Formatted Alignments

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                                                  10        20        30        40        50        60        70        80        90       100       110       120       130       140       150       160       170       180
Ia_{refseq}     MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGEPLEMQGVLMNYRSKYPDGTITPK
IxIV {Gardner}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ia_{A-62H}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ia_{PittVR9}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTVTPK
Ia_{PittNP5}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDSDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTVTPK
Ia_{MM}         MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{KOM-5}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{Dik}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{PittNP1}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAEYDFSSDSPERKMLPCYSTARIPLPNLYEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{CAP-h2}   MAPAKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{CAP-m2}   MAPTKRKGECPGAAPKKPEEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{KOM-1}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEIGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{CAP-m13}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMPNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{MMR-6}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLLNYRTKYPDGTITPK
Ib-1_{CAP-h8}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{CAP-m18}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{CAP-m9}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVTGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPDGTITPK
Ib-1_{HI-u5}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITQVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIRGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-1_{HI-u6}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAQNDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-1_{HI-u8}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAQNDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYWTKYPEGTITPK
Ib-1_{GBR-6}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{PittVR1}  MAPTKRKGECPGAAPKKPKEPMQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{RU9}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSKKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{LAB-22}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{HC-u2}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{CAA40247} MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{ETH-4}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{RU7}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{PittVR7}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{PittVM1}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{LAB-25}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{PittVR2}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAKNDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{FIN-13}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{FIN-23}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKVSAENDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{PittVR10} MAPTKKKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{A-23H}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{LAB-8}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{PA__France} MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGILDAITEVECFLNPEMGDPNENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ib-2_{PittVM3}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{NAR-13}     MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{OKN-28}     MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{ANY-13}     MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPNENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{Tw-1b}      MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDKNLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{FUJ-31}     MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{MT}         MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPERKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{TW-1a}      MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPQRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{RYU-2}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSVENDFSSDSPQRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{SHA-22}     MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
Ic_{TW-8a}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLKLSAENDFSSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTITPK
IL_{ETH-3}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGYSLKLTAENAFDSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{SB}         MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDDNLRGYSLKLTAENAFDSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{1025}       MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDDNLRGYSLKLTAENAFDSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{GBR-12}     MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLKLTAENAFDSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{KOM-3}      MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDDHLRGYSQHLTAENAFDSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{FUK-22}     MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDDHLRGYSQHLTAENAFDSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{NEA-27}     MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDDHLRGYSQHLTAENAFDSDSPDKKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{SJH-LG-310} MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGYSQHLSAENAFESDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IL_{AS}         MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDDNLRGYSQHLSAENAFESDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPQGTITPK
IVa-1_{VNM-7}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVa-2_{MMR-1}   MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVa-2_{FUJ-13}  MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVa-2_{RYU-3}   MAPTKRKGECPGAAPKKPKDPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVb-1_{TW-3}    MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHDNGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVb-1_{THK-8}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFNSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHDNGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVb-2_{JPN-15}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVMGITSMLNLHAGSQKVHDNGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVb-2_{OKN-22}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVMGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVb-2_{KOM-7}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVMGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVb-2_{KOM-2}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVMGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVc-1_{FUJ-32}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHQNGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVc-1_{FUJ-18}  MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPVQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVc-2_{A-66H}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVc-2_{FIN-2}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFDSDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK
IVc-2_{GRC-4}   MAPTKRKGECPGAAPKKPKEPVQVPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDNDLRGYSLRLTAETAFESDSPDRKMLPCYSTARIPLPNLNEDLTCGNLLMWEAVTVKTEVIGITSMLNLHAGSQKVHENGGGKPIQGSNFHFFAVGGDPLEMQGVLMNYRTKYPEGTVTPK

                                                 190       200       210       220       230       240       250       260       270       280       290       300       310       320       330       340       350       360
Ia_{refseq}     NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENARYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
IxIV {Gardner}  NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTEQLPGDPDMIRYIDRQGQLQTKMV
Ia_{A-62H}      NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTEQLPGDPDMIRYIDKQGQLQTKML
Ia_{PittVR9}    NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ia_{PittNP5}    NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ia_{MM}         NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYLISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ib-1_{KOM-5}    NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ib-1_{Dik}      NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ib-1_{PittNP1}  NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ib-1_{CAP-h2}   NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFRIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVGEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ib-1_{CAP-m2}   NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ib-1_{KOM-1}    NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
Ib-1_{CAP-m13}  NPTAQSQVMNTDHKAYLDKNNAYPVECWVPDPSRNENTRYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLYVSAADICGLFTNS
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