

Q9X2I0_THEMA (87-313)
 MSRR STAA (67-298)
 Q47828_ENTHR (35-262)
 Q8FLW3_CORF (151-391)
 Q5N4J8_SYN6 (42-278)
 Q9RUA3_DEIRA (32-270)
 A9WE87_CHLAA (83-345)
 Q7A6A3_STAA (46-282)
 Q3K0S7_STRA1 (214-445)
 BRPA STRMU (43-287)
 Q7A4I3_STAA (53-284)
 LYAT_BACSU (51-275)

KMSVSYLFKEGVKN---PYVFLVLGDKKEIHTV-----RTDVIIVGVGLDWKKGNLSFVSIIPRDLME----
 DVKVHQFNGPVKNDGKISILVLVGADKAQGGQS-----RTDSIMVVQYDFINKMKMMSVMRDIYADIPGY
 RADDVPKVEAKSVPKIINVALIGSDARSKEEN-----GRSDSLMIAQYNQKTKKAKLVSIIMRDSYVDIPGH
 RVDATPELTVRSNTAGT-NWLLVGSDSRQGLSEEDIARLGTGGDTGVGRDITLIMVLI--PRSGEPITLLSIPRDSYVNIIPGW
 TASSQPLLLGTGLQRFSSLLILGVQVPPDEA-----SPEAMFRGRSDTMLFVYLDQGRSLVSVLPDRDTELPGY
 HYGTLPRHGDG----PLNVLLAGVDVNYDEQA-PVWPYPAPQEPDYSGRDITLVLQVVRP-DGTVKLLSIPRDSVWPPIAGW
 PALSSPLLGA-----NILVVGVDNIRDRPE-----EGVSRDITMLIRFDGMGGVNNLSIIPRDTQVELDEL
 RQSNLRNKNKNVPEEGVSIILFLGIDDDNGRRK-----KGQDAEHSRSDAMILITFNGSKHQIRMLSIIPRDTISYTPKV
 IKKKINKRNTNKEGVMYISIGDITFGSIST-----VSRSDVINMTVNTNKHVLTTPPRDAYVKIPD
 DYGTSKGKDVIADEKPFSSILLMGVDTGSSERT-----SKWEGNSDSMILITVNPNTKTKTTLSELRDILVKLSGS
 HSELRDKKVSLNDGDPFTIALFLGVDSADRRK-----KGGERSDSMILISINPKTKETVSIIPRDTAEIVIG
 KSKKRDRKEVSIINKKDPFSSVILMGVDERDGDK-----GRADTLIYMTVNPNTNTTDMVSIIPRDTYTKTIIGK



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---GK---KINAIYNTY-----*GMEKLFQIIESLL-----GQKPDYSYVIFNYEAFKILVDEL--
 ---GKH---KINSAYALG-----GPELLRQTLDKNL---GINPEYAVVDFGFEKEMIDELMP
 ---GQD---KINAAYSYG-----GIDLLNQTLKENF---KFETPPYASITFQDFIDCVNELFP
 ---GMD---KINAAFTVG-----GPELLAQTVESST---GLVRDHYAEIGMGGLASVDAV--
 ---GID---KFNANVVG-----GPVLAETIQISLLG---KVTIDRYIRVEQRAIRFIDGI
 ---SGGWG---KINSANVHG-----GPDMLINTVQALT---GVHPDGAYALLSINALRAVTEAV--
 ---GPS---KINAAAYGYRHATELYYDGGVTPPEAGMAYAADTVSRFIFNFDQRGMRVYVQVDFGFAALIDAL
 ---GYID---KITHAHAYG-----GPIAAMDVSVEATM---NVPVDYVVRVNMKAFAVEAVNEL
 ---GGNQYDKLTHAGLY-----GVTESMKTLENLY---DINLDYARINFSFLKILIDL
 KTNDDQTGYDA--KINAAAYAG-----GAKMAVTSVDQML---DIKIDYVQVNMEGVLQVLDVAD
 ---GTTE---KITAHAYAG-----GPNMAVKSLEKLM---NVPIDHYATTDGGLHNMDISI
 ---GTMD---KINHSYAFG-----GTQMTVDTVENFL---DVPVDYFVKVNMESFRDVVDTL-



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GPTEVILPNEVMFYED---LSQNLVIDFPGVPYKLNCEQLLAYIRYRKDS--MGDLARIEROKDVLKLLKSALIE--
 NGVDINVEKDMSKNI---GVSLKKGNHR-LNGKELLGYARFRHDP--EGDFGRIRVQQQVMOTLKSKEMVNF--
 NGVDINAEKDLDDL---GVYIKAGQE-MDGNLTLLQYARFEDA--EGDFGRIRVQQQVMOTLKSKQLKQDV--
 GGVEMCEPAEPIDQPL---ANLDIAGQCE-PFGATALGYVRTRATA--MGDLDRVVRQREFSSLLNTATSP--
 GGLTVTVPRMQRMYR---VTQNLTLDLKPQGH--LGDRAVQFLRFRQDG--LGDVGRIKROQALMKALQQQLINLP--
 GGLTVTVPRMQRMYR---NAGHLHLDLQPGRQH--LSGEQAGFLRFRKDN--MGDGRVGRQOQVETALIAEIRRRP--
 GGTITDVPRVILDEAYPTPDYGVMRVEFEPGQR-MDGARALIVARTRHAD--SDFGRTGROQOMELVKVQIQRNWF--
 GGVTVTVPRVLDNEAP---TDDTKGTIKKGGYQK-LNGDEALIVARTRHAD--SDLRKGRQOMELVKVQIQRNWF--
 GGVTVTVPRVLDNEAP---GNFDFPVGQVT-LNSEQALGFVREYRSL--QGGDNGDRNGRQEKVIAAIIINKLAS--
 GGTITVTHNDFPISIT---EEHEPEPTASVEPETHK-LNGEQLVYSRMRYDD--PDGQYGRKQKREVRISVKVLLKIAL--
 GGVDDVVSNDTFTVD---GVRFTKGQTHVNGDQALKFIRSKEEGAGDGFGRQROQOIVLEAMANKITASP--
 GGTITVNSTFAFSYD---GYSFGKEGTL-LNGEALAYTRMRKED--PRGDFGRQDRQROVIOGINKGANI--



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RNPLEISVLYKKISPYIE---TDIGLPEILTLF---SKLKNSVRVFSSTLPYNVDSGD
 RTVVVKLPKVAGILRGYVN---TNIPDSGIQTGLS-FGIRGEKDVKSILTVPKINSYB-
 TSLIKLPKPAIRGLRGL---TNLPESVLIDCGI--DFLKKDDPIDLTSVPV---EG
 GTLLNPPRVPRMIGDAVGTF--TVGEGDHWHLRALALAMRGGTQETVPIA
 LGLLRVLPLGVALSQPYID--SNLSGAEVLAIT--AFLASGKPVVSTLT---PG
 ANWVVKLPKVIAALDANAK---TNLRNAPQIAELL--GAARQGPQVSTFTV---PG
 ERILLNPLRLDAITQDGETPAIVTTLPIANVDITLL--AVARIAAANLDPAIGRRIEPP
 DSDIKDLNVDIYIGVKNK---HNLNTEISEIKALAK--MYLTNDVDEIKTQAL---KG
 QSVTKLNSTISQLOQTSVO---TNMTIDINIDLINNLQSTGCRFTVESQAL---TG
 DSVSKYRKILSAVSKNMQ---TNEIIS--STIPKLLGYSDAKLSIRTYOL---KG
 SSTITHFNSLMNEIQNNVK---TDLTGLDNLTIIRS--NYKDANDTINKHOL---SG
 SSTTKFGDMLGVVENVNVK---TNLTFDNMWDIQS--DYKGARKHIIKQHEL---KG

