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NTDB id 1177 A1552VC RS01165 WP 000422572.1	0
NTDB id 1203 PSJM300 01605 AFN76401.1	0
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	0
NTDB id 55578 HALHA RS08770 WP 015327442.1	.....	0
NTDB id 1307 DR RS10055 WP 010888596.1	.....	0
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	0
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	0
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	0
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	0
NTDB id 1283 ACE17W RS02630 WP 010947729.1	0
NTDB id 1259 GCO85 RS10305 WP 010947729.1	0
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NTDB id 1194 PAKAF RS01995 WP 003084552.1	0
NTDB id 1020 ACIAD RS04210 WP 011182164.1	0
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	0
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	0
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	0
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	.....MESR.....MDKIFQAYIDNEISLDE	21
NTDB id 1410 SGL RS13950 WP 010873519.1	MTSSSSSSKKSRAVALRNYFSPFGNKLVAAGGHVDAEQLRQALVQVKKKTGRSLPEELKAVTGRELSPELLRQYKKNQLF..E	78
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	0
NTDB id 1203 PSJM300 01605 AFN76401.1	0
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1	0
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	ICTKFNITSWDFFKLANFCNLHFVLDLDEDNDFIYEGIPFSLLLKFKFLLIKNNDGFM...IIRSKPCSLELLE.....	92
NTDB id 1410 SGL RS13950 WP 010873519.1	LKVLYGVDSVDP..EVAP.....IATQQMAELIGRFFPLDTCRRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRI	150
consensus		

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NTDB id 1081 FDQ49 RS05335 WP 006581387.1	0
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	.QVKTFMICEKIDTAIADELKIAKILNQIRIQEEIKRLSIKLRLEWQENHKKR.....	143
NTDB id 1410 SGL RS13950 WP 010873519.1	LRVKGFEFLRRLVV...TQDDF.....NQLLEQYYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLGEDK	216
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	56
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NTDB id 1185 GTF74 RS11940 WP 000350195.1	57
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NTDB id 1040 HON27 RS13360 WP 000355489.1	57
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	57
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1DDQSCISQIFDFLLHEILSFHASDITHEARNDDALIRFRVDCILRE..FAIFEKDIYEALVEHVKFLAC	210
NTDB id 1410 SGL RS13950 WP 010873519.1	EDVDNALDSNDANQAPVINLVNKLAKALQEGTSDIHEVEPQEETLRIRFRKDCVILNQ.AFDPLPKITPAVVARFKIMAD	295
consensus	*** *!*!!!!!! *!!*!!!!!! *!!!!!!*!!!!!! *!!!!!!*!!!!!! *!!!!!!*!!!!!!	

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MEYAMTF¹FAETGHL²CMATL³HANNANQAL⁴ERIT⁵HLV⁶PK⁷QR⁸EQFL⁹LLD¹⁰LSLN¹¹LK¹²GVIA¹³QQL¹⁴LR¹⁵DKN¹⁶... 271
 MDHAV¹⁷AFAETGHL¹⁸CLATL¹⁹HANNANQAL²⁰DRI²¹INFF²²PADR²³QNV²⁴WMD²⁵LSLN²⁶LK²⁷AVIA²⁸QQL²⁹VPT³⁰PD³¹... 273
 MDYAL³²AFAETGHL³³VFATL³⁴HANNANQTL³⁵ERIH³⁶FFD³⁷ADR³⁸HQQ³⁹IFMD⁴⁰LSLN⁴¹LK⁴²AVIS⁴³QQL⁴⁴IP⁴⁵THD⁴⁶... 274
 ISTAT⁴⁷TAAETGHL⁴⁸VLATL⁴⁹HNTNNA⁵⁰AETID⁵¹RIIN⁵²VFP⁵³PY⁵⁴Q⁵⁵Q⁵⁶Q⁵⁷IR⁵⁸QL⁵⁹SMNL⁶⁰LK⁶¹GVIA⁶²QQL⁶³LPT⁶⁴VD⁶⁵... 271
 IKA⁶⁶AVTAAETGHL⁶⁷VMTGL⁶⁸THTNSA⁶⁹PES⁷⁰IDR⁷¹IV⁷²DVFP⁷³EE⁷⁴Q⁷⁵Q⁷⁶Q⁷⁷IR⁷⁸VQL⁷⁹ANL⁸⁰VAV⁸¹MT⁸²QQL⁸³LP⁸⁴AD⁸⁵... 277
 IGLAL⁸⁶TAAETGHL⁸⁷VFGTL⁸⁸HTTGA⁸⁹AKT⁹⁰V⁹¹DRI⁹²VDV⁹³FPAGE⁹⁴KE⁹⁵MVR⁹⁶SML⁹⁷SESL⁹⁸TAV⁹⁹IS¹⁰⁰QNL¹⁰¹LK¹⁰²THD¹⁰³... 273
 IGLAL¹⁰⁴TAAETGHL¹⁰⁵VFGTL¹⁰⁶HTTGA¹⁰⁷AKT¹⁰⁸V¹⁰⁹DRI¹¹⁰VDV¹¹¹FPAGE¹¹²KE¹¹³MVR¹¹⁴SML¹¹⁵SESL¹¹⁶TAV¹¹⁷IS¹¹⁸QNL¹¹⁹LK¹²⁰THD¹²¹... 273
 ISLAL¹²²TAAETGHL¹²³VFGTL¹²⁴HTSAA¹²⁵AKT¹²⁶IDR¹²⁷IV¹²⁸DVFP¹²⁹GS¹³⁰DK¹³¹MVR¹³²SML¹³³SESL¹³⁴RA¹³⁵VI¹³⁶AQ¹³⁷LL¹³⁸KR¹³⁹.V¹⁴⁰... 272
 ISLAL¹⁴¹TAAETGHL¹⁴²VFGTL¹⁴³HTSAA¹⁴⁴AKT¹⁴⁵IDR¹⁴⁶IV¹⁴⁷DVFP¹⁴⁸GS¹⁴⁹DK¹⁵⁰MVR¹⁵¹SML¹⁵²SESL¹⁵³RA¹⁵⁴VI¹⁵⁵AQ¹⁵⁶LL¹⁵⁷KR¹⁵⁸.V¹⁵⁹... 272
 IRLAM¹⁶⁰TAAETGHL¹⁶¹VFGTL¹⁶²HNTNSA¹⁶³TKT¹⁶⁴IN¹⁶⁵RI¹⁶⁶IDV¹⁶⁷FPAA¹⁶⁸EES¹⁶⁹MVR¹⁷⁰SML¹⁷¹SESL¹⁷²QAV¹⁷³VAA¹⁷⁴QS¹⁷⁵LL¹⁷⁶KK¹⁷⁷.N¹⁷⁸... 272
 IRLAM¹⁷⁹TAAETGHL¹⁸⁰VFGTL¹⁸¹HNTNSA¹⁸²TKT¹⁸³IN¹⁸⁴RI¹⁸⁵IDV¹⁸⁶FPAA¹⁸⁷EES¹⁸⁸MVR¹⁸⁹SML¹⁹⁰SESL¹⁹¹QAV¹⁹²VAA¹⁹³QS¹⁹⁴LL¹⁹⁵KK¹⁹⁶.N¹⁹⁷... 272
 IRLAL¹⁹⁸TAAETGHL¹⁹⁹VFGTL²⁰⁰HNTNSA²⁰¹AKT²⁰²IDR²⁰³V²⁰⁴VDV²⁰⁵FPAA²⁰⁶EES²⁰⁷MVR²⁰⁸SML²⁰⁹SESL²¹⁰QAV²¹¹IS²¹²QT²¹³LL²¹⁴KK²¹⁵.V²¹⁶... 272
 IRLAL²¹⁷TAAETGHL²¹⁸VFGTL²¹⁹HNTNSA²²⁰AKT²²¹IDR²²²V²²³VDV²²⁴FPAA²²⁵EES²²⁶MVR²²⁷SML²²⁸SESL²²⁹QAV²³⁰IS²³¹QT²³²LL²³³KK²³⁴.I²³⁵... 272
 IRLAL²³⁶TAAETGHL²³⁷VFGTL²³⁸HNTNSA²³⁹AKT²⁴⁰IDR²⁴¹IV²⁴²DVFP²⁴³AA²⁴⁴EES²⁴⁵MVR²⁴⁶SML²⁴⁷SESL²⁴⁸QAV²⁴⁹IS²⁵⁰QT²⁵¹LL²⁵²KK²⁵³.E²⁵⁴... 272
 IRLAL²⁵⁵TAAETGHL²⁵⁶VFGTL²⁵⁷HNTNSA²⁵⁸AKT²⁵⁹IDR²⁶⁰V²⁶¹VDV²⁶²FPAA²⁶³EES²⁶⁴MVR²⁶⁵SML²⁶⁶SESL²⁶⁷QAV²⁶⁸IS²⁶⁹QT²⁷⁰LL²⁷¹KK²⁷².N²⁷³... 272
 IRLAL²⁷⁴TAAETGHL²⁷⁵VFGTL²⁷⁶HNTNSA²⁷⁷AKT²⁷⁸IDR²⁷⁹IV²⁸⁰DVFP²⁸¹AA²⁸²EES²⁸³MVR²⁸⁴SML²⁸⁵SESL²⁸⁶QAV²⁸⁷IS²⁸⁸QT²⁸⁹LL²⁹⁰KK²⁹¹.N²⁹²... 272
 LDI²⁹³TAL²⁹⁴KA²⁹⁵SL²⁹⁶TGHL²⁹⁷LL²⁹⁸SL²⁹⁹TL³⁰⁰HT³⁰¹ND³⁰²AL³⁰³SL³⁰⁴TID³⁰⁵RL³⁰⁶LD³⁰⁷MQA³⁰⁸.....K³⁰⁹SYL³¹⁰IAS³¹¹ASL³¹²SV³¹³IA³¹⁴QRL³¹⁵VR³¹⁶KL³¹⁷CP³¹⁸WCK³¹⁹QK³²⁰SK³²¹KHY³²²IEFE³²³.. 438
 AK³²⁴TAL³²⁵EA³²⁶AL³²⁷TGHL³²⁸VLT³²⁹TL³³⁰HT³³¹ND³³²AA³³³GA³³⁴IA³³⁵RL³³⁶DEM³³⁷GV³³⁸.....E³³⁹PF³⁴⁰M³⁴¹V³⁴²SG³⁴³SL³⁴⁴GL³⁴⁵VA³⁴⁶QRL³⁴⁷MR³⁴⁸K³⁴⁹V³⁵⁰CTE³⁵¹CR³⁵²IA³⁵³YH³⁵⁴PS³⁵⁵KE³⁵⁶EL³⁵⁷SR³⁵⁸F 525

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 NTDB id 1081 FDQ49 RS05335 WP 006581387.1
 NTDB id 1227 CJJ81176 RS07050 WP 011812800.1
 NTDB id 1410 SGL RS13950 WP 010873519.1



.....G.....E¹FFEP²PK³GC⁴ER⁵CH⁶HS⁷GG⁸FF⁹GR¹⁰EL¹¹IA¹²EC¹³LE¹⁴IN¹⁵ED¹⁶L¹⁷ACA¹⁸IRE¹⁹N²⁰Q²¹DK²²..I²³LM²⁴EL²⁵AK²⁶KY²⁷G 492
 G²⁸LS²⁹AS³⁰G³¹DE³²V³³V³⁴TF³⁵Y³⁶K³⁷AN³⁸SL³⁹P⁴⁰DE⁴¹I⁴²HL⁴³AR⁴⁴Q⁴⁵KN⁴⁶LC⁴⁷Q⁴⁸K⁴⁹CS⁵⁰GS⁵¹GY⁵²K⁵³GR⁵⁴V⁵⁵GV⁵⁶Y⁵⁷EV⁵⁸MR⁵⁹SR⁶⁰ER⁶¹IA⁶²EL⁶³IN⁶⁴G⁶⁵AT⁶⁶TD⁶⁷..R⁶⁸IK⁶⁹DC⁷⁰AVE⁷¹EG 603

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MQTFDQALYQLVDDKISEQDALHSA	DSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	MQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGE.HLTSVS.QGLTL.....EMSDDDPGRSFR..		381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKP.LDNRERMSEMER.....KMTFDGQRRNLK..		383
NTDB id 55578 HALHA RS08770 WP 015327442.1	MHTMDYSLRDLYLQCKISHQVALEQANDRQTLEKLI.....		347
NTDB id 1307 DR RS10055 WP 010888596.1	MVTMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLG.....GASMTPAAPPVPAYNSASSSSTGRGGDFGRG		392
NTDB id 1086 NMV RS00245 WP 002218487.1	MQTFDQSLQSLVRQGLIPEVARRRAQNSESMSF.....		347
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQTFDQSLQSLVRQGLIPEAARRRAQNSESMSF.....		347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MQTMEQNAKQLIARCVVDAQEVQSKIELDLKAF.....		345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MQTMEQNAKQLIARCVVDAQEVQSKIELDLKAF.....		345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MQTLDQHLTELVNKNIISKHTAHEAALNK.SLF.....		344
NTDB id 1259 GCO85 RS10305 WP 010947729.1	MQTLDQHLTELVNKNIISKHTAHEAALNK.SLF.....		344
NTDB id 1202 PSJM300 01600 AFN76400.1	MQTLDSCLKGLIAKGLISRDSAKEKAKQP.ENF.....		344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MQTLDMCLKGLVAKGLISRENAREKAKIP.ENF.....		344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MTTLDQSLKQLIAKGLINLPTARAVAKSP.ESF.....		344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....		345
NTDB id 1040 HON27 RS13360 WP 000355489.1	MTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....		345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MTTLDQSLKGLVSEGVISPQTARTAAKQP.ESFL.....		345
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	FQTFMEQGLKKAKEGLTSDIDELLRVVR.....		519
NTDB id 1410 SGL RS13950 WP 010873519.1	MITLLAYSLNLVQEGYTLLEEVRVTFDTGLESEMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS.....		672
consensus	**!*... * * * * * * * * * *		

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NTDB id 1203 PSJM300 01605 AFN76401.1	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	383
NTDB id 55578 HALHA RS08770 WP 015327442.1	347
NTDB id 1307 DR RS10055 WP 010888596.1	AAAPATPAAPAAGRSEPGRAGGFGRR	418
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consensus		

non conserved
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