Thermotoga_sp. SG1 Thermotoga_sp._S t. maritima SL t..neapolitana_LA10 T._ neapolitana_DSM_435 Thermotoga_sp._AV18 Thermotoga_sp._RQ7 Th. maritima FjSS3B1 Thermotoga_sp._KOL Thermotoga sp. SR1 T1._maritima_2812B tt._maritima_MSB8 Th. thermarum LA3 Thermotoga sp. cell2 t. petrophila_RKU-1 Tt._naphthophila_RKU-10 Thermotoga sp .

Mt._igneus_Kol_5
Tc._onnurineus_NA1
hermococcus sp. 4557
Tc._gammatolerans_EJ3 hermococcus sp. AM4 Tc._kodakarensis_KOD1 ._abyssi_GE5
yrococcus sp. NA2 P. horikoshii_OT3 P. furiosus DSM 3638 P. yayanosil_CH1 c. barophilus MP Tc._litoralis_DSM_5473 Tc.__sibiricus_MM_739

SMPLKEAVERLVDENSKLDPDVIVNTCTTEAFKPFGNKEELLKAI ENNDKKRLTATQVYAYAAALYAKKRGGAAFVNVIPTYIANDPAFVEL SMTLK SMTLKEAIERLVDEWSKLDPDVIVNTCTTEAFKPFGNKEELLKAI ENNDKERLTATQVYAYAATLYAKKRGGAAFVNVIPTYIANDPAFVEL SMTLKEA ERLVDEWSKLDPDVIVNTCTTEAFKPFGNKEELLKAIENNDKERLTATQVYAYAATLYAKKRGGAAFVNVIPTYIANDPAFVEL SMTLKEAI ERLVDEWSKLDPDVIVNTCTTEAFKPFGNKEELLKAIENNDKERLTATQVYAYAATLYAKKRGGAAFVNVIPTYIANDPAFVEL SMTLKEAIERLVDEWSKLDPDVIVNTCTTEAFRPFGNKEELLKAIEDNDKERLTATQVYAYAAALYAKKRGGAAFVNVIPTYIANDPAFVEL SMTLKEAVERLVDEWSKLDPDVIVNTCTTEAFKPFGNKKELLKAIENNDKERLTATQVYAYAAALYAKKRGGAAFVNVIPTYIANDPAFVEL KMTLKEVVDRLVDEWTKLDPDVIVNTCTTEAFKPFDNKEDLMKSIENNETERLSATQVYAYAAALYASKRGGAVFVNVIPTYIANDPAFVEL SMTLKEAVDTLVKEWTELDPDVIVDTCTTEAFVPFGNKEDLLKAIENNDKERLTATQVYAYAAALYANKRGGAAFVNVIPTFIANDPAFVEL SMTLKKA SMTLKEAVDTLVKEWT ELDPDVIVNT TTEAFVPFGNKEDLLKAIENNDKERLTATQVYAYAAALYANKRGGAAFVNVIPTFIANDPAFVEL
 SMTLKEAVDTLVKWTEDPDVIVNTGTAEAFIPFGNKEDLLKAI ENNDKERLTATGVYAYAAALYANKRGGAAFVNVIPTFIANDPAFVEL
 SMTLKEAVDTLLKEWTELDPDVIVNTCTTEAFIPFGNKEDLLKA ENNDKERLTATQVYAYAAALYANKRGGAAFVNVIPTFIANDPAFVEL SMTLKEA
NLSLSEAVDKLIE SWK EKGVEVIVNVCTTESFVPFNDKEELIKAIEEDKKERVTATQVYAYAACKYAKEVGGAAFINAIPTLIANDKAFVEL EMSLKEAVEKLVEEWKELKPDVIVNTCTTEAFVPFGNKEELIKAIEENNKDRLTATQVYAYAAALYAKEVGGAAFVNTIPTLIANDPAFVEL EMTLKEAVEHLVNEWKELGAEVF INVCTTEAFQPFGSREELEKAIEEDNRDRLTATQVYAYAIAQYAKEVGGAAFVNAIPTI IANDPAFVEL EMTLSEAVEHLVSEWKELKPDVFVNVCTTEAFQPFGSREELEKAIEEDNRDRLTATQVYAYAMAQYAKEVGGAAFVNAIPTLIANDPAFVEL

 EMTL EMTLKG
 EMPLKEA L EMSLKDA EMSLRDAR RMTSKK EMSLKEAVEKLVEEWKKLDVDVIVNVCTEAFYPFGNKEELIKAIENDERERLTATQVYAYAAALYAKERGGAAFVNAIPTLIANDPAFVEL EMTLKEAVEKLVEEWKKSTPDVI INVCTTESFTPFGNKEKLIKAIEDNNKERLTASQVYAYAAALYAKEVGGAAFVNAIPTLIANDPAFVEL

