PVEI P S GVTASUSGQTVEVKGPKGTRSFTATDDVTIMI ED

 PI SVVPAVVDVKCENNFVTVKGPKGEASRQFHTDLGIIEVAD
 $P$ V S 1 P A GVVTVADK $P \vee A L P S G V V K$ E GNVITAKGPKGTES P I
 PI EVVPS GVKVDI K G S DVSVS GPKGSLERRIRPEIALEQAD PIVVIPAGVEVKVDEHAITVKGPKGTLHSKYHPLMNVNVEG
 $P V K L P A G V T V T V S D N V V T V K G P K G E L K E A I D R D I T V S V A D$
 PVAAVPS GVEVSVDGQDVRVKGPKGELSHTVAEPDTISKDD PI MI P A GVVEVTLEDNTVTVKGPKGTLTNKFNNEMIIKKED





 PI EVPANVTLTI EESVVKAKGPQGELTCKVHPNMKLEMEG PI SI PA GVECKLEGVLLTVKGPKGQLHRDLHPNMQVADES


 PVEI PAGVEVKLEGQDISVKGSKGSMALAIHHNVEVKQEE

 4 P K I A D S V K V D I K PI P V P N K V TVVTI A G Q H V T V K G P K G E L Q R T L P N Q V PVVEVPS GVEVTLQGNDI QVKGPKGQMA WSCHRQVSLNQEE
 $V V L P A G V E V K K D G D K I T V K G P K G E L T R E F S D K I V S E D K D$
 P I


## PI ALKD GVETNDNGQTVEVK GPKGTMTDVIPEPDTASVED




P


 $P \vee A V P S G V T A N D D G Q T V K V K G A K G E L S F V V P D D V A V V L E D$



 $P$ I TIP A GVTV DVVEGVIVVKGKLGELTQKF DTVSVVVE P I A L P
 $P$ V A I P
 $P$ P
 $P$ I RLLPS GVVDVK N G Q DVIVVK GPKGELVFVVNDLVVVVMTD $P \vee T V P S G V D V T I N G A D V T V K G P K G S L S H M L I P S V L L B A E E$ P I S I P A GVV TIE QK D GVVVSVK GPK GEL S QKV DA S I K V N I A D
 PI PI P D KV TVVKI E G Q DV AVVK GP K G E L Q R TI PAKV TVV L D G
 I T L P P A G V $P \vee Q V P A G V T V A D D G A N V K V K G S K G E L E R T F S E D V T I M E E G$ UniRef90_UPI0003B5AD3F

SEVV|C|V|SRNDDSKNARAAHG|L|YRS|LI|RNM|VIG|V|TDG
 E ELLTLVPRNESTRAKSMWGLSRTLVANMVVGVTTG GVI NVTRPNDDKEYRSLHGLTRSLI ANMVEGVTNG




 $G K V V V K P A N D S K R A R V M W A T S R T L I N N M V T G V S Q G$ GRIITVKARDNS QRTRAFTGLTRSLINNMVIGVEKG NEILVVTRPNDEKEARSLHGLTRTII HNMVVGVTEG
 $G Q V T F T R P T D D \square R H R A M H G L Y R A L I$ A $N L V K G V T E G$ $G N V L V T R P N D D K Q N R A L H G L V R A L V N N M V V G V S T G$ GTLLSI E R P D D E R R S K A L H G L S R T L STIVVVERPTENKKHKSLHGGLTRTLINNMVVGVSEGO NVI HVTRPNDEKENRALHGLTRTLLNNMVVGVTEG $G H V R I S R P S D Q R R H R A Q H G L T R A L L A N M V Q G V T V G$ GKVVVYKE FPRKK DVAMARTFRAMIANMIKGVTEG TQI RFE $\square$ DENNKEKQAFHGLYRSLI NNMIDGVSEG NQI I I QRSDDKKNTRASHGLSRSLVANMVEGVANG

 NEVIV TRHSEQKDHRALHGLTRALI NNMVI GVK Q G D T I HVK R Q S E A K M D K S L H GL S R T L L N N MVVGVVT D G TEVVVTTTKNGAKQTNAYHGLYRSLINNMVKGVTEG $N V V R V V R P D D S K E N R S L H G L T R T L V N N M V V G V G T G$ DLI SVVTR T DGRVDRSLHGLTRTLI NNMVIGVSEG
 GQFTFTPREGFVEANAQSGTARALVNAMVIGVTEG
 $G K V V V N R V D D S R E A R A Q H G L L R S L L A N C V E G V S K G$ NVLNFAARNKAKSSVALAGTTRALVNNMVFGVSTG



 S V L QV $V$ N R R D D S R P A R R Q M H G
 $G A B V Q P R S Q T K E A R A L W G L L S R A Q V A N L V E G V T K G$
 Q T L
 A T V T V E R P T D Q K R H K S M M G L Y R A L I A N M V E G V NELRVARPSDHRKHRALHGLSRSLLNNAVVGVTEG GEIS F TPSAGVESWAMAGTYRALVNNMITGVTDG
 GKLLTFAARDGSKQS $\quad$ AALS GTTRRALVNNMVVGVNE G GSI TVGPRFETKRARALYGTSRARIANLVEGVTKG S NVLVTTRPS DDKN HR A L H G L T R A L V H N M V V G V T E G $N T$ I E F T R D S E QK E VR S L H GTTTRSLVVNMID GVTE G $N V V K F D R S S D D N R N R S L H G T T R A N V N N M V E G V V N G$
 NEVTLTRPDDTKESKTMHGTMRANLNNMVIGVSEG GAI KVVDRDETKRARALWGMSRSQVSNDVEGVSKG
 GTVVLERPTEDKKDKSKHGLYRSLINNMVI GVSEG K VI TI K Y D E E N Q Q S VA LAA GTS R S L I N NMVI G V S E G
 NQVVVERSSDDKDERSKHGLLYRSLI NNMITGVSEG $D T L T F S P A D E S R E A N A L Q G T M R A L V A N M V K G V T T G$
 GKI LV K R P S D NKEHRSLLHGLSRTVI NNMIVGVTEG GAI SVVKPANDSKQARAFWGMQRTVVSNLVEGVSAG SNLVVSPASDNRRSRERHGLCRTLVANMVEGVSKG $G S L L V S R P D D E R K S R S D H G L S R T L V N N L I D G V N Q G$ RSVVLERPSDDNKHKSKHGLGYRALINNMVEGVTNG D GI RLDPRNQSKTARSMWGMSRTMVANEI TGVTSG QSLVVEPVSDKGDCWAMAGTMRALLNNMVVGVSNG GAI EVVSRPNDERESRSLHGLTRSLI ANMVQGVTAG
 GAI SVKPRTDSKRARSMWGMSRSLVENLVVGTTNG NEVVKVTRPNDEALNRSLHGGTRTLI NNMI HGV GEVVVVADVDSTRVGRQMHGLCRTLVANMVEGVSQG
 VEVTVHRPNDSKEMKT@HGTTRALLNNMVVGVSEG E EVVLVTRNDESTESSNA QQGLARTVVVNMVVGVSEG

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UniRef90 ABTZJ7 UniRef90_A8TZJ7
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UniRef90_B6JEY0

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 $P$ I $A$


 P I N I P P D G V D I K L










 $P$ P V V P K GV TVV


 $P$ V $V$ S L
 $V V L P D E S V E V K M D G N D V T V V K G P N G E L D T R A F S P D D I K F N D D G$




 P I E I P P E K V E V

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 PVTIIPEGVTVEVVNDVVTMKGKLGELTQEFSSISSVKIEE



 $P \vee V L L A G V E V V K N G Q E I T V K G P K G E L A L V A H N A V V L T Q E E$


 $P V E I P S G V T L T V K G Q L V S V K G T K G E L S F K L P D S V S G K L D G$






 $P \vee P V P S G V T V Q I A G T E F I A K G K L G E S R M P L S D E V E T T I E G$
 $P$ I TVLA GVVEVVNGQEI TLKGGKGELVRTLNDAVVVKLED P I N I P A GVVTV TV D G NVI T A K G P K G Q L Q Q K I D A D L K V P I A I P A K V N V D I N G Q NV S V $P V A V P A G V Q V T L N G Q L L T V K G K N G E L S R E I H N A V E V V Y E A$

 $P V T I P A G V T A T V D G Q T V K V K G P K G A L E V T V V D E I G V K L E G$
 $P$ P $D$





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UniRef90_B3QYD9
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UniRet90 V7PZ7 UniRef90-AотOJ3 UniRef90-H2J789
UniRef90 - XOSRN 7 UniRef90-XOSRN7
UniRef90-A5FZV0 UniRef90_R6WXMO PVVIPAGVTTVTIDNNHVTVKKADAELTNQFDSNLTIIKQEG PVSTTKGVKVELKDDKVIVSGPKGTLEQKLRPEVTVSVDG
 PVP:PSGVEVKIGESEVNVKGPKGQLSQYFNSYVAVEKDD PVELPAGVDVSLDGGMITSKGPLGSISLAENQLVKVQHVN PVAIPAGVKVNVANGDFTVEGPKGKLSQDYHEAVDFKDEG PVAVPAGVKVNI ADGSLTVEGPKGKLSRTYNSLVQVKFEN PIPIPAKVSVAIDGRLVSVKGPKGELSRELPSGVVVTQED P:AADPGVVDVAVTEDQVSVKGAKGALVRPAHRLVKVSNES PVSIPSGVEIKLEDRMISVSGSKGKSDFTLPESVSASHAD PVAVPATVKVSIEGNLVTVTGPKGELQHEIPAPITAERED PVSVPSGVEVKLGEREVFVKGPKGELQQHITDVVSVKLED IIEVPEGVTITQKDEDITVKGPKGELTRHFNSKIKLTLEG PIPIPAGVKIERGTHIKVLGGKGTLERDTRPEIEVVAYD PVALPAGVEVKVDDNVITVKGPLGQLQEQLSADI NIEVKD PVAIPAGVTVTVANNVMTVKGPKGELKQPFSSNIKIDVQS PVELPGGVSATVSGQTVEVKGPKGTRSFTATDDVTI AVED I EVPENVTVTNNGSDYTVKGPKGALTRHFEPADTITQEG P PVVIPAGVEITINGQEFTAKGPKGTDSFEIPEGITATVEG PITVPA VVTVSVSDNVVTVTGPQATLSRPLPEGITGSQEG PVAIPAGVEITVNGALTAKGKRGSLSVPLSAVEAKVED PVAVPNGVTANI DNGVLSVKGPKGTLTLGLSDLVTYSVDD PI SVPK KVTLT NGQQVIVKGPKGELSRVLPPEVVVEQDG

## P P P P P P <br>  <br> $P$ $P$

| $V$ | $D$ |
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 $P$ S L P D NVVQI EVVNENTVVTVKGPKGTLVVDVDRDITVATED

 $P$ P VI P K G V




 P I VI P P A G V T V T V D E H T V A V


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 P $V$ P V P S G T T A D $\quad$ I $\quad$ K G Q T V K A K G P K G T L
 P I K L P A G V N V S V N D A M I V V K K P K G QI E Q S L L H Q D V E L S S Q E D $P V G V P S G V D V S I N G Q Q I T V K G P K G A L D L T L N D A V G V E K E D$


 P ILI P D SVVI D HRESEITVKGKFGTLQRSVPDIISLVQED


 $P \vee A A P S G V T V N I T D T D I S V K G P K G E L A L A L V D D V S V A M E G$ $P$ I AVPS GVVKVSVA D G IVVNVEGPKGKLNCAYRPEVII DIKG
P $P$
$P$
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 $P$ T P T G EVV KL S G A N L S V K K GP K G T L S R D FP G DI T I N I E D
 P I A V P S GVVKI E L K D H S I K A S GP K G E L S WK Y P D E I A V E F E E


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 $G Q L V V T R P T E Q K R H K A M H G L L Y R S L L N N A V S G V S N G$ S LLTFAATKENKHSKAMSGTVRALVNNMVEGVSKG
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 GKLSFAPVDESREANAMS GTMRQQVNNMVLGVTKG $K$ Q L V T R S D D E R E S R S L H G L T R S L V A N MV Q G V T D G NEVLVVTRPNDEPK ARSLHGLLTRTNI ANMVNGVVNG


 GS LIVVNVK DNTRSNRALHGGLYRTLINNMVTGVSE D TLLSFEVDEK SK QKQAYH GLYRSLVNNMVVGVSEG

 $N V I R V K W D D S V K G A K A H A G T A R A S I N N M V K G V S E G$



 $N L L T L A A R E R V S D G W A Q A G T A R A L L N S M V I G V T E G$ S F L RVRKTVETRRANQMHGLFRTLTDNMVVGVSKG ATLLQVSPK GGDLSKYADAGTMRALLSNMVTGVSKG




 G QLVF A ARE GAK D GWAMAGTTRAGTNNMVI GVSE G K S V SVVNRA D D A $\square \mathrm{K}$ S R S A H G LTTRTLIN NMVVGVTKG $N Q V V V E R P D D S R Q C R A L H G L L T R A I I N N M V Q G V$

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GEI AVNP QTAKARPFWGMQRTLVQNLVTGVSEG NTLTVSVKDENEFQRWVWGLLSRTLI NNMVVGVTAG NVVLVEPRDQSKGARSKWGMSRSMI GNUFCGVKDG GKL SFVPADDSREANAMSGTMRQLVNNMVTGVSKG GVISVYPNDDSKKAWAQAGTARANI NNMVLGVTEG $T K L Q V I K W F G S R K E D A C V R T L C S H D E N M I K G V T M G$
$N V L T$ GALKFEMAREGRQAKAMLGTTRALVANMVQGVKHG GKVVIECTFPRKVQTATVGTYRSHI QNMITGVTDG EGVLVEKKGKSKDAPAIWGTTARMVENMITGVSQG NELLVIPENYTKAQNVDHGLYRSLINNLVVGVSEG KEVKVLPAEVQKKVKAFHGLARALLNNWVVGVYKG NKISLERTNENKKTKMLHGTYASLIKGMI DGVTKG KKL RVVKWWGNRKE DATVRTDCSHVQNMIKGVTLG GAVSVNPRDDSKVARSKWGMSRTMVVNDFTGVKG QEII IVENRDNSKRTNAFRGMTRSLIDNMVTGVNEG GLVKVERDNDSKRSRAMHGLYRMLLSNMIEGVTKG DHIHVVAGSENRKVLALQGLYRSLVNNMVQGVSTG NNLSVSRNADDKVSKAMHGTTRQLVFNAIEGVTNG NEVRVSPANSSRHARAMYGTARSII NNMVTGVVNG NTIRVRKWFGITRKEVAADRTVCSHI ENMIKGVTKG NHVAVAPLDGSRDNWTMWGTTRAVIANVVKGVSEG KVLKVEKWFGKHKELDADRTVCSHVENMIKGVTLG GHVHVSCRKDNSRAHSMHGLTRVLI HNMITGVTEG
 KEI WVIDKKDYKRLAKYAGTFWSLI NNMIVGVTQG
 TTAKVSRENDEKDLRAKHGLVRSLLQNCVTGTSAG SCLVFSR NS SVKGWAQAGTARSLVNSMI HGVTVG KKKKRLRVDKWWGNRATVRTLCSHVQNM KGVYGG NKVWVSPRKETGDNRSAWGTARAQI NNLVKGVSEG KCLKVEKWFGTKKEDAAVRTVCSHIENMIKGVTKG GKVIVEGFYVDRKKKALVGTI AAHI SNMITGVTKG GVLTFEVADESREANALSGTLRALTNNAVDGVTKG NT RVDVWFALRKHDACLRTVCSHIENMIKGVQFG DALSFACVDSQAQSRAYWGTYRALANNDVVGLSQG NALTVEMTKNDKFTHAMQGTTNANIRNMIEGVTNG GHVVITRATETRTARAQHGLRRTLLANCIQGVTKG NVVSFTRKDEEKRTRAFHGLVRALVANNVLGVTDG NELEVVPDVQSKGSYATAGTMRSLVNNLVVGVSQG GEVVVDAESSRKEQKAMVGTFASHLKNLIIGVSEG GKLRVFKTVETKRANQMHGLERTLTDNLVVGVSKG DGVSVTRKNNEKLLKSLLHGLTRSKLNNMVKGVSEG GNVTTTRANEAKHTKQLHGTTNSLLQGMLTGVSEG NKITFSDRSGFSDAWAQAGTSRALVNSMII GVSK NTVVLARVGETKESSAFWGTYRALLNNAIVGLSEG NNVVVETHGATKKDYALVNTIASHI NNMIIGVTRG EQLVCSPVEGVEGAGALWGTMRANLNNMVTGVTKG EKI RVDA WLID DKKALDCVRTFCTHVMNMMKGVTYG NIISIEPKNNNARTKATWGTTRALIKNAVLGVSDG GFVKLDPVDA KKSKALYGDYRALI YNMVVGVSVG NDLTVSRPSDHKEHRALHGTTRSLLGNMVEGVTNG GKVIVETGKDDKQTKATVGTYASHIKNMMTGVSEG
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UniReffo- -1 MOL 6
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HEVVIKTTRANEEKHTKQLIHGTTNS\| I ENMI ${ }^{70}$ GIVISKG KTVLIDLWF GTRDQ円AA!STVASHIENMITGVTKG SLI KITVHNGDRKHVATLRTVKSLIANLIKGVTLG GTLKLERSSEEQNVVALHGLTRALLLLNCVKGVTQG GNLKVDLWFANRKQLATIRTVCSHIENLMTGVTKG AEVIVTVWFPKGQQKSLPRTITAHI QNLTTGVTKG RAVKLEVWFGRTKALACMRTCTSHI NNMVTGVTKG NKVLLSVWQGGRKHVACLRTMRSLIENVDGVTKG GKVTLAVWQGGRKHVACLRTIRSLINMITGVTKG QSVTVSKIEGAVNSGAMWGTMRANLNNMVTGVSKG KQLSFTLLDDMPQSRAFWGTYRALANNUVVGLHEG EKVVVESTFPKKNQTAMVGTYRSHIQNMI KGVSEG GTLTVENRSGERESRALHGLHRTLENAVTGVHTG GEITTVRSNEEKTTKQLHGTTNAIITKNMLTGVSEG RAVRVDMWFGNRKELACVRTLTSHINNMIKGVTEG NLI QAHDHNGDRRHVATLRTVRSLITNMITGVTVG RELTVNKWFGVKKEVAAVRTICSHIENMIKGVTKG
 SHLSFRPQSEQAENWAHAGTACALANNMIKGVSQG NEI ITTRPSDSRKDRAMHGTПRSLVQNDI ПGIKTG QTISVEKWFANRKGQATVRSILGHI SNMI KGVTKG GTLRVRKAVETRRANQMHGLFRTLTNNLVVGV GHMI AARRDDT REAPLHGLTRALLKNAVEGVTKG GHMI AARRDDT DKIKLIVWHGTRKHVACLRTVKAHI ENMITGVTKG TELIVSLNTYDKTSKQLYGLSRTILNNMVIGVSKG KTI KVEKWFGKKKQ AA AVRTVCSHI ENMFKGVTLG RVLKVEKWFGTKKEIAAVRTVCSHI SNMLKGVTKG NTLTTQRILNEEKATKQLHGTTNALLANMLKGVSEG KVLKVDCHFGKKKRLASDRTVCSHVKNMFTGVTKG KRLQVDKWWGNRKELVTVRTICSHVQNTMKSVTLG KKMMVEKWFGTKKEI AAVRTVCSHI ENMIKGVTKG GKVLLTVWS GSRKHVACLRTIRTMI NNMVIGVTKG NRIRLIIWHGGKKHVACLRTIRSLINNMI GGVQG RTLTAl RWF GSKDP IJCLNTAKAHI SNMI TGVTRG DHIVVSCKFPKVKDKAMVGTFASHI RNMI EGVTLG NELTLIRPSDERKDKSFHGHRSLIANKIQGVNE GRLEVKRASD EHAAVHGLTRALAANAVQGVSAG NQLLI IRNKEDKKSKSLHGLYHVLIKNMIIGVTKG GELI STESQRKK IYAMLGTYASHAKNMFRGVNE QLIKVAVHNGGRKHVAALRTVKSLVDNMITGVTKG PEKKVFKAEENKLSQALYGLSRTLLSNMVTGVSSG GVVAI ASENEDAKTNATVGTFESHVANMI HGVTDG RKI TVEMWF GDTKNKACDRTVCSHIENMITGV GEVVVSTASEKKR ILAMTGTLEAHAKNMIRGVADG SSLKFRMWLQKKKRNAVLGTVRSTMRNMI QGVTVG NKILSAENTTKREKTMLGTFTAHIKNMI KGVLEG NTLIVKNDNEHKKANAFHGLYRSLI ANAVEGVTNG KVVRVETHFGKRKQLASIRTCDSHINNLIVGVTKG GHLHVVRHDDSRQAAIHGLLTALVANAVRGVTQG GNIVFTSKGDDRQSRAYWGTYRALANNVVVGLTTG KKLQVDKWWGNRKGLATVRTICGH| QNMIKGVTEG ETLVVRTDASRKQUVAMVGTLAAHIRNMCKGVTE GHIVIESDESDAKTNATVGTFESHVENMLYGVTEG KDLI EDHHGSRKNVATLRTVRSLINNLIDGVTKG GKIFVLPKKETKRTKAFWGLIRSLLFNMVKGVTEG RAIKITVHNGERKHVAALRTVKALI ANLITGVTKG
 DEVVI RSDSGRKKKRAMAGTYASHLKNMITGVESG NRVTLAVWQGGRKHVAVLRTLRSLINNMI DGVTKG DELQVNKWFGKKKEVAAVRTVCSHVSNMI RGVTKG
$N S V V V E S F F A K A R Q R A L V G A I A G H I V N M I K G V Q G G$ GELRFAARNGDQQTRAMAGTTRALVNNMVDGVSQG GVVQLGAANLD DMKMAGTVRAILANMITGVSEG NVI NVERRNNDKLSRSLHGLTKRLLENMVQGVLTG NEI VTKANNDSKEANIINVGTMNSLI ANMVEGVSTG SRLVVRKWFGDKKELATVRTVCSHVENMIVGVTRG KKFTAIRWFGNKDNISCINTALSMVRNMIVGVTKG KVLQVMPADESREADALAGTTRANVANAVTGVVEG RTLKVEKWFGTKKEDAAVRTVCSHIENMIKGVTLG GFIKVELSSTKKLNKSTTGTARSKI ANLVQGVSKG
 NTLTFSTNSDQRTDRAFWGTYRALAANITGLTTG QSLKTTRNSETKQVKQLHGTTNSHLSAMI DGVSKG KRIVVTKYFGNRKELAAVRTVCSHISNMIKGVTSG SLSIVAENAEEKKQRSMWGLTRTLINNAVVGMTEG DEIKILADKEDTDARTQMGTLYSLLNNMITGVSAG NYLTIQALLNSSKARSIVGTINALISNMIRGVTNG NQILTRKDDSGQLPAFHGLCRTLANNAAVGVSSG DKVRVDVWFASRKELACVKTIITHIENMDKGVDYG PEVVGVENSAVKEQRQMWGTTRSLI NNAL GMTEG GVATISLAEGTDD MFGGTARALLANMVKGVSDG


GSVTVDSTSARRSVYALLGTYKAHILGVMSKGVVEG $T R V V V Q K F H G N R R E S S L V R T V A T H I Q N M I V G V T K G$
 $G V L T T E R P D D \quad K H A A V H G L L A R A L V F N A V E G V T N G$ R KLKI DA WF ATRKTSAAIRTALSHVENLITGGVTKG NQ WVVKPR GETKTARMQWGTTRAARINNMMIVGAG DLI HI E LDH H G S R K NVA T L RTVRTVI NNLI IGGTK G $R \mathrm{KLKV}$ K A WF GTRRTMAA I RTA I S HV Q NLI TGVTKG $G H L L T E R Q N D$ KQAAFHGLARALVFNAVTGVTAG G A L H F E Q L E E S R E A N A NV G TMMR A L V A D M V K G C S V G


 K Y I K V V M WF G VP D S LIA Cl R TV CTHLK NMFTGVTK

 KEITII ATES GRKE DT A MVGTFEA HAKNMCRGVT D G
 KKLLKI DA WF GSRKTTAADRTADSHVSNLI KGVTKG GEFIVVTESTRKK $\quad$ TYAMLGTFVAHAGNMCRGVQE

 D QVVI ESAAEDAKTNATVGTTESHLKNAFHGVTEG G K V R V F T N N K R K K L K A M V G T F A T H I E N L VR GVVK E G
 DTVVI ESSDEDNAKTMSTIGTFQSHIENMFHGVTEG GQMTVQREDDSREARSLHGLTRT■LANAAKGVSTG TEVTVMHRNDSKEMKTLHGTTRA
ETRRQVRADRNERRQREMWGTTWAYLNNYDMGVSEG $N N I V \operatorname{IVRKHNDKKNRALHGLYRMLI} Y N M I K G V Y N G$ $G V V L V K P V N D S K L A R D N W G T V Q R R L A N M V N D V T N G$



 GTAVFT TPDAA LI P LTGGTL RAIL ANMVKGVSDG

 G VI D I S L H H G N R K N I A A L R T V K S I I V E N M I T G V T K
 D K I I R P L L S G D K H S RAMWGTAR S I I N N MVK G V N S G
 GVAHIS LVVEGADD MF GGTARALLSNMVTGVSGG SEF Q I QPKK IDDKK T S $\square M W$ GTYRS L I N NA V T G V S K G K K K K R L R V D K C
K S VVIV K WF A S R T R $\square$ A A $\square R T$ C L T HI S N MI T G V T K

 GQVVVLTK $\quad$ GGETKESAAFWGTYRALTTANA NGGLHE G


 DILLKVGMDANTKK QRAMWGTTRAALANNVKGVT D TLLT FEPEENSKFARAMWGTVRAL ANNAVDGLTQG

 NNLII ERKNNEKKVRSVHGLYRQLI DNSVLG K R L RV D K WWGNQKELATVLTTIC SHVQNMMKGVTGG Q K L K V S C WLA N K K A L S CVVRTVA S HIV N M I K GV S Y G K R L R V D K WW G N R K E L A T V R T I C S H A Q N T I K GA T L Q T L L N L Y K V H E N K E A Q K L Y G L S R T D D I II K A T G N R K F H L S I M N TAR S L I TNMM K GAT N G


 K MLMMVENKHSTKAKVMWGSYRSNI NNAI RGMAS G
 G K
 D NV K L Q DWQ A S RK E R AVLLQ S IA S QI K N MI R GV T E G DVVTI ETDETDAKTSATVGTFESHVSNMIHGVTDG

 NTVALTVEDASRKQRAMWGLLTRTLI HNAII GMTEG $N$ NLAA E I H H G ERRKAVA TVLRTVRTII NNVI I GV T R G NSLIVRCYYNNKSSSADVRTITSIIMNMIIGVSKG $K L N I S V N D A A E K H Q R S M W G T M R A L V Q N S V G G V S E G$

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UniRef90 A9A5H9 UniRef90-A9A5H9
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| iRef90-Q17ZC |  |
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| UniRef90-A4RVV0 | Y |
| UniRef90-AOBDI5 | L |
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| UniRef90-B2XTE1 |  |
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| UniRef90-TOND63 |  |
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| UniRef90-A0A024S5T4 | DKEQKEMWGTSWSYLNNHITGVSEG |
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| UniRef90-R7ILJ3 UniRef90- H6BWA4 | DESRESNQNSGTMTALVRSMNTGSVG |
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| Uni | KGLWVDKWWGNRKELIATVHTFYSHVQNVIKAVTLG |
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| UniRef90-K2C3B6 | SQLEVKSNSPGTIAN LHGLYRSLTQNAI IGVKTG |
| UniRef90-H8WWD7UniRef90-E3QRM0 |  |
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| UniReet90-F4G1P6UniRet90 F2H115 | G |
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|  | KKFMTQKVNNSKQSRSQYGTDNALVLNAFVGLTKG |
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| UniRef99-808H95 | EHVAIKLWNGVRKERAKVTTCASII RNALNGCDKG |
| UniRef90-T1CUQ3 | G |
| UiRef90-M3J9Y7 |  |
| UniRe990-O75AQ0 |  |
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| niRef90 J7G1W9 niRef90 A0A023RRG8 |  |
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| UniRef90_G1T |  |
| UniRef90_G3GXF9 | KRLQLDDKRWCNRKELA |
| UniRef90-UPIO0037C47AF |  |
| UniRef90-L8X8S1 | NQVTLAVWQGGRKHVACLRT |
| UniRef90-V6DHT9 | K NLYLTPNKIVRDTNMFWGLHRALVANK\KGSDLG |
| UniRef90-A0A011RYG2 | DSLLCKPVDGVAQSDALSGTVRAVVANMVTGVSKG |
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| UniRef90-IOYSU5 | A ALKLVPEQRCTQNKAFFGTLQSLLRNKI EGVTKG |
| UniRef90-A0A022PTM1 | KKLKVDAWFGSRKTTASDHTALSHVSNLINGVTKG |
| UniRef90_G4UZ48 | EARRATANRDEKEQREMWGMANT |
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| UniRef90-XOWIA8 | K E ${ }^{\text {K }}$ |
| UniRef90_K4RL17 | NTLRFEPMGEGAQDKAFWGTYGALASN\\|VTGLDKG |

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