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 AK S F WQP TVV G E G D Y A S Y V H F G GA S T P A L V V A G P Y



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| UniRef90-A2QL84 | T VT K T D Y G S L V G S |
| UniRef90_F8Q4B7 | DVTRTTYGSYQAKIE |
| UniRef90-G4T7D6 | S T S R T K L N S $\square$ T A N |
| UniRef90_W6QFQ6 |  |
| UniRef90_UPI000455CDD5 | SVVD S S A T S SLT |
| UniRef90-R7SMX4 | GTMTQSRS |
| UniRef90-B0DSN5 | S GDLLVATSALT |
| UniRef90-R7SKU3 | SVQSSGTGRLTQNANVR |
| UniRef90-S7PUE9 | LADVQAASSLSS |
| UniRef90-G2R540 | PHRADDDGHWLA Q $\square$ A Y |
| UniRef90_A7EBU5 | T TEKTDYDSLIG |
| UniRef90-G1XTB0 | D T DLLTRHGT |
| UniRef90_UPI0004449F9D |  |
| UniRef90-W9HIF2 | QVT K S K |
| UniRef90-M4G807 | S FTADPTGFWKTTV |
| UniRef90-UPI00044148E0 | A A Q 1 S A G GAFVARLE |
| UniRef90-E4ZIB0 | PTEKTAYGSL |
| UniRef90-W3WIS9 | G IE E S D D GRRTS HI E Y $^{\text {a }}$ |
| UniRef90-W3X4S8 | RANRTTYGSYDAEIT |
| UniRef90-UPI000363D140 | RTARTGSGSLRS |
| UniRef90-R7SKT8 | AMRSDGRGVLT GN |
| UniRef90-UPIO004413654 | KVSQDALGGAWS GT |
| UniRef90-UPI00036C4468 | P ATVTNAGSLR S N |
| UniRef90-UPI0004624242 | $R$ VQGASS GVLEGKLEV |
| UniRef90-K1WTM5 | EVSRTGYGSLVGT |
| UniRef90-UPI000444A58A | DNDASAAS |
| UniRef90-G4T7H4 | A LS R NTLGGSLSGTVKY |
| UniRef90_Q2GX66 | PTTQTNHSTLRATI |
| UniRef90-E3Q7G5 | ElIS R D G A F T AKIE |
| UniRef90-UPI0004416D02 | PFSSAA |
| UniRef90-W4K1S5 | D P D M D A $\square$ R $\mathrm{L}^{\text {T }}$ S |
| UniRef90-A0A010SHV6 | SNAQWKNGRLQAELVF |
| UniRef90-H1VMZ6 | E\\|LSRDGNTFTARID |
| UniRef90-D8PM67 | QSTRTAWGALTATLS |
| UniRef90-UPI00047AF245 | PVTRTAAGTLRGRLD |
| UniRef90-UPI0004413E17 | RLRREAWGALSAR |
| UniRef90-E5A3W5 |  |
| UniRef90-UPI000462360D | EATTSARG |
| UniRef90-K2SSA3 | A FNQSS $\square$ G $N$ V $A$ |
| UniRef90-D7C0U2 | K V K P T A S G L L G TV |
| UniRef90-V2WA71 |  |
| UniRef90-M2ZIV7 | ATTMTEYGSL |
| UniRef90-T0M4J2 | D TKPTPRGSLIGR $\square$ |
| UniRef90-D9Y1Y0 | RTQVSRAGSLV |
| UniRef90-L8FN32 | A $\square \mathrm{ETNST}$ TS W |
| UniRef90-J9NPU8 |  |
| UniRef90-S3D6L9 | R VNRTRYGSLLG |
| UniRef90-UPI00036D8C97 | PTRIT LSGSVISTVTL |
| UniRef90-UPI000440E82E |  |
| UniRef90-R8BTZ8 | AATKTAYGSYTATI |
| UniRef90-C9SLP7 | A $\square_{\text {E }} \mathrm{SRNGN}$ |
| UniRef90-W3WG52 | S FTK S S Y G S L $\square$ A T I |
| UniRef90-M5C8P4 | KVSKTPT GTLKGSI |
| UniRef90-Q82BE9 | RTRATASGSLRA |
| UniRef90 ${ }^{-}$M5BVH6 |  |
| UniRef90-UPI0002630587 | ATTRTPSGSFVAT |
| UniRef90-UPIO004416840 | R VQKNYWGALQAR |
| UniRef90-B2AT20 | NYTVNEH G N WVV VTID Y K |
| UniRef90-S7Q690 | EVKASVPGVFEATLE |
| UniRef90-M3ASL6 | S FNQSRSGVVKA |
| UniRef90-S2Z4H5 | RTRGTSSGSLRGAQSL |
| UniRef90_UPI0004415E99 | LATRTSYGSLVAR |


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UniRef90_E2LUS4
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UniRef90-B5HW58 UniRef90_UPIO004663686 UniRef90_L7FBW0 UniRef90-J9NQD2 UniRef90_K5W3E9 UniRef90-RODOS6 UniRef90-FOKCT1 UniRef90_G4TGK5 UniRef90-UPI0001F2B157 UniRef90-UPIO004449AFO UniRef90 V6L1D1 UniRef90-UPI00035EE0DB UniRef90-X8J6L6 UniRef90_V2X6G9 UniRef90-W5W591 UniRef90-G0S1Q5 UniRef90-V2Y5W6 UniRef90_14WRM0
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UniRef90_J2L9J2 UniRef90_FOXST5
UniRef90-W2EKI7 UniRef90-UPIO003A8069B UniRef90_V4PY42 UniRef90-E2M2A8 UniRef90_D8HTL5 UniRef90 G8SFA1 UniRef90_L7FGV1 UniRef90_R4LJAO UniRef90 UPIO00379F04B UniRef90-UPI0003803D01 UniRef90_UPI00047728A6 UniRef90 C7QBZ5 UniRef90-UPI0003776329 UniRef90-S8A8J5 UniRef90_V4QHC2 UniRef90 C7ZKF5 UniRef90-V4QTW1 UniRef90_G8SDJ0
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UniRef90_K6V5F0
UniRef90_UPIOO047C1931 UniRef90-UPI000456024F UniRef90-UPI0003670678 UniRef90-M2W7S2 UniRef90_UPI0003B41B8C UniRef90_W3WZA6 UniRef90-K9DBW4 UniRef90-R4LI80 UniRef90-S9PQE0 UniRef90 UPI0003AD4BA8 UniRef90-D8HTR7 UniRef90-M2XIP7 UniRef90-R4LQU9 UniRef90-UPI0004560B44 UniRef90-M2W2P6 UniRef90_F4RVC4 UniRef90-Q5BGY6 UniRef90-E3L081 UniRef90-V5ESD8 UniRef90_U1PLQ7 UniRef90 F3P2R2 UniRef90_R9PKP9 UniRef90_J3PMV1 UniRef90_I2FY29

1
ETAAAFWAPVI|PGADDPFRNYWGFGTNQT LLADEAEGARYWRRDG

40 MLVRGPLLR RNEAYNYWVLDPVSGP FASGPGNYTS PSKSLVVVEAGYLI R ETAGNFWAPVLAPQESDSANFYOFGTNSSVLVGPY RETAYHFWAPALDN K K T A GS $\square$ WVY HVGPD S $\quad$ Y D MAPD $\square P A V W V L G P Y F L R$ VGDKATAETFWRQDTAAGPVLVRGTHLLR RSAAHVFWSTPLNNDPAEAG NNTVLVHGPYLVR
 NNYWQFGSNETVLVGGPYLVR
FADDAAS $\square R \square W P Y D T P S G S V L V Y G P G L L R$
LADDATADTFWRQDTAAGPVLVRGPAILR ETVKTFWSPTIPSDSDPFANFWSFGTNQSILVGGPYLVR DTAGNFWAPVLAPQGKDSANFFQFGTNSTVLVGGPYLVR RQTAYTFWTADT FTDDPGSLRLFPQDTPTGSPVVVGPYLVVR VLLF ADDETA L R R WP YETPAGPLLVVYGPALK R KHTALS F WNVHLSSANTTV YDRAPDVPSI FVFGPYLVR
 ETAFK $\square$ HAPMLQNTSDPFATFWN $\square G S N D T V V V G G P Y / V / R$
 ADTATAKTFWRQDTAAGPVLVRGTHLLR APRTWQPRVSHTSGNGKYDDSPRT, GSLLVFGPYLVR NAETFFAPVIATDSSSSPFGWSDGTNETVL AGGPYLVR
RNA V VY Y NY WV LADKDSAKSFWRLDTVSGPVLVRGTHLL$R$ TAETFYAPADTSDDNPYSKFWS FGTNETVLVVAGPYLVVR PLIGDDQATQRVWRQDTPKGSVLMIGSHLLR
TA WRFWAPR DGDNSFDVAGSSRVFILGPYLVR TSYQLWNPTVTDSSEPFGAYAGYGSTESVLVGGPYFVR
 I GDENESARFWKDSTEAGDVLARGPTLI R
 TAWRFWAP GANGKPQSSPLEVFKSDRLGILGPYLVR ANGKAQSSPWDADSAA GPVVVRGTSLVRR VGDKATAETFWRQDTASGPVLVRGTHLLR LAEDEVAKTFWRQDTPDGPVLERSNALI R
 TAWRGWAP LADQTTADSFWRVDSDNGPVLARGPALVR I A DEDAAAGFWRV DDVLVRGPQLVR VI GDREGVAGTWQLDAGGGQVLVLGPELAR LGTDDTAGSFWRADTAGGPVLVRGTSLLR LTDRDAVATTWQLDTAADKVLVTGPDLAR
 GSYGTTESNPDAVIVKAGYLVR TAQEFWRQDTTEGAII ERSRALI R $\square$ IDQSTADTFWKS

R A A Y G Q $\square$ WH P D $\square$ S
VGGSIRVAGVDV足 $T T N K T V F V D G A Q L V R$ ATASAGSLDEULGTGDRILVGGAYHIAA LADNKHSLQFWSQNTPAGTVLQLTPAMVR

RDSAYRYWVPS TGKTSA
LADEQTSMRFWTQDTGAGRALQLTPALVR LADKPTAETFWRQDTATGPVLVRGTHLLR LADSDTASTFWTAHTARGPVLVRGAQLI R LA DATAATFWPVGETGGLLVRGPDLVR
LVFATE GQAHLLYWRQYAQNETVVVVRGSYLL R LGTDATAAAFWRADTAAGPVLVRGSDLLR

ETAGQVWNPILDSNPSTGV
RDKAHLFWVPALTADPLAP
A GEVWNP ILVQAD
RTTAQTTWLLDGTRNGK L RQSARTTWQLE



## UniRef90_K5WW10 UniRef90-Q1NEH44 4 , UniRef90 UniRef90-W6PYZ9 UniRef90-H2K3F5 UniRef90-L8WWS5 UniRef90-C7ZEJ8 UniRef90-G8A534 UniRef90 W7S927 UniRef90 Q2U6P1 UniRef90-UP1000369CEED UniRef90-UPIO00440D75E

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UniRef90-J9NQD2 UniRef90-K5W3E9
UniRef90-RODOS6
UniRet90 FOKCT1
UniRef90-G4TGK5 UniRef90-UPIO001F2B157 UniRef90-UPIo004449AF0 UniRef90 V6L1D1
UniRef90-X8J6L6
UniRef90-V2X6G9
UniRef90-W5W591
UniRef90-Gos 105
UniRef90-V2Y5W6
UniRef90-14WRMO
UniRef90_U7Q4D2
UniRef90-UPIO00440EB6B
UniRef90-S159Y2
UniRef90-UPI00046E57DE
UniRef90-F8EUX8
UniRef90-E8RLZ7
UniRef90-C8WB58
UniRef90-J2L9J2
UniRef90-FOXST5
UniRef90-W2EKI7
UniRef90-UPIO003A8069B
UniRef90-V4PY42
UniRef90-Е2М2А8
UniRef90-D8HTL5
UniRef90-G8SFA1
UniRef90-L7FGV1
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UniRef90-S3CBR8
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UniRef90-V4QHC2
UniRef90-C7ZKF5
UniRef90-V4QTW1
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UniRef90-R4L180
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UniRef90-UPIO003AD4BA8
UniRef90-D8HTR7
UniRef90-M2XIP7
UniRef90-R4LQU9
UniRef90-UPIOOO4560B44
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UniRef90-F4RVC4
UniRef90-Q5BGY6
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UniRet90-F3P2R2
UniRef90-R9PKP9
UniRef90_J3PMV1
UniRef90_12FY29
 DASVRGGTLALTGDTAQDSPLEI WAPAAVRAVTWNGARV TANVTETSLDVTGDLNATSPLWIVGAPKNLKTLTFNGQEV HAELRGSEVHLTGDITERTGMEVWG PRGTDTLVWNGRKL EARLSEGELALRGDLEKESMLTVIDAELGAVRRVFWNGFPV SASYDERKLSVYGDLDQETQVTVF APESLKTVAWNDKRV TAATAGHTLALTGDTDTDGSVEVFAA

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TA A LSEGHLALRGDLNQSTYLTVVAPERVTSVSWNGDDV
TARSIGSFLALTGDTAAPAGLEVWG PRGADAVTWNGRAV
SASISDGELALRGDLNVTVMLSVI APKSVSSISWNGQQV
SAKVEGSDMHICGDLNATSALLDIGGADEPLGKLTFNGKQV
GVTLDGATAHLTGDTVEGTGMEVWGPRGMGGITWNGRPL
SAELRDATVRELTGDVGIETGVEVWGAPRGVAEVVWNGEPV
NATLLDGVLALHGDUNATTTLDVV APSSVKRVIWNGRTV
SASTRDNKLELQGDTDKASDIEVFAPTSVNEIKWNGEKV NATLDDGHLALEGDVEGDTMLQLVGLPQGLNRITWNGDDV NATLTEGDLELRGDLKEGVMLGVVGPRGVRGVRWNGMEV HATVRGATVDTGDTETATPLEVWGP GODSVRWNGQSV NATLIGSTLALTGDDKGTTDLELVPFQVKFATFNRKPV EAAFSGTQLDLHGDFNDTTRLTVI APGKVTSVTWNGAPV SASDSGNKLNURADFNATTDVEVGGPETVTKVTDNSADV

VELEDSIIALRGDLNDTASLWVLG


| UniRef90_K5WW10 | T ADSATEGA\|I T A QLE L |
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| UniRef90-Q1NEH4 | ATAATPAGSI A A |
| UniRef90-W3WG96 | EFSVDENGALSSNLTY |
| UniRef90-W6PYZ9 |  |
| UniRef90-H2K3F5 | P T R A T L S G S L L T |
| UniRef90-L8WWS5 | D T |
| UniRef90-C7ZEJ8 | K IT S Q K GN |
| UniRef90_G8A534 | ALEEETD ${ }^{\text {L }}$ GSLRGSVTLL |
| UniRef90-W7S927 | RTRTTSSGSRTGTLPVV |
| UniRef90-Q2U6P1 | SVKSAK G GVIT |
| UniRef90-UPI000369CEED | ATSVSRAHSL T A T |
| UniRef90-UPI000440D75E | TVSASE GF |
| UniRef90-S8DTS6 | KTSRLNNGRLDTEVSVE |
| UniRef90_UPI00035C2077 | ETVATGADS |
| UniRef90-UPIO003A71135 | PARRTTSSSLLAT |
| UniRef90-E2LUS4 | S F 1 P S |
| UniRef90- ${ }^{\text {- }} 8$ J311 | DTSASTSGV |
| UniRef90-M2YMG9 |  |
| UniRef90-B5HW58 | RTSATPMGSLRA |
| UniRef90_UPI0004663686 |  |
| UniRef90-L7FBW0 | RTS A T D S G S L R A ERPL |
| UniRef90_J9NQD2 | QVT K S K Y G S FiG T |
| UniRef90-K5W3E9 | HVQK S N I G T |
| UniRef90-R0D0S6 | A TKPTASGSLLAERPL |
| UniRef90-FOKCT1 | K A L Q S Y L S |
| UniRef90_G4TGK5 |  |
| UniRef90_UPI0001F2B157 | W LDS T Y $\square$ GS WQGNPA $\square$ Q |
| UniRef90_UPI0004449AF0 | ESLR |
| UniRef90-V6L1D1 | HTTASASGSRTGT |
| UniRef90-UPI00035EE0DB | SVT H SVS GS L 1 A R RPLL |
| UniRef90-X8J6L6 | HMSRSLT G T L K G S $\square$ DV |
| UniRef90-V2X6G9 | S LD A S |
| UniRef90-W5W591 | QGQRTPSGTLTAKP |
| UniRef90-G0S1Q5 | S HS $\square$ NELLGNW |
| UniRef90-V2Y5W6 | S L |
| UniRef90_14WRM0 | A ATHTAS GSLAVTLPV |
| UniRef90-U7Q4D2 | PATRTPYGSYRAA IS |
| UniRef90_UPIO00440EB6B | KAKKNAFGAWS |
| UniRef90-S1S9Y2 |  |
| UniRef90-UPI00046E57DE | A T T R T Q S G VTA T A SL |
| UniRef90-F8EUX8 | SFSRSMNGSLDAKDTL |
| UniRef90-E8RLZ7 | AVTA QNDGSL |
| UniRef90_C8WB58 | AFSRNLNGNFIAK |
| UniRef90-J2L9J2 | T T K A T A $\square$ GS $\square$ A A |
| UniRef90_FOXST5 | TAERTAYGAYRAKI |
| UniRef90-W2EKI7 | PVSRTPSGSLLGRV |
| UniRef90-UPI0003A8069B | GALATDTGSLTGKIPV |
| UniRef90_V4PY42 | QFEVMEGALWT |
| UniRef90-E2M2A8 |  |
| UniRef90-D8HTL5 | P VK P T S S G S VT G |
| UniRef90_G8SFA1 | RTRSAGPGSFTAA! |
| UniRef90_L7FGV1 | T V T |
| UniRef90-R4LJA0 | A M R R |
| UniRef90-S3CBR8 | RATRTPYGSYTA |
| UniRef90-UPI000379F04B | AVRPSAGGGLTA |
| UniRef90-UPI0003803D01 | RAERDASGALVAR |
| UniRef90-UPI00047728A6 | STRTSPSGSL |
| UniRef90-C7QBZ5 | HAKGSATGSLVGTVS |
| UniRef90-UPI0003776329 | SAQRDAAGALVA |
| UniRef90-S8A8J5 | DTQPATE |
| UniRef90-V4QHC2 | ALVPPS DGSVSA QP |
| UniRef90-C7ZKF5 | S CLV YQGHFIA |
| UniRef90-V4QTW1 | T LTPTMKS G GWIS A P |
| UniRef90-G8SDJ0 | A ATVSRSGPLTA |
| UniRef90-F2T9U0 | V HKT T S |
| UniRef90-K6V5F0 | PA ${ }^{\text {a }}$ RDAFGALVA |
| UniRef90-UPI00047C1931 | $A T A V G A A G Q L V G$ |
| UniRef90-UPI000456024F | GLQTTDLGVLRGS $\square$ |
| UniRef90-UPI0003670678 | ALAPQPDGSIKA |
| UniRef90-M2W7S2 |  |
| UniRef90_UPI0003B41B8C | A T T T D A A G A L VA S V |
| UniRef90-W3WZA6 | P F |
| UniRef90-K9DBW4 | A LT P Q LD G S VR A |
| UniRef90-R4LI80 | R T |
| UniRef90-S9PQE0 | T WS ETEYG |
| UniRef90-UPI0003AD4BA8 | HARRTGSGTLMAR |
| UniRef90-D8HTR7 | PARPTASGSLLA |
| UniRef90-M2XIP7 | K I I K T N S Y S YVA K V |
| UniRef90-R4LQU9 |  |
| UniRef90-UPI0004560B44 | G WR |
| UniRef90-M2W2P6 | MLSRTGCGGLK T S $\square$ |
| UniRef90-F4RVC4 | RV $\mathrm{V}^{\text {K S R Q GF L }}$ |
| UniRef90_Q5BGY6 | R T K T T R WGSLTA Q 1 D |
| UniRef90-E3L081 |  |
| UniRef90-V5ESD8 | D A Q A S N A W |
| UniRef90-U1PLQ7 | NPT SATGS |
| UniRef90-F3P2R2 | P |
| UniRef90-R9PKP9 | ETSPQDDNGW |
| UniRef90-J3PMV1 |  |
| UniRef90_12FY29 | E A K |



