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C
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| UniRef90-14X681 | NY LF S K G N L E D M L P P S |
| UniRef90_G2DZG4 | E Y R F P V T TRQLEAEH T |
| UniRef90-A4J474 | NYHFDKKDLQRILKR |
| UniRef90-S7TWK8 | T Y V F DVESLQALI E E L S |
| UniRef90-R5W6L3 | S Y EFEVEELLQNLL N |
| UniRef90-UPI0003B3D4B6 | K Y F F D |
| UniRef90-UPI0004648BF5 | H Y S F N A D D Q A L L G Q T |
| UniRef90-UPI00024904DA | KYEFSETELKKI L |
| UniRef90-R6GF09 | NYNFSVDELKELLE |
| UniRef90_D3PP19 | K Y Q $\square$ T P E EI R S L |
| UniRef90_R6J2K8 | TYS FTPEQL NDLLKK S |
| UniRef90_U2QUC9 | VQHFSRADLEAM |
| UniRef90-R5JM74 | K Y Q F T E E EL R E I L G E |
| UniRef90_V7HY56 | KYEFSEDELREL |
| UniRef90_UPI00036A6F48 | R Y $\square \mathrm{F}$ S |
| UniRef90-U4TKN0 | K Y TY T E D E LR NMLLA |
| UniRef90-X5JPE5 | VY Q A N R D HL S Q L I S |
| UniRef90-B8FS68 | RYHFNEEELRELYEQS |
| UniRef90_V5UIP6 | TYHFDKVDAA QL F TEQS |
| UniRef90-Q7NWI9 | RYVFDEEDANQLED |
| UniRef90-U5DT68 | VY R A S S DELT QL VEE |
| UniRef90_UPI000365D837 | K Y H Y T A A DI E TLL L D N |
| UniRef90_C4Z899 | A Y EFTVDELKEM |
| UniRef90-W4RQL9 | K Y M F |
| UniRef90-N2AGS0 | A Y S F DVEELKNMLK |
| UniRef90-B7A7C4 | VYRLLS PEEI RS LVAE |
| UniRef90-K9Y765 | $V Y$ Q A REELVELVEK |
| UniRef90-R2QH91 | K Y HYS EE DL I GL R DEA |
| UniRef90_G7WG32 | RFQFNVEELQEI WEQA |
| UniRef90_U2ZIS4 | $R Y F F D A S D V A Q L F$ |
| UniRef90-B1KN30 | N Y S F D S $\square$ DVA A F S N T |

UniRef90_Q9CE86 UniRef90-F4GXE3
UniRef90_UPI00047C9EB2 UniRef90-R6TS37 UniRef90_UPI00035FCD14 UniRef90-W7Q0T8 UniRef90-UPIO002DFB0B6 UniRef90_B4WNE1 UniRef90-KONSS3 UniRef90-W0E9T9 UniRef90-B5IHZ9
UniRef90 F9DVC4 UniRef90_U4KQQ1 UniRef90-W0E2Q9 UniRef90-U1EQQ6 UniRef90_C8W6G1
UniRef90-E8XV21 UniRef90_COZIC7 UniRef90-UPI000364454F UniRef90_N4WX52 UniRef90-I4VU10 UniRef90-B1Y4J3 UniRef90_UPIO003650A9B UniRef90-E3C8L2 UniRef90_UPI0002896CA2 UniRef90_UPIO003F4F040 UniRef90-K2JSR0 UniRef90-R6GXV1 UniRef90-A7FNU7 UniRef90-LOWEY1 UniRef90-D4JOT9 UniRef90-Q1QU53 UniRef90-R6X8T5 UniRef90_TOCAM5
UniRef90_QOIAP2 UniRef90_V8G927 UniRef90_UPI0001E2D969 UniRef90_A6GUX4
UniRef90-R5JZY7 UniRef90_Q48BY8 UniRef90_V2ZAH1 UniRef90-R8W9G5 UniRef90_C0EJ62 UniRef90-F5ZJN6 UniRef90-RGTGW6 UniRef90-G4KVP8 UniRet90_J9GZH0 UniRef90_U4K9N8 UniRef90-K0C4H3 UniRef90-I7KGH4 UniRef90-13UDQ9 UniRef90-K4KKW6 UniRef90_UPI0004056ADC UniRef90_UPI00036503D1 UniRef90-D1P0D4 UniRef90-N2ALJ8 UniRef90_C0N786 UniRef90-C1DKD3 UniRef90_UPI0003B31705 UniRef90_UPI0003F63B3B UniRef90-UPI0002490C88 UniRef90_R5FX01 UniRef90-G4SZL7 UniRef90-B1CBS7 UniRef90-R7NJE0 UniRef90-A6SXG5 UniRef90-UPI0003497CAD UniRef90-B8E3S8 UniRef90_UPIO0040BA910
Uninale UniRef90-W6M4G6 UniRef90-E7MNS2 UniRef90_UPI0003B53D33 UniRef90-ETRWL2 UniRef90-E4PFZ7 UniRef90_F2NLH9 UniRef90_U3RIO5
UniRef90 D4JCE1 UniRef90-R6EQ74 UniRef90-B7V3U0 UniRef90_UPIO004769B62 UniRef90-H2CEP8 UniRef90_UPIO0034BEC21 UniRef90_R5FT55 UniRef90_C5B2E1 UniRef90_UPI00036FD7C7 UniRef90-I3EC55


353D33 HCPCNRERVAAMLQALGREEI EDLLSEREKDD LCNCEN





## R

R C
 $H C P$ C
 C N C G H D K F L N Al K GL G EA EII K DMI EK DH GAEAECHE CR N YCS STRERDERMLAGLGEQELRD\YETTGQVEVICHFCGE

## R

 CKCSAD KVVQQALI SMMREEMEGLI E EQGEAEVHCHFCNE CRCTRERAMASLVYFSSQEREEMI AEDGGAEVVCHWCGH CTCSRERVGRMLVSLGRAEVDSVAIDE
R CNCN K QRFA H A L E S I I S A D D L K K L I
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## R

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UniRef90_M1T3C4

| UniRef90 Q9CE86 | K Y E Y S EDELLKALL LK |
| :---: | :---: |
| UniRef90-F4GXE3 | P Y QF DA Vid CA GL |
| UniRef90-UPI00047C9EB2 | RYDFDREQLA |
| UniRef90-R6TS37 | K Y Lif S HEDLREMFDR |
| UniRef90-UPI00035FCD14 | GYAFDLVDAAQL |
| UniRef90-W7Q0T8 | HYRFGEVEVEA |
| UniRef90-UPIO002DFB0B6 | RYYFDKPALQN |
| UniRef90-B4WNE1 | VYHANSDQLQNL |
| UniRef90-KONSS3 | KYQFSEDELKD |
| UniRef90-W0E9T9 | HYQFDEKELMELYEQA |
| UniRef90-B5IHZ9 | V Y GVVS GVEL G D |
| UniRef90-F9DVC4 | TYQYSEQELK G |
| UniRef90-U4KQQ1 | KYHFSENDLKDIINN |
| UniRef90-W0E2Q9 | T Y RFDPVDARQLLA |
| UniRef90-U1EQQ6 | KYQFSEAELQA |
| UniRef90-C8W6G1 | KYNDQEQELGKLLQ |
| UniRef90_E8XV21 | D Y F F A M D M T LKA |
| UniRef90-COZIC7 | RYHYDRSALED |
| UniRef90-UPI000364454F | K Y R ITT P E EI R SLL S E A |
| UniRef90-N4WX52 | QYSFD ITELKA |
| UniRef90-14VU10 | QYHFDRIDAEHLLSES |
| UniRef90-B1Y4J3 | QYRYDPVDVA |
| UniRef90_UPI0003650A9B | T Y RLD AVDAGQL F A A S T |
| UniRef90-E3C8L2 | KYEFTEDE |
| UniRef90-UPI0002896CA2 | VYSFDEKDLEIM |
| UniRef90-UPI0003F4F040 |  |
| UniRef90-K2JSR0 | RYQFD AVDI A G |
| UniRef90-R6GXV1 | D Y QF GPEEI QN |
| UniRef90-A7FNU7 | HY LIF D AVDIATLKNGNS |
| UniRef90-LOWEY1 | RQHFDAVD |
| UniRef90_D4JOT9 | A Y EFTIDE |
| UniRef90-Q1QU53 | HYRFTAAD |
| UniRef90-R6X8T5 | KYKFSASDLRGL |
| UniRef90-T0CAM5 | VY QFSRADLDRMI Q |
| UniRef90-Q0IAP2 | VYKVDEKE |
| UniRef90_V8G927 | PYVFD |
| UniRef90-UPI0001E2D969 | K Y QFSEKELLD |
| UniRef90-A6GUX4 | NYSFTRADCN |
| UniRef90_R5JZY7 | KYSFSVDELKEM |
| UniRef90-Q48BY8 | R Y Lif D A D V A Q L |
| UniRef90-V2ZAH1 | KYEFSKEEI GKL $\square$ K E |
| UniRef90-R8W9G5 | V Y S F S |
| UniRef90-C0EJ62 | TYTFSKQELKNFL |
| UniRef90-Q3A7V6 | RYSFSSDEIKA |
| UniRef90-F5ZJN6 | VYTFDETNLEG |
| UniRef90-R6TGW6 | KYYFTKEDLDD |
| UniRef90-G4KVP8 | VQTFTKAELEVLLSAA |
| UniRef90-J9GZH0 | HFHFEKSDLDQL |
| UniRef90-G8AT57 | A Y HFDDADLDRVYGTA |
| UniRef90-U4K9N8 | NYSFDESQVSEL |
| UniRef90-K0C4H3 | F DADDI E QL |
| UniRef90-17KGH4 | KYHFSEDELKKILAE |
| UniRef90-I3UDQ9 | P Y TFDADDCAR |
| UniRef90-R5KTQ4 | TYKFSVEELKTLRKQ |
| UniRef90-K4KKW6 | HYAFGAAQI RALFEDS |
| UniRef90-UPI0004056ADC | A Y SFSPDNLREMMQRA |
| UniRef90-UPI00036503D1 |  |
| UniRef90-D1P0D4 |  |
| UniRef90-N2ALJ8 | A Y TFSVEKLGQ |
| UniRef90-C0N786 | HYHFDRVDVTELFTNT |
| UniRef90-R6GZY4 | VYEFDRQQLEQL $\square$ A DA |
| UniRef90-C1DKD3 | RYEFDA |
| UniRef90-UPI0003B31705 | RYVFDEEDCTQ |
| UniRef90_UPI0003F63B3B | GYRFGADQVEALFRQ |
| UniRef90-UPI0002490C88 | KYLFSEEELKKI QAQS |
| UniRef90-R5FX01 | A Y If TVKELQE |
| UniRef90-G4SZL7 | NYSFDR $\mathrm{S}^{\text {D }}$ VVEGL |
| UniRef90-P73910 | VY QADRHHLA QLIGE |
| UniRef90-B1CBS7 | EYHLDEKELSELI KE |
| UniRef90-R7NJE0 | KYVFTKEELQKI ID |
| UniRef90-A6SXG5 | HYEFDPVDCAQ |
| UniRef90-UPI0003497CAD | RYAFDKVDCAQL |
| UniRef90-B8E3S8 | K Y I F D A I DVA ALIFAN |
| UniRef90-UPI00040BA910 | K Y LF S TADLESIL |
| UniRef90-W6M4G6 | RYAFDTVDI A GLLASAS |
| UniRef90-E7MNS2 | EYRFTPEELKEVL |
| UniRef90-UPI0003B53D33 | YYKFEDDELKAILEEK |
| UniRef90-E7RWL2 | PYRFDTQQVAA |
| UniRef90-E4PFZ7 | HYRFDRNDI DHLFTGHT |
| UniRef90-F2NLH9 | VYR $\square$ T P E EI Q GLRVEH |
| UniRef90-U3RI05 | MYQANSDHLHQL |
| UniRef90-D4JCE1 | RYDFSEEDLRK |
| UniRef90-R6EQ74 | KYKFDKAHLEK |
| UniRef90-B7V3U0 | RYLFDASDVAQLFAGA |
| UniRef90-UPI0004769B62 | Y SLDSIDDAK |
| UniRef90 H2CEP8 |  |
| UniRef90-UPI00034BEC21 | VYQADSDQLARLID |
| UniRef90-R5FT55 | KYVFTKDDVET |
| UniRef90 ${ }^{\text {C5B2E1 }}$ | $R Y \vee L D P A$ |
| UniRef90-UPI00036FD7C7 | VYRANCDQLS QLIE |
| UniRef90-I3EC55 | 1 Y V Y S K |
| UniRef90_M1T3C4 | A Y RFD A V D C R Q V/FK |

 UniRef90_UPIO00476B0DE UniRef90_A5VX31 UniRef90_R5EVN9 UniRef90_UPI000379CD89 UniRef90-V6MH94 UniRef90_A1AUF5 UniRef90_L8J763 UniRef90_B7JV16 UniRef90_V7I500 UniRef90_B5JU50 UniRef90_Q092R9
UniRef90-J7TAI2 UniRef90_J7TAI2 UniRef90_B0K8A4 UniRef90_D3VFV1 UniRef90-A4SS61 UniRef90_B3WAN3 UniRef90_Q1YS12
UniRef90 D8GSB9 UniRef90 U7V4T7 UniRef90 Q9KNK2 UniRef90_UPI000465FD6B UniRef90_Q7NA46 UniRef90_A3YY76 UniRef90_E3BIX2 UniRef90_J9E7K9 UniRef90_UPI00018507E6 UniRef90_R6YB77 UniRef90_B8K8W1 UniRef90-V5FFV5 UniRef90-K1SWR3 UniRef90_UPI0003650B3B UniRef90_W9AB33 UniRef90_C5BLL7
UniRef90_R7FDI9 UniRef90_X2HAB4 UniRef90_S6I5S1 UniRef90_H5SLW7 UniRef90_A0A031MJT7 UniRef90_N1VSJ4 UniRef90_UPI0003B52D6E UniRef90_UPI000309B97F UniRef90-D4ZEB4 UniRef90_Q1MYI4 UniRef90_G9ZQ69
UniRef90_J9FWU3 UniRef90_UPI00047D617B UniRef90_R6TZ40 UniRef90 ${ }^{-}$DBAC0 UniRef90_UPIO004696E1B UniRef90_R6NZG5 UniRef90_M4VCV7 UniRef90_V5BGI3 UniRef90_UPI0002FB2805 UniRef90_R6BIS1 UniRef90_R5KMK8 UniRef90-E1L6Z1 UniRef90_T1I3K0 UniRef90_B0TGU1 UniRef90_G2KSJ8 UniRef90_W4LMI5 UniRef90_D4FCX1 UniRef90_UPIO0047DA887 UniRef90_R5MEE1 UniRef90_UPI00036D407F UniRef90_X2H7M8 UniRef90_UPIO002558B54 UniRef90_C7N1Z3 UniRef90_U2SQ99 UniRef90-C5NUB0
UniRef90-A0Y9Yg UniRef90_V7IDW0 UniRef90_D0LGQ2 UniRef90 C7H0J9 UniRef90_UPI000372868F UniRef90_F2JLX2 UniRef90_Q21EJ8
UniRef90-R5AEW3 UniRef90_R5AEW3 UniRef90_K6YMQ7 UniRef90-W7DGZ5 UniRef90_UPI000345FC60 UniRef90 HOJEW8 UniRef90_R5IHH5
UniRef90-B7S032 UniRef90-B7S032 UniRef90_W1Q157
UniRef90_UPI0002FBDC6 CDCSK D RVVAEVFAAI GKKELKKAVI DEDRGAEVGCQFCES




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## Q

 YCPCSRDRVMEMLI AMG NCDCSKEKYAG LLETLK S Q Q
## Y Q Q C <br> Q C

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## Y

$N$ N $\operatorname{N}$ RERVA DML RMLLGT

RCDCS R E R IVERA L I S V G A S E L T S M I E SVGA S E L SMA Q D GCADVSCQFCGK

 CRCSRERVMGMIRRFSDEDRRHMIGENGR\|GIGCEFCSR Y C G C S K E A Y G H G I Q S L G R K E DQ A M I D E D G G A E V V C H Y C E N

| UniRef90_UPI0003468EE9 | VYY Q A E T Q L ${ }^{50}$ QLL $\square$ A |
| :---: | :---: |
| UniRef90-E0E4Q3 | KYS F SEDELKEI Y ${ }^{\text {K }}$ |
| UniRef90_UPI000476B0DE | A Y Q E R E DLEQI LE Q T |
| UniRef90_A5VX31 | RYFFD A S DVA QLIFA |
| UniRef90-R5EVN9 | VY S F T P E DI G K L L E K |
| UniRef90_UPI000379CD89 | KYAFS GEELETLIDR |
| UniRef90-V6MH94 |  |
| UniRef90-A1AUF5 | S Y QF DA DELKALA E T A T |
| UniRef90_L8J763 | S Y D F D S $\square$ D VA AL FEN A |
| UniRef90-B7JV16 | VY Q A S S D L A QLID |
| UniRef90_V71500 | T Y $\square \mathrm{F}$ T N S D L K K L I S E |
| UniRef90-B5JU50 | Q Y R F A V D V T QL F |
| UniRef90_Q092R9 | H Y V DP GPEI RELLT A A |
| UniRef90-J7TAI2 | H HIJFDEQDI HEI RTQKN |
| UniRef90_I7LFF1 | K Y K Y S EAELTM L L S K |
| UniRef90-B0K8A4 | K Y L I E E S R L K ELL |
| UniRef90_D3VFV1 | HYLLFEEKDINEI K |
| UniRef90_A4SS61 | Q Y Q F D D D V E T L F S R A |
| UniRef90_B3WAN3 | QYHYSVADLEALMARH |
| UniRef90-Q1YS12 | EYRFTAADVT QL F D |
| UniRef90_D8GSB9 | S YKFTHEQI GEI LKNCT |
| UniRef90_U7V4T7 | R Y S F K R D L G E |
| UniRef90-Q9KNK2 | TYSFDSAQVAELYAPSS |
| UniRef90_UPI000465FD6B | EYHFTANDVA HLIFN |
| UniRef90-Q7NA46 |  |
| UniRef90_A3YY76 | VY GVEE E E L R ELI A E L S |
| UniRef90-E3BIX2 | NYTFDKNEVDALIFD |
| UniRef90-J9E7K9 | VY T F E E E ELESMMA |
| UniRef90-UPI00018507E6 | $\checkmark$ Y N Y S |
| UniRef90-R6YB77 | K Y VF T K A E I A E LA K Q A |
| UniRef90-B8K8W1 | TYTY DEAEVSELIFDEAN |
| UniRef90-V5FFV5 | TY DFNAAEVEELFAQ |
| UniRef90_K1SWR3 | K Y R F S EELKELL I K R |
| UniRef90-UPI0003650B3B | T Y R F D P S D FEA |
| UniRef90-W9AB33 | S Y D F D S $\square$ DVA A LR D N S |
| UniRef90_C5BLL7 | HYAFKEEDLQRLFS GS |
| UniRef90_R7FDI9 | VYT T Q P E ELKAM |
| UniRef90-X2HAB4 | R Y VF DEA DVNSLF |
| UniRef90_S6I5S1 | R Y L F D A A DVDQL FA G A |
| UniRef90_UPI0003660045 | QYHFDKVDVESLLADET |
| UniRef90-H5SLW7 | E Y VLGRDALQELL |
| UniRef90-A0A031MJT7 | R Y L F D R A A V VELFEK A |
| UniRef90-N1VSJ4 | A Y Q F S F DVEKFFNQ |
| UniRef90_UPI0003B52D6E | A Y K F S $\square$ D D L K E TRK |
| UniRef90-UPI000309B97F | A Y QFS QSDI EKLLDR A |
| UniRef90-D4ZEB4 | NYS F D S $\square$ DI A A I F S N A |
| UniRef90-Q1MY14 | HYSFTQSDVNGLF |
| UniRef90_G9ZQ69 | K Y HYNDDELAA I A T A |
| UniRef90-J9FWU3 | N Y VF S VEELKEIL R K |
| UniRef90_UPI00047D617B | Q Y HFDKVDVENLL |
| UniRef90_R6TZ40 | K Y LFTAKEI E DFI |
| UniRef90-D7BAC0 | R Y W IT P P El R S L A E P S T |
| UniRef90_UPI0004696E1B | R Y SFSAAEI ES I |
| UniRef90_R6NZG5 | K Y IF N K E DLEKI I K E K N |
| UniRef90-M4VCV7 | P Y VF T M DEVVEI RDR |
| UniRef90-V5BGI3 | Y Y R F D K I D V E Q L |
| UniRef90_UPI0002FB2805 | D Y EFDSVDI SAI FNQ T |
| UniRef90_R6BIS1 | KYSFTPNDI K NLITK |
| UniRef90-R5KMK8 | RYEFDLEDI K S L I K K |
| UniRef90 E1L6Z1 | K Y HFSKKELEDMF |
| UniRef90-D9PL84 | H Y R F D A V DVGEMF |
| UniRef90_T1I3K0 | HYS S A SEI S D |
| UniRef90_B0TGU1 | V H F F A P E ELKA WEQES |
| UniRef90-G2KSJ8 | EYKFDAAELEHKLNNPS |
| UniRef90_W4LMI5 | E Y L F Q R S L Q A L L Y E A |
| UniRef90_D4FCX1 | K Y HYS EDELK D I L A K K N |
| UniRef90_UPI00047DA887 | RYTFDEADADALEF |
| UniRef90-R5MEE1 | K Y HFSKEEDQKMLKR |
| UniRef90-UPI00036D407F | VY R F D R T D I D |
| UniRef90- ${ }^{-} 2 \mathrm{H} 7 \mathrm{M} 8$ | HY IF D T $\square$ D I A QMRKK |
| UniRef90_UPI0002558B54 | QYHFDETDI RALFSE |
| UniRef90_C7N1Z3 | RYEFTPDELSAML |
| UniRef90-U2SQ99 | R Y VF T E E F K D K K |
| UniRef90-C5NUB0 | K Y HFSQKEIT DLLDN |
| UniRef90_A0Y9Y9 | HYQFDGDDVGKL F D |
| UniRef90_V7IDW0 | K Y VFD D T D Q A L F |
| UniRef90-D0LGQ2 | VYYQVSESELAELVA QRS |
| UniRef90-C7H0J9 | K Y Y T P EDi K Ki Ren |
| UniRef90-UPI000372868F | P Y K F D A $\square$ E CA QL F |
| UniRef90_F2JLX2 | K Y QFTK |
| UniRef90-Q21EJ8 | NYTFKRKD\D T L F GE |
| UniRef90_R5AEW3 | K Y VF S K E El A QL A L Q A |
| UniRef90-R5AN40 | TY HFDRQSLTALLDAA |
| UniRef90-K6YMQ7 | E Y S F D A DDIEES |
| UniRef90_W7DGZ5 | QYHF |
| UniRef90_UPI000345FC60 | A Y R L S P DETA A LDD DE T |
| UniRef90-H0JEW8 | QQVF D A A DIA QIFA |
| UniRef90-R5IHH5 | $\square \mathrm{Y}$ D Y TP EQV RQI LKE |
| UniRef90-B7S032 | Q Y R Y VE Q D L R I L E |
| UniRef90-B8IN76 | H Y DLDPAEVEA |
| UniRef90-W1Q157 | HYDYSVQEL |
| UniRef90_UPI0002FBDC61 |  |

UniRef90_Q67PQ0 UniRef90_G5GGA0
UniRef90_TOU6V7 UniRef90- W9V0N7 UniRef90_K1KGM5 UniRef90-J4U1T8 UniRef90_A0A016QKV5 UniRef90_R7G7S9 UniRef90-Q891S6 UniRef90_AOP6U8 UniRef90_Q12T11
UniRef90_UPI0003B3F958 UniRef90-I7ZBL1 UniRef90_W7QQG5 UniRef90-H1PVD8 UniRef90-10XV00 UniRef90_UPI0002D9D3D9 UniRef90-U2QVK7 UniRef90-U4KSH1 UniRef90-D3QZB2 UniRef90-F5TA88 UniRef90-Q7VBR5 UniRef90-B7VHF3 UniRef90-Q2SPF8 UniRef90_UPI00037AF9FB UniRef90_UPI00047EE855 UniRef90_UPI00037D0234 UniRef90_A6FGZ8 UniRef90-G3IQV9 UniRef90_UPIO00317868C UniRef90-R5QUV2 UniRef90_UPI0003F67049 UniRef90_UPIO00262CFEF UniRef90_UPI0004797102 UniRef90_A9BA44 UniRef90-B0TMX9 UniRef90_UPIO002486E23 UniRef90_UPI000364CC39 UniRef90_V9HL39 UniRef90_UPIO004278263 UniRef90-IOGPL1
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UniRef90 C3P9L3
 CRCSDEGVRSMI LSSLGREEALAII GAERGSIIDI TCHFCGQ RCNCSKNYI TDRLI TLGADDLDSLVAADGQAEVKCHFCGA QCRRCSREKALDDSLKFFAPAERRQEMMDEGGQQE V VCHWCGE CDCKAKMKRALTTLSKEERMAMIEEDHGCETCNFCNE

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| UniRef90－G5GGA0 | K Y VFKSSEL |
| UniRet90－ToU6V77 | KYHFTREELQDM |
| UniRef90－W9VON7 | RYDFTQTDIKSLFAESS |
| UniRef90－K1KGM5 | VRSFDSADVAS |
| UniRef90－J4U | AYQFDKEELT |
| UniRef90－AOAO | HYQ⿴TPAEIAGLEAQ |
| UniRef90＿R7G7S9 | RYQFSEEELRD |
| UniRef90－Q891 | K Y Y Y HEKIGE |
| UniRef90－AOP6U8 | QYAFDQVDVGALFTDNS |
| UniRef90－Q12T11 | SYSFDAl ${ }^{\text {Cl A A }}$ |
| UniRet90－UPI0003B3F | HYVVDE $\mathrm{D}^{\text {d }}$ |
| UniRef90－17ZB | E HVFTP HQA EEL |
| UniRef90－W70 | KYSFVENDLA ${ }^{\text {K }}$ |
| UniRef90＿H1PV | KYKFTREDFKD |
| UniRef90－UPI0002D9D3D9 | TYAFDSKEVDQ |
| UniRef90－U2QVK7 | KY噱SQTEITDL |
| UniRet90－U4KSH1 | GYHFNECDLEEIKRSKT |
| UniRef90－D30ZB2 | KYHFAQAEISG |
| UniRef90－F5TA888 | KYKKSDEALKN |
| UniRef90－G5H0L4 | NrDREES |
| UniRef90－ $\mathrm{B7VHF}$ | NYSFDKNDVI |
| UniRef90－Q2SPF8 | RYSFGRERIEQLFDSPT |
| UniRef90－UPI0003 | VYRYNRTQL |
| UniRef90－UP10004 |  |
| UniRef90－UP100037D0234 | KYGFS |
| UniRef90＿A6FGz8 |  |
| UniRef90 G3IQV9 UniRet90 | HYRFDKVDVENLSQKS |
| UniRef90－R5QUV2 | NYKFT |
| UniRef90－UP100031 | SY ${ }^{\text {¢ }}$ |
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| PI00 | KYQ |
| UniRef90 UP10004 | RFGP |
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| UniRef90－UPIO002486E23 | KYQFTAKEA |
| UniRet90－UPIO00364CC39 |  |
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| UniRef90－F5STL6 | KYKFNKADICEI |
| UniRef90－F5ZFZ6 | EYRFDS1 |
| UniRef90－H3KF01 | TRTYDDVDVTEL |
| UniRet90＿Q5QYA1 |  |
|  | KYKFTEKD |
| UniRef90－X0QLK3 | KYQYSVADLQA |
| UniRef90－F9ZRE |  |
| UniRef90－UPIOOO362： |  |
| UniRef90－A 7 HQ44 | VYVFAPDEL |
| UniRet90－XOR1U7 | MYRFNKDDV |
| A6W2 | KYEFTEAD |
| UniRef90－F811U0 | A Y HFTQEELETLRRGA |
| UniRef90－G9ETT9 | EY ${ }^{\text {E }}$ |
|  | VYNFSSEEL |
| UniRef90－OP10003843E41 | KYHFDPGD |
| UniRef90－K9H5U3 |  |
| UniRef90－UPIO002558DCB | TYKFDRDKVEE |
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| UniRef90－G8UU66 | KYTFDS $\mathrm{T}^{\text {d }}$ VTLLFRK |
| R5Q384 | F SRKEV |
| UniRef90－F3LG36 | （ell |
| UniRef90－UP1000384AD23 |  |
| UniRef90＿UPIO004010D19 | EYRFSKEDV |
| UniRef90 ${ }^{\text {W1TZ }}$ | KYVFTKDEL |
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| UniRef90 KoG992 | QYFFDKNA MEFKEEA |
| UniRef90＿UPI000381B723 | EYVFNRQDLTE |
| UniRet90－T02 | RYT 他 ${ }^{\text {a }}$ |
| UniRef90－UPI0004753E2A | KYEFEAAQL |
| UniRef90 K9FM11 | TYEAQCDRLTDLLA |
| UniRef90－B4WCJ5 |  |
| UniRef90－UPIOOO40580C0 UniRef90 E8U6HO | YY FDPQEFE |
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| UniRef90－UPIO0046335E7 | HYEFDP |
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UniRef90_UPIO003A52959 UniRef90-A3WP08 UniRef90_UPI00047E9EEA UniRef90_S6FCI3 UniRef90_D5RNH5 UniRef90_F9MPQ3 UniRef90_UPI000307E70B UniRef90_UPI000471E821 UniRef90_G4QND9 UniRef90_U1KJP6 UniRef90_W5WVX UniRef90_I3TG11
UniRef90-G2TC27 UniRef90_G2TC27
UniRef90_UPI0003B4DAD0 UniRef90_UPI0002D7844F UniRef90_UPI00037006DA UniRef90_R6UMP1
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UniRef90_R7G279 UniRef90_K2CBF4 UniRef90_UPI0003A98122 UniRef90_UPI000479528D UniRef90_W6A8Y4 UniRef90-K2KBQ5 UniRef90_UPI00037E9448 UniRef90_G2IDT4 UniRef90_UPI0004126B11 UniRef90_A0A024K8N8 UniRef90_U1HHK7 UniRef90_U1M9I6 UniRef90_E8LD36
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| UniRef90_UPI0003A52959 | RYDFDPSEIU ${ }^{50}$ |
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| UniRef90-A3WP08 | EYVFKDED |
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| UniRef90-S6FCl3 | HYFFNKEAI EKLLRN |
| UniRef90-D5RNH5 | GFRFERDEVQ |
| UniRef90-F9MPQ3 | HYVLQQKELAALYNKTN |
| UniRef90-UPI000307E70B | HYDIDPADVA |
| UniRef90_UPI000471E821 | E Y Q L I DELKQL |
| UniRef90-G4QND9 | E Y R F D A |
| UniRef90-U1KJP6 | NYRFKEQDIK |
| UniRef90-W5WVX7 | PYTVNDEELKVIK C R $\square$ S |
| UniRef90-I3TGI1 | SYVYDDADIA |
| UniRef90-G2TC27 | TYALSVQELDALAAEA |
| UniRef90_UPI0003B4DAD0 | T Y R F E V VEVVA |
| UniRef90-UPI0002D7844F | EFRFDRAD |
| UniRef90-UPI00037006DA | EYRFDT $\square$ DVE |
| UniRef90-R6UMP1 | KYQFS |
| UniRef90-J1A5S6 | T Y RFTPQEFLEENGES |
| UniRef90-R7G279 | KYDYTAEDVDRL |
| UniRef90-K2CBF4 | EFVFDRVDVE |
| UniRef90-UPI0003A98122 | EYHFALTDLDVLFSAA |
| UniRef90-UPI000479528D | EYRFDPDGL |
| UniRef90_W6A8Y4 | KYNIS GEEIKK\\|I |
| UniRef90-K2KBQ5 | D Y IFTAHEL |
| UniRef90-UPI00037E9448 | A Y RFSQEELTGVLN |
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| UniRef90-UPI0004126B11 | KYHFDKNDLLK $\mathrm{L}^{\text {P E N }}$ |
| UniRef90-A0A024K8N8 | AYHFKPHE |
| UniRef90-U1HHK7 | VYEFTPQE |
| UniRef90-U1M916 | EYQFNKRD\\|EN\|EN |
| UniRef90-E8LD36 | TYEYTQDEI KHLLEE |
| UniRef90-M2VZG8 | T Y Q LT P P E I E QI |
| UniRef90-R5Q930 | KYT FTREDLKELIMK |
| UniRef90-U2NNM0 | S Y K T NEEVGELLNR |
| UniRef90-L8D9M3 | DYRFNEQDVRA |
| UniRef90_UPI000364D782 | EYHFPLDRIGVLF |
| UniRef90-A3PC66 | KYLDN YEEI KLMMENQS |
| UniRef90_UPI0000E10DEF | DYVFDAMDVETI |
| UniRef90-A0Z4T1 | D Y R F V Q S |
| UniRef90_UPI0004701F32 | DFRFPRTEI |
| UniRef90_G7G570 | E Y VF NEQDIK S $\square$ F N |
| UniRef90_F7QIK8 |  |
| UniRef90_Q1YJZ3 | S Y SFDPSE |
| UniRef90-G7UPU7 | RY HFSPDQTA QLF |
| UniRef90-A6LJS3 | T Y K DK P E EVKK L Le E K N |
| UniRef90-UPI0003FD97DA | RYLFSEPDID |
| UniRef90-E3HAG7 | KYSFSKQEFENLMN |
| UniRef90-W3AGP9 | TYTFEQKEMQQLF |
| UniRef90_UPI0003B4721D | D Y RFEVNDLQULL |
| UniRef90-K2JJ84 | HY@LDPKTV |
| UniRef90-C9PPB4 | HYFFNKEAINVLKNN |
| UniRef90-K2JIY8 | A Y R Y |
| UniRef90-W3RJH4 | VYT F T PEEAD |
| UniRef90-UPI0002DCFF95 | EYHFPLTELD\LFSEPT |
| UniRef90-UPI000361EB3F | D Y RFSAADI A RLLF |
| UniRef90-B8ER55 | FRAFDPSD |
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| UniRef90_UPI000465A84C | SYDFDPSEFA |
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| UniRef90-N8Q8E2 | RYSFTAEEAFGLLFGKH |
| UniRef90-A6WVX3 | RYEFDPAEF |
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| UniRef90-M3J9E7 | TYEFDPAQFAK |
| UniRef90_UPI00035C51E6 | QYAFTPDD |
| UniRef90-J1Q090 | S Y HFS A D E L Q $\square$ H D Q |
| UniRef90-A3VGC5 | HYEFDPK |
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| UniRef90-Q47CF3 | EYRFTAEDVAA |
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| UniRef90-M4R3N8 | QYFFDETAI E ELRKART |
| UniRef90-A0A017SZZ8 | AY QVAPGALK TLLLTES |
| UniRef90-J7QUM9 | LRSFDPTDFD |
| UniRef90-K2N7X4 | EYDFDPAEFD |
| UniRef90-Q6MUK0 | K Y Q $\square$ Q $\square$ Q D V L T L L N |
| UniRef90-Z9JIB4 | E Y R F S Y K L T S L F |
| UniRef90_Q11MG3 | E Y LF D PKEFDG |
| UniRef90-B6IUN2 | EYGFDDAALDAVYA |
| UniRef90-UPI00037928FD | HMRFHQKDVDALFAE |
| UniRef90-V6F3S8 | TYAFGDDDLDRV |
| UniRef90-F6D9A1 | Y ERFNAEDIN QLFKPA |
| UniRef90-K8DXN3 |  |
| UniRef90 ${ }^{-} \mathrm{R5VXW} 7$ | LS T D D L |
| UniRef90-D0NW35 | VHHFSADELDGLDESMS |
| UniRef90-R5QQ60 | KYVFDKGE |
| UniRef90-UPI00035C4E7A | DWNFDPAEI |
| UniRef90-M9RI27 | HYVFHPNTL |
| UniRef90-JOYND0 | TYRF ELQEFSEEKT |
| UniRef90-M1VLC0 | YYELSSDETRALLRDA |
| UniRef90-B4R8Y1 | VY AVEPASLE |
| UniRef90-W1YM23 | KYHFTREELQDMFA |
| UniRef90 D2UET0 | RYDFPLAEFGVLFA |



| UniRef90 C8S255 | $\text { HYEFDPKT }{ }^{50}$ |
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| UniRef90_K3X3Z3 |  |
| UniRef90-D5QJH9 | AFHFQREEV |
| UniRef90-B9R448 | A Y EFDR |
| UniRef90-K6G652 | HYNLSPETV |
| UniRef90-V4NZ39 | T Y |
| UniRef90-H9U9P6 | T Y T F GPEEIKVVIEE |
| UniRef90_V8A6M4 | GFRFDRTE |
| UniRef90_W0DES9 | VYRFDRESL |
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| UniRef90_UPI00046FCA82 | Q Y K T V Q L Q E |
| UniRef90_U7FT32 | SYEFD |
| UniRef90-W6A689 | QYNDK P E Q L K T L N |
| UniRef90_UPIO0020DA1F2 | RYFFTADELRE\\|VDE |
| UniRef90-R7IXX6 |  |
| UniRef90-UPI0003AAE449 | K Y K FERKHFLEVL |
| UniRef90_A0A059EBD9 | H Y D $\square$ A $\square$ E DV |
| UniRef90-UPI00035EED6C | TFDFTGEE |
| UniRef90_Q1JZD8 | S Y QFTPAELS |
| UniRef90-W6KCl3 | TYVMDGTPLKSLLE |
| UniRef90-FOYCN6 | $\square Y$ SLLGKDEIAA HFAR |
| UniRef90-Q5UF32 | KYHRDA |
| UniRef90-B4UB43 | RYVIGEAELR D $\square$ |
| UniRef90_UPI00047D6AFF | TYSFPMAEL |
| UniRef90-D3LUW5 | A Y V LT R K ELATL |
| UniRef90_A4CEU0 | D Y TFNEEEVRSL |
| UniRef90-E3DPG6 |  |
| UniRef90_UPIO003663409 | H Y T L S |
| UniRef90-H0HPQ4 | A Y EFKPAEFSA |
| UniRef90-U2EKA4 | K Y NFNKDELRRFI |
| UniRef90-F7S079 | D Y ViY T RFDI DA L |
| UniRef90-R4UGZ5 | KYLISS DDIK |
| UniRef90-K0D8W7 | R Y F F T P DELREI $\square$ S E |
| UniRef90_G8XIB3 | NYHFNK ${ }^{\text {d }}$ |
| UniRef90-R6HQV4 | VYSFDK GEL |
| UniRef90-S9SDY3 | HYALDPATL |
| UniRef90-E6YG12 | $\square Y$ HFKPEEL |
| UniRef90_Q9X1B4 | R Y VF |
| UniRef90_S9TQ48 | D HVVALTEL |
| UniRef90_UPI000225FEEE | DFCFDRKEV |
| UniRef90_A9SDY9 | VI QFKEADLQEVLQS S |
| UniRef90_R6B9T1 | KYT $\square$ ARDTL S K WF ME |
| UniRef90-N6Y6Q6 | TYRFDADDI DALLFRPPT |
| UniRef90_UPI000364E5EC | $\square \mathrm{Y}$ R F D K Q AV S DI F A |
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| UniRef90_UPIO00248943B | RYS F PLVDFA |
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| UniRef90-H1CYU7 | K Y E $\square$ S R ETLVK WF NE |
| UniRef90-E1ZPN9 | TYAFEEEEV |
| UniRef90-E5V3T8 | KYHFTKEEITELLLEN |
| UniRef90_Q944P3 | TYNFSQGEVDAYLD |
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| UniRef90-E2NTR8 | T Y R F D G D EV |
| UniRef90-E4L8N5 | NYSFTKNDI L N L IK |
| UniRef90_C7RJP5 | EYRFDEAAVDELFGGSS |
| UniRef90_A0A024GG44 | RYYFSRQQI EELLLAE |
| UniRef90-R5T6D9 | $\square \mathrm{RKWSRET}$ L Q HWF QK |
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| UniRef90-F4LQ60 | $\square \mathrm{Y}$ R I P K S S |
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| UniRef90-M1Z6N6 | R Y V DP VA K VEEVI K |
| UniRef90-UPI000382C6AD | K R I F |
| UniRef90-A9HFT1 | S FRFPRTEI |
| UniRef90-T0PJ47 | A Y FVDP A QVQA $\square$ |
| UniRef90-E8T609 | EYHFS |
| UniRef90_A6GAA7 | T T LVS A P Q L R A L A Q R |
| UniRef90_M1NVC4 | TYSFKPQE |
| UniRef90-A1UU88 | $\square$ HHFKPQELS |
| UniRef90_N6Y5S1 | S Y R F D A A DVDALDF |
| UniRef90_UPI00047DBE1C | D F R F R E EV |
| UniRef90-N6VGC7 | A Y Y FKPQEFSE |
| UniRef90_V9GB49 | K Y R F D H V Dil M R L V Q |
| UniRef90-H0PZI6 | EYRFEPEEI DDLFSN |
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| UniRef90-D1AUY2 | K Y R F E E |
| UniRef90-Q47VD1 | T Y D F D E L S L K S F $\square$ S K |
| UniRef90-K9RWL9 |  |
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| UniRef90-A5FVE6 | D FRFPRGEIA A |
| UniRef90-K5Z251 | DFCFARADV |
| UniRef90-F4GHH5 | AYDFTKEELES |
| UniRef90_UPI0002191B52 | K 1 QF DEAELS G\\|IA |
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| UniRef90_M4BM72 | ! H H F S A D E L K N [V I K S L S |


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