

--LVKMDILLnGntvEELVtVVKDKAHSIGKAicERLKDLSIPRQLfEIAIQAAIGSKIIAREtVKAYR
! *!
--LVKvnlVLVHGEPVDALtIARHDKAYSmARAIVDRLAIEVPRQLfEVPVQAAIGGKIIAREtVKALR
--LRKVDILVnGEVVDALAVIVHEDKAYSLSGRKIVDKmAEVPRQLfPVPVQAAIGGKIIAREtVKAYR
--LVKLDILVnDEKVDALAVIVHRDKAYSLSGRKIVDKmAEVPRQmFAVPIQAAIGGKIIAREtVRAFR
---VKmnlILnGKPVdALAmIVHKLAAQSIGKAWvtKLKEVVPVPRQfEELSIAQAAIGAKVIARDnVKAFR
--LVKMDILInGDPVDafASIVHRDKAEGKGRELcEKLADIIPAQmFKVAIQAAIGGKIIARDnVKEMR
--LVKLDILInQAVDALatIVHKQKAYRVGKELVEKLNyIERQmfEvmIQAAIGSKIIARDtISAMR
--LVKLDILVnGPIEALScIVHSSKABSRGRSIIQKLESIPRHLfKIALQAAVGSKILAREDIGA
--IVRmDVLVnGIVDIALVHRtKARHGKDIIVARLQELPRQLfEIAIQAAIGSKIIAREDIRAFR
--LVKMDVLVnQESVDALAmIVHRSQAERRGRHLcERLKDILPRQmfKIAIQAAIGGKIIAREDISAFR
--LVKLDILIGGEVMDALSmIVHDKKAYYRGALVEERLKLIPRQmfEIPVQASIGnKVIAREnIKAMR
--LVKVDILLQGEtVDAfSAIVHDKKAYGYGVAmTSLRRELIPRQfEVPVQAAIGSRRIAREnIRAIR
--LVKVDILLQGEtVDAfSAIVHDKKAYGYGVAmTSLRRELIPRQfEVPVQAAIGSRRIAREnIRAIR
--IVKLnLmLnGEIVBELtLrVHVSKARYGKIEicLRLAETIPRQmfQVAIQAVIGSKVVAREnVAAAL
---VKmnlILnGKPVdALAmIVHkfaAQSIGKAWvtKLKEVVPVPRQfEELSIAQAAIGAKVIAREnVKAFR
--LVKLDIRLnGEPVDALSSLIHRsNAyefGKKIcEKLKELEPRQfEIAIQASIGAKVIAREnVRALR
--LVKMDImLnGEQVDALSSLIHRsNAyefGKKIcEKLRELIPRQfDIAIQASIGAKIIAREnVRALR
---VKLDILLnGDPVDALStIVHADRAAtRGRQLAQLKEIIPQmfEIPVQAAIGnKIIAREnVRAMR
--LVRLDILLnGEPVDALSSLIHRANsYdfGKKIcEKLRELIPRQfEIAIQASIGAKVIAREnVRAMR
---VKLDILLnGDAVDALStIVHRDRAAQRGRQLatKLKEIIPQmfEIPVQAAIGSKIIAREnVRARR
---VKLDILLnGDPVDALStIVHRDRAAQRGRQLatKLKEIIPQmfEIPVQAAIGSKIIAREnVRARR
---VKLDILLnGDPVDALStIVHRDRAAQRGRQLAAKLKEIIPQmfEIPVQAAIGSKIIAREnVRARR
---VKLDILLnGDPVDALStIVHRDRAAQRGRQLAAKLKEIIPQmfEIPVQAAIGSKIIAREnVRARR
---VKLDILLnGDPVDALStIVHkDRAAQRGRQLAAKLKEIIPQmfEIPVQAAIGSKIIAREnVRARR
--mVKVDILLnGDPVDALSAIVHRDRAAQRGRALVEKLRKIIPRQLfEIPVQAAIGSKIIAREnVSALR
--mVKVDILLnGDPVDALSAIVHRDRAAQRGRALVEKLRKIIPRQLfEIPVQAAIGSKIIAREnVSALR
--mVKVDILLnGDPVDALSAIVHRDRAAQRGRALVEKLRKIIPRQLfEIPVQAAIGSKIIAREnVSALR
--LVRLDILLnGEPVDALSSIIIVHRDKAYHYGRALAIKLRtIPRQmfEVAIQAAIGGKIIARESI
---VKLDILInGEPVDALAVIVHRDKAYHYGRALAIKLRtIPRQmfEVAIQAAIGQKIIARESISALR
---VKLDILInGEAVDALAVIVHRDKAYHYGRALAIKLRtIPRQmfEVAIQAAIGQKIIARESISALR
---VRLDILLnGEPVDALAVIVHRDKAYHYGRSLAIKLRtIPRQmfEVAIQAAIGQKIIARESISALR
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--IVRLDVLInGQSDALAGLIHRDKAQRSGKAWvtRLKEILPRQLfEVIQAAVGSQKVLARESIAYK
---VKLDILLnGDKVDALSAIVHRDKAYHYGRALVEKLRKEIIPRQfEIAVQAAIGtKVIARESVKALR
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--LVKVDILLHGtVDAfSAIVHDKKAYAYGVRmtERLRELIPRQfEVPVQAAIGSRVIARESVRAmR
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--LVKVSILVnGDPVDALSmIVHRDQAEGKRAIcIRLKLIVPRQmfKVAIQAAIGGKIIAREtIAALR
--LVKMSILVnEPVDALSmIVHRSQAERRGRGmcERLKDILPRHLfKIPVQAAIGGKIIAREtIAAMR
--LVKMSILVnEPVDALSmIVHRGtAESSRGRGmcERLKDILPRHLfKIPVQAAIGGKIIAREtIAAMR
--LVRLDILLnGEPVDALsfIthKERAYQRGRQVAEKmKELIPRQmfEIAIQAAIGnKIIAREtIGA
---VKVDVmVnGEQVDALsfIVHQDKAYtRARLLVEKLRKEIIPRQmfEVAIQAAIGSRRIAREtIGAmR
--LEKVDVLVSGERVdALsfIVHKDRAYSRRGLLVEKLRKEIIPRQmfEVAIQAAIGSRRIAREtIGAmR
--LVKMSILVnAEPVDALSmIVHRtRAESSRGRGmcERLKDILPRHLfQIPVQAAIGGKIIAREtIKA
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--LIKmnILLnGQPVBEELitIVHRGRAYSAGKAmcERLKDLSIPRQmfEVAVQAAIGSKVIAREtIKAfR
--LVKVDILLnGDKIDafSIIthKDSAYEKSRDLtKRLKDAIPRQmfEVPVQAtIGGKIIAREtIKAfR
--LVKVDILLnSDKIDafSIIthKDRAYPAARELcEKLKnAIPRQmfEVPVQAtIGGKIIAREtIKAfR
--LVKVDILVSGKVPDafSIIthKDRAYSRRGALcEKLREIVPRQfEIPVQAAIGSKVIAREtIKAfR
--LVKLDILLnGDLIDafSIIIVHRDRAYnRGRALADKLDLIPRQmfEVPVQAVIGnKVIAREtIKAIR
---VKVDVLInAnSVDALSALIHADnAYnIGKMcEKLRELIPRQfDIPVQAAIGAKIIAREtIKALR
--LcKVDILInGEIVDALsfIVHDKKAYARALLVEKLRDVIIPRQLfEIPVQAAIGGRIAREtIKALR
--LIRMDILLnAEOQLDALSAIVHRSNAyDLGKRicVKLRKELEPRQfEIPVQAAIGAKIIAREtIKALR

>sp!Q8N442!GUF1_HUMAN-Translation-factor-GUF1,-mitochondrial-precursor-(EC-3.6.5.-)-----
>tr!B7AA86_THEAQ-Elongation-factor-4-precursor-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q1IXW5!LEPA_DEIGD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D7CWN1_TRURR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E6R5D2_CRYGW-GTP-Binding-protein-lepA,-putative-[CGB_D0630W]-[Cryptococcus-----
>tr!C0A2X0_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q9FLE4!GUF1_ARATH-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>tr!C5WH52_STRDG-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q00ZZ1!GUF1_OSTTA-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>tr!G2KPD4_MICAA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C8W4T0_DESAS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B8B2R1!GUF1_ORYSI-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>sp!Q0RP81!LEPA_FRAAA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E9GF27_DAPPU-Putative-uncharacterized-protein-[DAPPUDRAFT_49405]-[Daphnia-pulex-----
>tr!Q5K8D2_CRYNJ-GTP-Binding-protein-lepA,-putative-[CNL06110]-[Cryptococcus-----
>tr!F4C2A9_SPHS2-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q2NJE6!LEPA_AYWPB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E4HM53_PROAA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A6E8P9_9SPHI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F5RKD2_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G5GP93_9FIRM-GTP-binding-protein-lepA-[HMPREF9334_01074]-[Selenomonas-infelix-----
>tr!E0NZX6_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D0TB08_9BACE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G5GZU4_9FIRM-GTP-binding-protein-lepA-[HMPREF9432_00561]-[Selenomonas-noxia-----
>tr!D1RFN1_LEGLO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4Q642_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C0W9W6_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D2RKV8_ACIFV-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B5YHC9_THEYD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G2HBK9_9DELTA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B8DIZ5!LEPA_DESVM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q1MQF3!LEPA_LAWIP-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q8KCH0!LEPA_CHLTE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C1ECS2_MICSR-Predicted-protein-[MICPUN_84871]-[Micromonas-sp.-(strain-RCC299-/-)-----
>tr!E4TSN5_MARTH-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F0DKW6_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C7Q5D1_CATAD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F3Y4J2_9FLAO-Elongation-factor-4-2-(EC-3.6.5.n1)-(EF-4-2)-(Ribosomal-----
>tr!D5BT68_PUNMI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D4Z6A0_SPHJU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F6ET26_SPHCR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E6EHN0_PROAA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B6ARJ8_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C6I0S2_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B1M5P4_ME'FRJ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E7FFK6_DANRE-GUF1-GTPase-homolog-(S.-cerevisiae)-[guf1]-[Danio-rerio-(Zebrafish)-----
>tr!G3Q4C3_GASAC-Uncharacterized-protein-[GUF1]-[Gasterosteus-aculeatus-----
>sp!A5IY50!LEPA_MYCAP-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D7WQK6_9BACI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E5BYP2_9FUSO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q5ZUD2!LEPA_LEGPH-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F9YVJ7_CAPCC-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D9S2N8_THEOJ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F2KL08_PSEBN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----

---VKVDILVSGKPVDAfSfIAHnDnAfYRGAiCQKLEVIPRQqFEIPIQAALGSKIIAREtIKAYR
---VRLDILHnGRPVBELLatIVQRDRAYStGKSmcERLKDAlPRQmFfEIAIQAAcVGSKVLAREtIKAYR
---LlKMDILLnGKVPBELLatIVQRDRAYStGKSmcERLKDAlPRQmFfEIAIQAAcVGSKIIAREtIKAYR
---LlKVDVLLnGKIDALAIIVHKDFAYSRGRDLtVklKEVIPRQnFfEIPVQAAIGAKVIAREtIKAYR
---LVKLDILLnGQKIDALSmIVHKDFAYPKARDLtQRlKnIIPRHfSEVPVQAVIGSKVIAREtIKAYR
---LVKVDILLnGDKIDAFsIIItHKDSAYSskARDLtQlKEAlPRQnFfEVPVQAtIGSKIIAREtIKAYR
---LVKVDILLnGDKIDAFsIIItKQDSAYSPrARELcEKLKAEIIPRQnFfEVPVQAVIGSKIIAREtIKAYR
---LVKVDILLnGDKVDfSfIISHKDNAYASGRELcEKLKAEIIPRQnFfEIPVQAtIGGKIIAREtIKAYR
---LVKVDILLnGKIDALAmIVHRDSAYnKSRALtEKLKEVVPRQnFfEIPVQAAIGAKIIAREtIKAYR
---LVKVDILLnGKVDfSfIAHKDKAYEHARELcIKLkDEIPRQnFfEIPVQAtIGGKIIAREtIKAYR
---LVKVDILVSGKPVDAfSfIAHKDAYSrGRAicEKLKEVIPRQqFEIPIQAALGAKVIAREtIKAYR
---LVRmEILLnGnPVBELGSIVHKDKAAAVGRVvcERLkDSLPRQfEIAIQAAVGSKIIAREtIKAYR
---AKLDILLnGEPVDALSAltHQDnAVtIGRkMcEKLKDLIPRQqFDIAIQAAIGKIVAREtIKcVR
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---VKVDILVSGKPVDAfSfIAHnDSAYtRGRAicEKLKDVIPRQqFEIPIQAALSSKIIAREtIKPYR
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---LVKVDILLnGKIDALAmIVHRDfAYnKSRDLtEKLKEVIPRQnFfEIPVQAAIGAKIIAREtIKSYR
---LVKMDILVnEvVDALSLItHRDQAYQRGRALVERLRLIPRQlFdvPIQAAIGSRVIAREtIPALR
---LVRDLILInGDVvDSLStIVHRDKAfYVGRSLVAKLRELIPRHFfEVPVQAAIGSKVIAREtIPALR
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---LVKMDILInSELVDAfSmIVHKDtAYARGRRicEKLtDVIPRHfQfAIPVQAAIGAKIIAREtIRALR
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---LVKVDILLnGERVDafSAVHRDAAAYSyGvmmtAKRLKDLIPRQqFEVPVQAAVGARIIAREtIRALR
---LVKVDILVSGnVVDafSfIAHKDHafnRGRSIVERLKEVIPRQqFEIPLQAALGSKIIAREtIRALR
---VKLDILLnGEBADALSfIVHKDKAYERGRIVcEKLKEIIPRQlFfEVPVQAAIGSRVIAREtIRAmR
---VKLIDILLnGEBVDAfSfIVHKDKAYERGRIVcEKLKEIIPRQlFfEVPVQAAIGSRVIAREtIRAmR
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---LVKLDILVnGQPVDALSLIVHRDfAYAQGRALVERLRKLIIPRQmFfEVPVQAAIGSKVIAREtIRAmR
---LVKVDILLQGEQVDafSAIVHKDKAYAYGVQmtAKLkDLIPRQqFEVPVQAAIGSRIIAREtIRAmR
---LVRMDILInGEPVDALSSIVHRDRAYQRGRALcERLkELIPRQlFfEVPVQASIGnRVIAREtIRAmR
---VKMDILLnGEBVDAfSfIVHRDKAYHRGRQLVERLRLIPRQmFfEVPVQAAIGnKVVAREtIRAQR
---AKMEILLnGtPVDAfSfIVHEEKARItGKQVcQKLEAlPRQlYEVAlQAtIRGKVVAREtIRA VR
---LVKVDILLnGDPVDALSSIVHRDKSAYSyGvMAAAKLELIPRQqFEVPVQAAIGARVIAREtIRA VR
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>tr!G6C577_9FUSO-Putative-uncharacterized-protein-[HMPREF9093_01723]-[Fusobacterium-----
>tr!B4NCH5_DROWI-GK25080-[GK25080]-[Drosophila-willistoni-(Fruit-fly)]-----
>tr!Q4TCa6_TETNG-Chromosome-1-SCAF7036,-whole-genome-shotgun-sequence.--(Fragment)-----
>sp!Q6KHP1!LEPA_MYCMO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!D5AWJ8_RICPP-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!Q8GCP5!LEPA_MYCFE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F9UJY2_9MOLU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F9QEM8_9MOLU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!E8T0E8_GEOS2-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!Q4A5S3!LEPA_MYCS5-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!C3WB59_FUSMR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F7CM81_ORNAN-Uncharacterized-protein-[100085632]-[Ornithorhynchus-----
>tr!G6B229_9BACT-GTP-binding-protein-LepA-[HMPREF0673_02960]-[Prevotella-stercorea-----
>tr!D3IA24_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!D1VX24_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!B0BWV5!LEPA_RICRO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!Q55ME0_CRYNB-Putative-uncharacterized-protein-[CNBI0720]-[Cryptococcus-----
>tr!E5BLl2_9FUSO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!E6LK47_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!D1XXV9_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!B3PLU0!LEPA_MYCA5-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!Q2RKX8!LEPA_MOOTA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!Q2JQ51!LEPA_SYNJB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!A3ESM4_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!B0UFE0!LEPA_METS4-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!B8IMT0!LEPA_METNO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F0IFG7_9FLAO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!E8UH82_MYCFM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!E3IRM7_DESVR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F4H3E0_CELFA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!B3T1M5_9ZZZZ-Putative-GTP-binding-protein-LepA-C-terminal-domain-----
>tr!F9PJN0_9ACTO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>sp!B3CRQ1!LEPA_ORITI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!B8G617_CHLAD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!B9LBP0_CHLSY-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!G2MR57_9THEO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F9MS26_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!E4KTM0_9PORP-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!E8QAW8_STRED-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!C0W2Y9_9ACTO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!E7NCA7_9ACTO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F9EGB5_9ACTO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!D4HD61_PROAS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!C8WY50_ALIAD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F8IF57_ALIAT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!A7NJP1_ROSCS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!A5USY2_ROSS1-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!D7AI47_GEOSK-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!D5WXM9_BACT2-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F5SE42_9BACT-GTP-binding-protein-LepA-[lepA]-[Desmospora-sp.-8437]-----
>sp!B3RXR7!GUF1_TRIAD-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-
>tr!G4D038_9ACTO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!D7M1G6_ARALL-Putative-uncharacterized-protein-[ARALYDRAFT_487706]-[Arabidopsis-----
>tr!F3P011_9ACTO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----
>tr!F9NTW6_PROAA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal)-----

--LVKLLDVLInGQVInELStIVHKDKAYPVGKtLASKLKDVIPRQLYEVVVIQAAIGnKVIAREtIRAYK
---VRLDILLnGEAVDALAVIVHKDKSAYRGRALALKLKRtIPRQmFEVAIQAAIGQKVIAREtISALR
--LVKLDILLnGEQVDALSLVHrtKASERGLKAcERLKEEIPRQmFKIAIQAAIGnKVIAREtISALR
--LVKLEIKLnGEVnDALSALVHRSKAEsfGRKICtERLKEELPRQQfEIAIQAAIGnKVIAREtISALR
--LVKMDILLnSEVVDALsfIVHKDtAYARGKVicEKLELIPRQQfEVPVIAQIghKVVAREtISALR
--LVKVSILLnGDPVDALAmIVHREQAfYRGRAlcARLKDILPRQmFKIAIQAAIGGKVIAREtISALR
---VRLDILLnGEAVDALAVIVHRDKAYHYGRALALKLKRtIPRQLfEVAIQAAIGQKVIAREtISAmr
--IAKMDILLnGDKVDALSLIHRSKRAQDfGRKLCERLKEELPRQQfEIAIQAAIGnKVIAREtISAmr
--IVRMDVLnGSVVdALAtIVHRSKRAQHGRLDLVARELKEALPRQmFEVAIQAAIGnKVIAREtISAmr
--LARLDILLnGEPVDALSVIVHRDRAYLRGREVcQKLEKVIKQmFEVAIQAAIGAKVIAREtISAmr
--LVKLDILLnGQPVdAmAtIVHnLKAQRVGRLEVDKLLKfIDRQmFEItIQAAIGSKVIAREtISAmr
--LVKLDILLnGQPVdAmAtIVHnLKAQRVGRLEVEKLLKfIDRQmFEItIQAAIGSKIIAREtISAmr
--LVKLDILLnGQVDAmAtIVHKLKAQRIGRELVKLLKfIDRQmFEItIQAAIGAKVIAREtISAmr
--LVKLDVLInGEPVDALSSIVHRSKYEwGRKLCsKLLKGIIPRQmFEVAIQAAIGSRVAREtISAmr
--LVKLDVLInGESVDALStIVHRSKAYEwGRRLcQKLSIIPRQmFEVAIQAAIGSRVAREtISAmr
--LVKLDVLInGtVDALSSIVHRSKAYDwGRKLCcLKLKGIIPRQmFEVAIQAAIGnRVIAREtISAmr
--LVKMDILLnGEIVDALsfIVHtDtAYPRGKVicEKLRKLIPRQQfEVPVIAQIGQKIVAREtISAmr
--LVKMSILVnAEPVDALStIVHRSQAfHRGRLLcERLKEELIPRQLfKIAVQAAIGSRVAREtISAmr
--LcRLDILLnGEPVDALSSIVHVKAEfGRGRALcSRLKEELPRQmFKIAIQAAIGKVVAREtISAYR
--ISKLTlInSEPVdALScIIHKSQVSRGREIcERLKDILPRQQYKVAIQAAIGAKIVAREtISPYR
--VSKLtlInSELVDALAcIIHKSQVSRGREIcERLKDILPRQQYKVAIQAAIGSKIVAREtISPYR
---VRMDILLnQLVDELctVVHISKAQSHAKELVLKLELIPRQmVQIAIQAAIGKVVAREtLKAYR
---VRMDVLInGtLVDELctVVHISKAQSHARELVLKLELIPRQmVQIAIQAAIGKVVAREtLKAYR
--LIKMDILLnGnPIBELAtIIHnDKAYAtGKfLcERLKDILPRQLfEIAIQAAIGKIIAREtLKAYR
--LIKMDILLnGnPVBELStIIHnDKAYAtGKfLcERLKDILPRQLfEIAIQAAIGKIIAREtLKAYR
---VKLDILLnGKmVQELStIVHAEKAHQtGKKIcVKLLEIIPQQLfEIAIQAAIGKVVAREtLKPYK
--IVKLDILLnGKLVBELStIVHtKAYKtGKLLcAKLLEtIPRQLfEIAIQAAIGnKVIAREtLKPYK
--LVKLnILLnGKmVBELctIVHrtKAtQIGKLLcIKLLDtIPRQLfEIAIQAAIGSKIIAREtLKPYK
--IVKLnILLnGKLVBELctIVHrtKAtQIGKLLcIKLLDtIPRQLfEIAIQAAIGSKIIAREtLKPYR
--LVKLDILLnGQPVdALAScHRSKAHYVGRLEcEKLLKVLDRQmFEVAIQAAIGAKVVAREtLPALR
---VKMQVLVnDEPVDALStmVHRDRAEfARGRAmCEKLLKDILPRHmfKIPIQAAIGKVIAREtLSALR
---VKMSILVnDEPVDALStmVHRDRAEfARGRAmCEKLLKDILPRHmfKIPIQAAIGKVIAREtLSALR
---VKMSVLVnDEPVDALStmVHRDRAEfARGRAmCEKLLKDILPRHmfKIPIQAAIGKVIAREtLSALR
---VKMSVLVnDEPVDALStmVHRDRAEfARGRAmCEKLLKDILPRHmfKIPIQAAIGKVIAREtLSALR
--LVKLDILLnGELVDALsfIVHEEKVGRGRAItKLLKESIPRQmFEIPIQAAIGnKIIAREtLSALR
--mVKLDVImLnGDRVDALSAIVHRSKSYEwGKLLcEKLELIPRQQfEIAIQAAIGQKIIAREtLSALR
--LVKMDILLnGQPVdAmAtIIHnQKAQKVGRELVDKLLKfIERQmFEItIQAAIGSKIIAREtLSAmr
--LVKMDILLnGQPVdAmAtIIHnQKAQKVGRELVDKLLKfIERQmFEItIQAAIGSKVIAREtLSAmr
--LVKMDILLnGQPVdAmAtIVHnQKAQRVGRLEVEKLLKfIERQmFEItIQAAIGSKVIAREtLSAmr
--LVRVDILLnGdTvDALsALLHADnAYtIGKKIVEKLLKtLIPRQQfDIPVIAQIGAKIIAREtKALR
--LVRVDILLnGtPVDALSALLHADnAYSIGKRIVEKLLKELPRQQfDIPVIAQIGAKIIAREtKALR
---VKLDILLnGELVDALSmIVHKDKAYEKARKIVEKLLKEnIPRHfEIPVIAQIGSKIIAREtV
---VKLDILLnGELVDALSmIVHKDKVYEKARKIVEKLLKEnIPRHfEIPVIAQIGSKIIAREtV
--LVKMDILLnKEQVDALsfIIHtRAfVGRGAmCEKLLKDEIPRHfEPVPIQAAIGnKIIAREtVAAYR
---VKLDILLnGELVDALSmIVHKDKAYEKARKIVEKLLKEnIPRHfEIPVIAQIGSKIIAREtVKA
--LVKLDVLVSGEQVDALSLIHRDnAYARGRALVEKMKELIPRQLfEVPVIAQIGnRVIAREtVKA
--LVKLDILLnGEPVDALSVIVHRRERAYHRGRELcQKLRVfIPKQmFEVAIQAAIGAKIIAREtVKAfr
--LVKLDILLnGEPVDALSVIVHRRERAYQRGRDLcQRLREVIPKQmFEVAIQAAIGAKVIAREtVKAfr
--LVKLDImLnGEIVDALsfIVHREKSVARGRRmAEKLLKESIPRQmFEIPIQAAIGKIIAREtVKAfr
--LVKLDImLnGEVVDALsfIVHADKAYARGRRmtEKLLKEnIPRHmfEIPVQAcIGKIIAREtVKAfr
--LVKLDImLnSEVVDALsfIVHREKSVtRGRmAEKLLKESIPRQmFEIPIQAcIGKIVAREtVKAfr
---VKLDVLInGDPVDALSAIVHRDKAYEwGKLLcEKLELIPRQQfEIAIQAAIGAKVIAREtVKAfr
--LVKLDILLSGKPIDALSfIVHKDKAYDRGRVLAELKLGIIIPRQmFEVPIQAAIGGRVLAAREtVKAfr
--LVKLDILLSGKPIDALSfIVHKDKAYDRGRVltEKLEIIPRQmFEVPIQAAIGGRVLAAREtVKAfr

>tr|C3XWB6_BRAFL-Putative-uncharacterized-protein-[BRAFLDRAFT_117127]-[Branchiostoma-----
>tr|G1V2S7_9DELTA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|E8RDF7_DESPD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|F4KZL9_HALH1-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|C0ZB42_BREBN-GTP-binding-protein-LepA-[lepA]-[Brevibacillus-brevis-(strain-47/------
>tr|G5ZXG5_9PROT-GTP-binding-protein-LepA-[HIMB100_00007140]-[SAR-116-cluster-alpha-----
>tr|A8SE73_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|C7PDZ4_CHIPD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|A4S3R2|GUF1_OSTLU-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>tr|E3FMN4_STIAD-Elongation-factor-4-1-(EC-3.6.5.n1)-(EF-4-1)-(Ribosomal-----
>sp|B9RUN8|GUF1_RICCO-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>tr|F6H5P1_VITVI-Putative-uncharacterized-protein-[VIT_14s0108g00130]-[Vitis-----
>tr|B9IJU6_POPT- Predicted-protein-(Fragment)-[POPTRDRAFT_258992]-[Populus-----
>sp|B3QPJ3|LEPA_CHLP8-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|A9N944|LEPA_COXBR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|B3QXN4_CHLT3-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|F7U082_BRELA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|G5GWI5_FUSNP-GTP-binding-protein-LepA-[HMPREF9369_01381]-[Fusobacterium-----
>tr|D5EPP9_CORAD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|Q5PAX8|LEPA_ANAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|Q2GJV7|LEPA_ANAPZ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|Q0IFX5|GUF1_AEDAE-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>sp|B8AI54|GUF1_ORYSI-Translation-factor-GUF1-homolog,-chloroplastic-precursor-(EC-----
>tr|G1NHQ6_MELGA-Uncharacterized-protein-(Fragment)-[GUF1]-[Meleagris-gallopavo-----
>tr|F1NX95_CHICK-Uncharacterized-protein-(Fragment)-[Gga.39342]-[Gallus-gallus-----
>tr|G7V117_LACRH-GTP-binding-protein-LepA-[lepA]-[Lactobacillus-rhamnosus-ATCC-8530]-----
>tr|B3JGT2_9BACE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|G3Q4C0_GASAC-Uncharacterized-protein-(Fragment)-[GUF1]-[Gasterosteus-aculeatus-----
>tr|E9JD47_SOLIN-Putative-uncharacterized-protein-(Fragment)-[SINV_02352]-----
>sp|A9S3D3|GUF1_PHYPA-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>sp|B1ZC10|LEPA_METPB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|Q5LU50|LEPA_SILPO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|B9NPG9_9RHOB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|Q1GIV5|LEPA_SILST-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|E3GFV8_EUBLK-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|D2QIF4_SPILD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|D7SWK1_VITVI-Putative-uncharacterized-protein-[VIT_07s0031g03050]-[Vitis-----
>tr|B4ARZ9_FRANO-GTP-binding-protein-LepA-[lepA]-[Francisella-novicida-FTE]-----
>sp|C5Z3W1|GUF1_SORBI-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>sp|Q5VQ69|GUF1_ORYSJ-Translation-factor-GUF1-homolog,-mitochondrial-precursor-(EC-----
>tr|A7LWQ3_BACOV-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|A4BY39_9FLAO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|D9ZYU2_9THEO-GTP-binding-protein-LepA-(Fragment)-[lepA]-[Thermoanaerobacter-----
>tr|D9ZYU0_9THEO-GTP-binding-protein-LepA-(Fragment)-[lepA]-[Thermoanaerobacter-----
>tr|D4MXW6_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|E5UYX0_9BACE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|G2LF38_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|A7HCF3|LEPA_ANADF-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|B4UDQ7|LEPA_ANASK-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp|B8I3E6|LEPA_CLOCE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|D3R1J1_CLOB3-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|F3A2I6_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|E4RV19_LEAB4-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|F7V1F2_EEGSY-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr|C8WHM9_EGGLE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----

---VKLDILInGDLVDALSmIVHKDKAYEKARKIVEKLKEInIPRHlFEIPIQAAIGSKIIAREtVKALR
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---VKLDILInGELVDALSmIVHKDKAYEKARKIVEKLKEInIPRHlFEIPIQAAIGSKIIAREtVKALR
---VKLDILInLELVDALSmIVHKDKAYEKARKIVEKSKEnIPRHlFEIPIQAAIGSKIIAREtVKALR
---VKLDImIKGEVVDALsfIVHRDKAYQRARKIVEKLKEEIPRHlFEIPIQAcIGSKVIAREtVKALR
---VkmDVLInGKLDALSwIVHRDfAERRGRLELVGRlKELIPRQmfEVAIQAAIGAKIIAREtVKALR
---VKVDVLLnGntVDALSALLHKnAYDlGKkMcEKLKELIPRQqFDIPIQAAIGAKIIAREtVKALR
---VRLDvMlnGEPVDALSAlVHRDKAYEWGRlLcEKLKELVPRQmfEIAIQAAIGtKVIAREtVKALR
---VRLDvMlnGEPVDALSAlVHRDKAYEWGRlLcEKLKELVPRQmfEIAIQAAIGtKVIAREtVKALR
---LLKLDILVnKEQVDALsfIVfADSAYDRGRKMcEKLKGEIPRQlFDIPIQAAVGSKVIAREtVKALR
--LVKLDILInSEVVDALSmIVPKDRAYAKGRtmaEKLKEIIPRQlFEIPIQAAVGSKIIAREtVKALR
--LVKLDILInDQSVDALSLIVHRDnAYARGRIVfEKLKDEIPRQqFAVPIQAAIGGKIIAREtVKALR
--LVKLDILInEQnVDALSAlVHRDnAYARGRIVfEKLKDEIPRQqFAVPIQAAIGGKIIAREtVKALR
--LVKLDILInGDKVDALSAlVHRDnAYARGRIVfEKLKDEIPRQqFAVPIQAAIGGKIIAREtVKALR
--LVKLDILInGEIVDALSmIVHKDKAYERARKmtERLKEInIPRHlFEIPIQAAIGSKIIAREtVKALR
--LVKLDILInGEVVDALSmIVHKDKAYEKGRKIVEKLKEInIPRHlFEIPIQAAIGSRRIAREtVKALR
--LVKLDILInKEEVDALsfIVfEDSAERGRKMcEKLKEEIPRQlFEIPIQAAIGSKVIAREtVKALR
--LVKLDILInKEmVDALsfIVfKESAYERGRKMcEKLKGEIPRHlFEIPIQAAVGGKIIAREtVKALR
--LVKLDILInKEQVDALsfIVfKDSAYDRGRKMcEKLKEEIPRHlFEIPIQAAVGGKVIAREtVKALR
--LVKLDILVGGEVVDALSSIVHKDRAYQRGRQlAEKLKELIPRHmfEPIQAAIGnKIIAREtVKALR
--LVKLDILVnGEVVDALSmIVHKDKAYEKGRKIVEKLKEInIPRHlFEIPIQAAIGSRRIAREtVKALR
--LVKLDImIKGEVVDALsfIVHKDKAYQRARRIVEKLKEEIPRHlFEIPIQAcIGSKVIAREtVKALR
--LVKMDILiAGEPVDALSIIVHEDKAYRGRQlVEKLRELIIPRHlFEIPIQAAIGSRVIAREtVKALR
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--LVKVDVLLnAnIVDALSLIHHADnAYDIGIKRlCIEKLKELIPRQqFDIPIQAAIGAKIIAREtVKALR
--LVKVDVLLnGntVDALSALLHKnAYDlGKkMcEKLKELIPRQqFDIPIQAAIGAKIIAREtVKALR
--LVRLDVLInAQPVDALSAlIHHADnAHTIGKkMtEKLKELIPRQqFDIPIQAAIGAKIIAREtVKALR
--LVRmnlInInGEAVDALSLIHRDKAYRGRDLVSKmKELIPRQmfEVIQAAIGAKVIAREtVKALR
--LVRmnlInInGEVVDALSIIHRDKAYRGRDLVSKmKELIPRQmfEVAIQAAIGAKVIAREtVKALR
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---IKLDImLnGEKVDALSAlVHRDKAYDwGRlLcEKLKDLIPmQmfEIAVQAAIGQKIIAREtVKAmR
---VKLDILInKEEVDALsfIIHADtAYERGRKMcEKLKEEIPRQlFEIPIQAAIGSKIIAREtVKAmR
---VKLDILInKEEVDALsfIVHEDtAYERGRKMcEKLKEEIPRHmfEVAIQAAIGSKVIAREtVKAmR
---VKLDILInGEKVDALSAlVHRDKAYDwGRlLcEKLRELIIPRQmfEIAIQAAIGAKIIAREtVKAmR
---VKLDILInGEVVDALsfVHADKAYARARKIAEKLKDNIPRQlFEVPIQAAVGGKIIAREtVKAmR
---VKLDImLnGEVVDALsfIVHADKAYARGRRIAEKLKDVIPRQlFEVPIQAAVGGRIAREtVKAmR
---VkmDILnAEQVDALsfIVHKDRAYHRGRAIcEKLRELIIPRQmfEVPVQASVgtKVVAREtVKAmR
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---VkmDImLnBQVDALSIIVHRDRAYHRGRAIcEkmKELIPRQmfEVPVQASIGtKVIAREtVKAmR
---VkmDImLnBQVDALSIIVHRDRAYQRGRVlCkMkELIPRQmfEVPVQASIGtKVIAREtVKAmR
--LVKLDfLLnGDPVDALSmIVfRDnAYAKRRlCIEKLrDnIPRnLfEIPVQAAIGGKIIAREtVKAmR
--LVKLDfLLnGDPVDALSmIVfRDnAYAKRRlCIEKLrDnIPRnLfEIPVQAAIGGKIIAREtVKAmR
--LVKLDILInKEEVDALsfIIHKDtAYERGRKMcEKLKDEIPRHlFEIPIQAAIGGKVIAREtVKAmR
--LVKLDILInKEEVDALsfIIHKDtAYERGRKMcEKLKEEIPRHlFEIPIQAAIGnKVIAREtVKAmR
--LVKLDILInKEEVDALsfIVfEGSAYERGRKMcEKLKEEIPRQlFEIPIQAAVGSKIIAREtVKAmR
--LVKLDILInKEEVDALsfIVfSSAYERGRKMcEKLKEEIPRQlFEIPIQAAVGSKIIAREtVKAmR
--LVKLDILInKEEVDALsfIVHADtAYERGRKMcEKLKEEIPRHlFEIPIQAAIGSKVIAREtVKAmR
--LVKLDILInKEEVDALsfIVHADtAYERGRKMcEKLKEEIPRHlFEIPIQAAVGSKIIAREtVKAmR
--LVKLDILInKEEVDALsfIVHAETAYERGRKMcSKLKEEIPRHlFEIPIQAAVGSKIIAREtVKAmR
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>tr!D9TP81_THETC-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C9KWD8_9BACE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B6J4K1_COXB1-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D9ZZ51_9THEO-GTP-binding-protein-LepA-(Fragment)-[lepA]-[Thermoanaerobacter-----
>sp!A4XKA0!LEPA_CALS8-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F9ZRF2_AC1CS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A3XRE9_LEEBM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G0J1D3_CYCMS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B7DNC8_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E4MIZ7_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q97J6!LEPA_CLOAB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C4YU23_9RICK-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A2HBG1_ENTFC-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A8PN34_9COXI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F6BH01_THEXL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B7R963_9THEO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B7AQ05_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!C4Z9E3!LEPA_EUBR3-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G2T2A2_ROSHA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D5XA00_THEPJ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q8RB72!LEPA_THETN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B9MJ25!LEPA_ANATD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q3AF13!LEPA_CARHZ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!Q1VRB5_9FLAO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A9ZJ72_COXBU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C7TD04_LACRG-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F6GFR3_LACS5-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!P60789!LEPA_GEOSL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q39US7!LEPA_GEOMG-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F4LSH2_TEPAE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E5YU74_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q11UD0!LEPA_CYTH3-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F7KN96_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F7YZ31_BACCO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A1ZJ08_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B0MPH0_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E6U8T6_ETHHY-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D3E4Y9_GEOS4-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4HE00_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C7ITD2_THEET-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q2IIA6!LEPA_ANADE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4EB24_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D1YR41_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F3M622_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C6CTR7_PAESJ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E2ZPF7_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C7H2W3_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D9ZZB5_9THEO-GTP-binding-protein-LepA-(Fragment)-[lepA]-[Thermoanaerobacter-----
>tr!D0TP94_9BACE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B9ZY03_UREUR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4NXA9_BACPN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E0RI56_PAEP6-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F3B787_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E5VSW0_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C0BVT8_9CLOT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----

--LVKLDILInKEEVDALSfIVHGESAYERGRMcEKLKDEIPRHLfEIPiQAAVGSKVIAREtVKAmR
--LVKLDILInKEEVDALSfIVHGStAYERGRMcEKLKEEIPRQLfEIPiQAAVGSKIIAREtVKAmR
--LVKLDILInKEEVDALSfIVHSGtAYERGRMcEKLKEEIPRQLfEIPiQAAIGSKVIAREtVKAmR
--LVKLDILInKEQVDALSfIVfKDSAYDRGRMcERLKEEIPRHLfEIPiQAAVGGKVIAREtVKAmR
--LVKLDILInKEQVDALSfIVfKDSAYERGRMcEKLKEEIPRHLfEIPiQAAVGGKVIAREtVKAmR
--LVKLDILInREEVdALSfIVfKGSAYDRGRMcEKLKEEIPRHLfEIPiQAAVGGKVIAREtVKAmR
--LVKLDILInREEVdALSfIVHRDSAYERGRMcEKLKDEIPRHLfEIPiQAAVGGKIIAREtVKAmR
--LVKLDILInREEVdALSfIVHSAtAYERGRMcEKLKQEIIPRQLfEIPiQAAIGSKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPPEERAYHKRGIAEKLKEIIPRQLfEIPiQAAVGSKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPKERAYARGRGIAEKLKEIIPRQmfEVPiQAAVGSKVIAREtVKAmR
--LVKLDILInGDIVDALSmIVPEVKAYQRGIAEKLKEIIPRHLfEVPiQAAVGSKIIAREtVKAmR
--LVKLDILInGDIVDALSLIVHADSAAYARGRLAaKREIIPRQmfEVAIQAAIGnKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPDERAYHKRGIAEKLKEIIPRQmfEVPiQAAIGSKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPDERAYSKRGIAEKLKEIIPRQmfEVPiQAAIGSKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPEERAYHKRGIAEKLKEIIPRQLfEIPiQAAVGSKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVHDtAYDRGRMcEKLKEEIPRQLfEIPiQAAVGSKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVHtDKAYPRARRIAEKLKEQIPRQLfEVPiQAAVGGKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPEERAYERGRGIAEKLKEIIPRQLfEIPiQAAIGGKIIAREtVKAmR
--LVKLDILInHEEVdALSfIVHAGtAYERGRMcEKLKEEIPRQLfEIPiQAAIGSKIIAREtVKAmR
--LVKLDILInKEEVDALSfIVfAGSAYERGRMcEKLKEEIPRQLfEIPiQAAVGSKIIAREtVKAmR
--LVKLDILInKEEVDALSfIVHADtAYDRGRMcEKLKEEIPRQLfEIPiQAAVGSKIIAREtVKAmR
--LVKLDILInKEEVDALSfIVHAESAYDRGRMcEKLKEEIPRQLfEIPiQAAVGGKIIAREtVKAmR
--LVKLDILInKEEVDALSfIVHALSAYDRGRMcEKLKDEIPRQLfEIPiQAAIGGKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPREKAYEKGRGIAEKLKEIIPRQmfEVPiQAAVGSKIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPEERAYHKRGIAEKLKEIIPRQmfEIPiQAAVGAkIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPEERAYnKGRAIAEKLKEIIPRQmfEIPiQAAVGAkIIAREtVKAmR
--LVKLDILInGDIVDALSmIVPEESAYnKGRAIAEKLKEIIPRQmfEIPiQAAVGAkIIAREtVKAmR
--LVKMDILInGDIVDALScIVHSERAYtRGRALVEKLRLSIPRQmfEIPVQAAIGnKIIAREtVKAmR
--LVKVDILInGDIVDALSLfIAHKDKAYGRARKIcEKLKEIIPRQLfEVPiQAAIGGKIIAREtVKAmR
--LVKVDILInGDIVDALSLfIAHRDKAYPRARRIcEKLKDEIPRQLfEIPiQAAIGGRVIAREtVKAmR
--LVRLDILInGDIVDALSmIVfSDnAYAKGRRIcEKLKEIPRALfEIPiQAAVGSKIIAREtVKAmR
--LVRLInImInGEVVDALSLIIHKDKAYYRGRELVSkmKELIPRQmfEIAIQAAVgtKVIAREtVKAmR
--LVRMdVmInGEVVDALStVVRDRAYHRGRALVEKLKDLIPRQLfEVPiQAAIGGRVIAREtVKAmR
--LVRMmVmInGEVVDALSLILHRDKAYYRGRLDVSkmKELIPRQmfEVAIQAAIGnKIIAREtVKAmR
--mIKLDVmlnGDGVDALSIVHRTKAYEwGKLLcEKLRELIPRQmfEIAIQAAIGQKIIAREtVKAmR
--mVKLDVmlnGEAVDALSAIVHRSKSYEWgKLLcEKLRELIPRQmfEIAIQAAIGQKIIAREtVKAmR
---VKLDILInREEVdALSfIVHADSAAYDRGRMcERLKEEIPRHLfEIPiQAAIGGKIIAREtVKAVR
---VKLDILInREEVdALSfIVHADSAAYERGRMcEKLKDEIPRHLfEIPiQAAIGGKIIAREtVKAVR
---VKLDILInREEVdALSfIVHADSAAYERGRMcERLKEEIPRHLfEIPiQAAIGGKIIAREtVKAVR
---LAKLDILInGEPVDALSSLIYADHAYdfGRMcEKLKELIPRQFDIAIQAAIGAKIIAREtVKAVR
---LAKLDILInGEPVDALSSLIYHEHAYdfGRMcEKLKELIPRQFDIAIQAAIGAKIIAREtVKAVR
---LQKLDILInKEEVDALSfIVHADSAAYERGRMcEKLKDEIPRHLfEIPiQAAIGGKVIAREtVKAVR
---LVKLDILInREtVDALSfIVHSStAYERARKIcEKLKEEIPRHLfEIPiQAAIGSKIIAREtVKAVR
---LVKLDILInGEPVDALSSLIYtDHAYdfGRMcEKLKELIPRQFDIAIQAAIGAKIIAREtVKAVR
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---LVKLDILInGEPVDALStLHfDnSVPfGRMcEKLKELIPRQFDIAIQAAIGAKIIAREtVKAVR
---LVKLDILInGAVDALSmIVPQEKAYQRGKAIvDKLktIIPRQLfEIPiQAAIGAKIIAREtVKAVR
---LVKLDILInGnPVdALSfIVHKSAYQRGKAIvDKLktIIPRQLfEIPiQAAIGAKIIAREtVKAVR
---LVKLDILInGnPVdALSfIVHKSAYQRGKAIvDKLktIIPRQLfEIPiQAAIGAKIIAREtVKAVR
---LVKLDILInGnPVdALSfIVHKSAYDRGRMcEKLKDEIPRHLfEIPiQAAIGGKIIAREtVKAVR
---VkmDILInGDPVDALSIIVHKDRAAARGRALAEKLKELIPRQmfEIPiQAAVgtKIVAREtVKAwR
---VkmDILInGDPVDALSIIVHKDRAAARGRALAEKLKELIPRQmfEIPiQAAVgtKIVAREtVKAwR
---VkmDILInGDPVDALSIIVHKDRAAARGRALAEKLKELIPRQmfEIPiQAAVgtKIVAREtVKAwR
---VkmDILInGDPVDALSIIVHKDRAAARGRALAEKLKELIPRQmfEIPiQAAVgtKIVAREtVKAwR
---VkmDILInGYPVDALSIIVHKDRAAARGRALAEKLKELIPRQmfEIPiQAAVgtKIVAREtVKAwR
---LkMDILInGnIVEElvTVHREKAYtVgKSIcERLKDSLPRQLfEIAVQAAIGSKVIAREtVKAYR
---LVKLDILInGDIVDALSmIVHSEKAYSRRRIAEKLKDtIHKQOFEIPiQACIGGKIIAREtVKAYR

>tr!A4EC61_9ACTN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F0YXR0_9CLOT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G2RY08_BACME-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C0FZB7_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D6LGN9_9FUSO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F7V5V0_CLOSS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F7KB10_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F7JJK0_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A1VFR1_DESVV-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F0KCN9_CLOAE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B5EB36!LEPA_GEOBB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E6W3R4_DESIS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C4IDG6_CLOBU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B2V211_CLOBU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A6LRM9_CLOB8-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D4KA13_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D8GP16_CLOLD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D9YA70_9DELt-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F3PAF1_9ACTO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C0CK36_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D3ATC5_9CLOT-GTP-binding-protein-LepA-[CLOSTHATH_06884]-[Clostridium-hathewayi-
>tr!D9R661_CLOSW-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C1I2F2_9CLOT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B1V754_CLOPE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!A0Q1R8!LEPA_CLONN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F9ENE2_FUSNU-GTP-binding-protein-LepA-[lepA]-[Fusobacterium-nucleatum-subsp.-
>sp!A4J7F8!LEPA_DESRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F4XFE0_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4L215_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D7ITC1_9BACE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!C6DZ67!LEPA_GEOSM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F8I910_SULAT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!A1ARG8!LEPA_PELPD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q5LC85!LEPA_BACFN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C6VWS2_DYAFD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G5HSF9_9CLOT-GTP-binding-protein-lepA-[HMPREF9469_05521]-[Clostridium-citroniae-
>tr!G5I7B1_9CLOT-GTP-binding-protein-lepA-[HMPREF9467_04644]-[Clostridium-
>tr!C5EQB4_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B5BNC6_UREUR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A9WGU4_CHLAA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G5GHA8_9FIRM-GTP-binding-protein-lepA-[HMPREF9333_00948]-[Johnsonella-ignava-
>tr!E5BFW7_9FUSO-GTP-binding-protein-lepA-[FSBG_00495]-[Fusobacterium-sp.-3_1_5R]-----
>tr!E4MF29_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D6LC01_9FUSO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F4KL35_PORAD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G2IDY7_9CLOT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F9VKQ0_ARTSS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C0CYZ5_9CLOT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E4LCW2_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F5KYH0_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F9N379_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E1WPK5_BACF6-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D1BMF1_VEIPT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F7A0N4_MONDO-Uncharacterized-protein-(Fragment)-[GUF1]-[Monodelphis-domestica-
>tr!E1K961_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----

--LVKLDILVnKEEVDALsfIVHADtAYERGRKmcEKLKEEIPRQLfEPIQAAIGGKIIAREtVRAmR
--LVKLDILVnKEEVDALsfIVHADtAYERGRKmcEKLKEEIPRQLfEPIQAAIGGKIIAREtVRAmR
--LVKMDILInRESVDALsfIIVKEGAYERAKKmcEKLKnEIPRQLfEVPVQAAIGGKIIAREtVRAmR
--LVKVDmLVnGDQVDALsfIAHKDKAYGRARRLcEKLKDNIPRQLfEVPVQAAIGGKIIAREtVRAmR
--LVKLDILInKEEVDALsfILHQDtAYERGRKmcEKLKQEIPIRHlfEPIQAAIGnKVIAREtVRAVR
--LVKVEVLVAGDPVDSLsIIVHRDKAYQRGRALVEKLKELIPRQOfEVPVQAAVGRVVIAREtVRAVR
--LVKLDVLLnGETIDALsfItHKDKAYHRGRQLVEKmkELIPKQmfEVAIQAAIGKRVVIAREtVSA
--LVRLDILLnGEPVDALAVIHRDKAYtYGRSLALKLKRRtIPRQLfQVAIQAAIGQKIIAREtVSAfr
--LVRLDILLnSEPVDALAVIHRDRAYtYGRSLALKLKRRtIPRQLfQVAIQAAIGQKIIAREtVSAfr
--LVRLDImLnSEPVDALAVIHRDRAYtYGRSLALKLKRRtIPRQLfQVAIQAAIGQKIIAREtVSAfr
--LVKLDILLnGEVVDALStIVHRDKAYARGRAIAEKLKKEVIPRQLfEPIQAAIGQKIIAREtVSAfr
--LVRLDILVnGEAVDALSSItHRDKAARRGRDmcARLKEALPRQLfEVAVQAAVSGKVVAREtVSAfr
---VKmDILLnGDAVDALSIITHKDFaQrGRALVSKmRELIPRQmfEVAIQAAIGSKVIAREtVtAIR
--LVKLDILLnGQAVDAmAtIVHnKSYRVRGRELVEKLKKEVIPRQmfEPIQAAIGSKVIAREtVtAmR
---LQKMDILLnGEIVDALSLIVHHDfAYERGKAIEKLKKEIPRQmfEPIQAAIGGKIIAREtVtAmR
--LVKMDILLnGDIVDALsfIfPKEKAItrGRVtIcKKLKEtIPRQmfEPIQAAIGnKVIARQtLSALR
---VKVDVLLnGDRVDALAIcHSDHAYGRGRALIEKmkDLIPRQmfDVAIQAAIGAHIIARQtVKALR
--LVKMDILLnSERVDALAVIHRDSAHSRGKLIAEKmQQLIPRQmfDVAIQAAIGSHIIARQtVKALR
--LVKMDILLnSERVDALSVIHRSSHSRGGKIIAEKmkDLIPRQmfDVAIQAAIGSHIIARQtVKALR
--LVKMDILLnSERVDALSVIHRSSAHSRGKLIAEKmKDLIPRQmfDVAIQAAIGSHIIARQtVKALR
--LVRVDVLLnGDKVDALAmIcHLDQsAYRGRALcEKmKELVPRQmfDVAIQAAIGGKIIARQtVKALR
---QKLDILLSGKPIDALsfIVHKDKAYDRGRVlcEKLKDIIPRQLfEVPVQAAVGGRIARQtVRAKR
---QKLDILLSGKPIDALsfIVHKDKAYDRGRVlcEKLKELIPRQLfEVPVQAAVGGRIARQtVRAKR
--LVKMDILLnAEKVDALsfIVHRDFAYERGKAIVEKLKLLIPRQOfEVPVQAAIGQKIVARSDIKALR
--LVKMDILLnGDKVDALsfIVHKEfAYERGKIIIVEKLKLLIPRQOfEVPVQAAIGQKIVARSDIKALR
--LVKMDILLnGDKVDALsfIVHKEfAYERGKIIIVEKLKLLIPRQOfEVPVQAAIGQKIVARSDIKALR
--LVKMDILLnGDKVDALsfIVHRDFAYERGKAIVEKLKLLIPRQOfEVPVQAAIGQKIVARSDIKALR
---VKMDILLnGKVDALsfIVHRDFAYERGKtIIVERLKElIPRQOfEVPVQAAVGGKIIARStIKALR
---VKMDILLnGdtIDALsfVHRDFAYERGKQIVEKLKELIPRQOfEVPVQAAIGnKVIARStIKAVR
--LVKLDILInGKPVDAISVIVHESKAYQRGRQLVDKLKEIIPRQLfEVAIQAAIGnKIIARStIKALR
---VKVDVLLnGERVDAISIIthRDQAQRGRELteRmSLLIPRQmfEVAIQAAIGSKIIARStIKAmR
--LVKMDILLnAEKVDALsfIVHKEfAYERGKVIIVEKLKELIPRQOfEVPVQAAIGQKIVARStIKAIR
--LVKMDILLnGKVDALSVIHRDSAYERGKVIIVEKLKELIPRQOfEVPVQASIGtKIIARStIKAIR
--LVKMDILLnGKVDALsfIVHRDFAYDRGKIIIVEKLKELIPRQOfEVPVQAAIGQKIVARStIKAIR
--LVKMDILLnGKVDALsfIVHRDSAYDRGKIIIVEKLKELIPRQOfEVPVQAAIGQKIVARStIKAIR
---VKLDILVnGEPVDALStIVHRDLAQVRGRELteRLKSIIPRQmfEVAIQAAVGSRIARStIKALR
---VKMDILLnGEIVDALStIVHRDFafnRGAItEKLRLtIPRQOfEVPVQAAInQVIARStIKALR
---VKMDILLnGKIDALsfIVHRDSAYERGKAIVEKLKDLIPRQOfEVPVQAAIGnKVIARStIKALR
---VKMDILLnGKIDALsfIVHRDSAYERGKVIIVEKLKDLIPRQOfEVPVQAAIGnKIIARStIKALR
--LVKMDILLnGEIVDALSLIVHHDfAYERGKVIIVEKLKDLIPRQOfEVPVQAAIGGKIIARStIKALR
--LVKMDILLnGKIDALsfIVHRDSAYERGKVIIVEKLKDLIPRQOfEVPVQAAIGnKIIARStIKALR
--LVKMDILLnGKVDALsfIVHRDSAYDRGKVIIVEKLKDLIPRQOfEVPVQAAIGnKIIARStIKALR
---VKMDILLnAEQIDALSVIHRDSAYQRGKAIVEKLKELIPRQOfEVPVQASIGQKIIARStIKAmR
---VKMDILLnGESIDALSVIHRDSAYERGKIIIVEKLKELIPRQOfEVPVQASIGtKIIARStIKAmR
---VKMDILLnGKVDALSVIHRDSAYERGKVIIVEKLKDLIPRQOfEVPVQAAIGtKIIARStIKAmR
---VKMDImLnGKIDALsfIVHRDYAYERGKIIIVEKLKELIPRQhfEVPVQAAIGQKIVARStIKAmR
--LVKMDILLnAEKVDALsfIVHRDFAYERGKVIIVEKLKDLIPRQOfEVPVQAAIGQKIVARStIKAmR
--LVKMDILLnGKVDALSVIHRDSAYDRGKIIIVEKLKELIPRQOfEVPVQASIGQKVIARStIKAmR
--LVKMDILLnGKVDALsfIVHRDSAYDRGKVIIVEKLKELIPRQOfEVPVQAAIGnKVIARStIKAmR
--LVKMDILLnGQVDALsfIVHRDSAYDRGKVIIVEKLKELIPRQOfEVPVQAAIGnKVIARStIKAmR
--LVKMDILLnGQVDALSVIHRDSAYERGKVIIVEKLKDLIPRQOfEVPVQAAIGnKVIARStIKAmR
--LVKMDImLnGKIDALsfIVHRDYAYERGKVIIVEKLKELIPRQhfEVPVQAAIGQKIVARStIKAmR
--LVKMDImLnGKIDALsfIVHRDYAYERGKVIIVEKLKELIPRQOfEVPVQAAIGtKVIARStIKAmR
--LVKIDILLnGDKVDALsfIVHRDFaQERSRVItKKLKEIIPRRnfEIPVQAAIGSKIVARStIKAYR

>tr!C9RUX1_GEOSY-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D4LUT6_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C4G6T8_ABIDE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A6NQH2_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B0MCH4_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q31R08!LEPA_SYNE7-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D2MJL6_9BACT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G1UUG4_9DELTA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B6WV93_9DELTA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B8J444!LEPA_DESDA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F4A0N3_MAHAA5-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C5NVE3_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E8WZU4_ACISM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G7KZV0_MEDTR-GTP-binding-protein-lepA-[MTR_7g009740]-[Medicago-truncatula-----
>sp!P60792!LEPA_ONYPE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G0DWT5_PROAA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E5V310_9BACL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B0G870_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C6N726_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D3HRV6_LEGLN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q0VP16!LEPA_ALCBS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D5N5V2_BACPN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C7QM89_CYAP0-GTP-binding-protein-LepA-[Cyan8802_3577]-[Cyanotheca-sp.-(strain-----
>tr!G5IST8_9ENTE-GTP-binding-protein-lepA-[HMPREF9478_01382]-[Enterococcus-----
>sp!B5XLC6!LEPA_STRPZ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G6GMK4_9CHRO-GTP-binding-protein-LepA-[Cy51472DRAFT_0217]-[Cyanotheca-sp.-ATCC-----
>tr!Q3XZE8_ENTFC-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4P381_BACSU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q8CXD0!LEPA_OCEIH-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F0S0H4_DESTD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4E7N0_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F3IF16_PSESL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q5WHG5!LEPA_BACSK-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A6CQZ3_9BACI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C5AX80_METEA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D5TEC4_LEGP2-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A4BRZ1_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F5WS09_ERYRF-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q5KWZ3!LEPA_GEOKA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!A5CE57!LEPA_ORITB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F0HI22_9FIRM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D5DMP7_BACMD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B7GKC4!LEPA_ANOFW-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E6TW24_BACCJ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E1PSF3_MYCFJ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q8XIS6!LEPA_CLOPE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C9LCK5_RUMHA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!Q2B0M1_9BACI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D3FXK6_BACPE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!A7GT14!LEPA_BACCN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!Q4MJK6_BACCE-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E3DZ86_BACA1-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!P37949!LEPA_BACSU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q65H50!LEPA_BACLD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C6NRW6_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----

--LVKIDILLnGERVDALsfIVHRDfAQERGRfIttKLDLIPRRnFEPVQAAIGSKIIARStVKAYR
--mVKLDILInGEPVDALSIIVHRDQAYYKGRDLVEKmkKEVIPRQmfEVAIQAAIGnKVIARStVKafr
---SRLDVLInGDRVDALAVIHRDHAHSRGRALVEKmkKELIPRQmfDVAIQAAIGGQVVARStVKALR
---VRLDVLInGDKVDALAVIHRDQAYYKGRDLVEKmkKELIPRQmfEVAIQAAIGGQVVARStVKALR
---VRLDVLInGDKVDSLSSIIVHRDHAQYKGRDLVEKmkKELIPRQmfEVAIQAAIGnQVIARStVKALR
---VRVDILInGERVDALSVILHRDQAQrGRELrERmCGIIPRQmfEVAIQAAIGSKVIARStVKALR
--LVKLDILInGKPVDAISVIVHRDKAYQRGRQLVDKLKEIIPRQLfEVAIQAAIGnKIIARStVKALR
--LVKLDVLInGDKVDSLSSIVHRSLSQNRGRDItERmKDLIPRQmfEVAIQAAIGSKIIARStVKALR
--LVKVDVLInGDKVDALAVIHRDQAQSRGRELrDKLKEIIPRQmfEVAIQAAIGnHVIARStVKALR
--LVRLDVLInGEPVDALAVIHRDQAQYKGRDLVEKmkKEIIPRQmfEVAIQAAIGnHVIARStVKALR
--LVRLDVLInGDKVDALAVIHRDQASQHGmGRQLVEKmkKDLIPRQmfDVAIQAAIGGQVVARStVKALR
--LVRLDVLInGDKVDALAVIHRDHAHnRGRLLVEKmkKELIPRQmfDVAIQAAIGGQVVARStVKALR
--LVRLDVLInGDRVDALAtIVHRDHAHPRGRALVEKmkKELIPRQmfDVAIQAtLGGQVVARStVKALR
--mVRLDVLInGDKVDALAVIHRDQAYYKGRDLVEKmkKELIPRQmfEVAIQAAIGGQVVARStVKALR
---IKLDILInGKVDALSIIVHRDIsnGRDLVEKmkKDLIPRQmfEVAIQAAIGSKIIARStVKAmR
---VKLDLILInGKVDALSLIVHRDIsnmnRGRDLVEKmkKDLIPRQmfEVAIQAAIGSKIIARStVKAmR
---VKLDVLInGDKVDALSIIVHRDLSQNRGRDLVEKmkKDLIPRQmfEVAIQAAIGSKVIARStVKAmR
---VKLDVLInGDKVDALSVIVHRDQASQSRGRDLVEKmkKDLIPRQmfEVAIQAAIGAKIIARStVKAmR
---VRVDILInGERVDALSGIVHRDHAESRGRELrERmAKIIPRQmfEVAIQAAIGSKIIARStVKAmR
--LVKLDVLInAEKVDALSIIVHRDLSnRGRDLVEKmkKDLIPRQmfEVAIQAAIGSKVIARStVKAmR
--LVKLDVLInGDRVDALSnIVHRDHSYHRGRALVEKmkKELIPRQmfEVAIQAAIGGQVVARStVKAmR
--LVRLDVLInGAVDALAHIVHRDKAYDRGKALVEKmkKIVPRQmfDVAIQAAIGtRIVARStVKAmR
--LVKLDILLSGDEVDALsfIVHKDKAYGLARGLcDKLKEIIPRQLfEVPiQGAIGnKIIARStVKARR
--LVKLDILLSGDEVDALsfIVHKDKAYSLARGLcDKLKEIIPRQLfEVPiQGAIGnKIIARStVKARR
--LVKLDILInKEPVDALSIIVHKDnAYYKGRDLVDEKmkKELIPRQmfDVAIQAAIGnKVIARStVKAYR
--LVKMDILInGDPVDALStIVHKDfAferGKAIVARLkttIPRQOFEVPIQAAIGnKVIARStVKAYR
--LVKMDILInGDPVDALStIVHKDfAferGKAIVARLkttIPRQOFEVPIQAAIGnKVIARStVKAYR
--LVKMDILInGDPVDALStIVHKDfAferGKAIVARLkttIPRQOFEVPIQAAIGnKVIARStVKAYR
--mVKLDILInKEPVDALSIIVHRDQAYYKGRDLVEKmkKELIPRQmfDVAIQAAIGnKIIARStVKAYR
--LVKVNILVnGEPVDALafIAHRDQAQIGRAIVEKLDVIPRQOFAVPIQAAIGGKIIARStVRALR
--LVKMDILInGERVDALSLVHKDRARERARVAcEKLKEEIPRQmfEVAIQAAIGAKIIARStVSAfr
--LVKMDILInGdVdALsfIVHKDfAferGKLIIVEKmkKELIPRQOFEVPIQAAIGHKIVARtDIKALR
---VKLDLILInGDKVDALALIVHKDnAHYKGRQLtEKmkKELIPRQmfDVAIQAAIGGQIIARtSVKALR
---VKLDVLInGDKVDALALIVHKDnAHYKGRQLtEKmkKELIPRQmfDVAIQAAIGGQIIARtSVKALR
---LVKLDILLSGQVVDALAtIVHRDLAYtRGRELrERLKEIIPRQmfEVAIQAAIGAKIIARtSVKALR
---LQKMDILInGAVDdALStIVHKDfAYSRGKIIEKmkKELIPRQmfEVPiQAAIGKIIARtIKAmR
---LQKMDILInGAVDdALStIVHKDfAYSRGKIIEKmkKELIPRQmfEVPiQAAIGKIIARtIKAmR
---VKLDLILInGEPVDALSIIVHKDfAferGKAIAAKLKEIIPRQmfEVPVQAAIGKIIARtIKAYR
---VKLDILLSGEPVDALStIVHRDfAYDRGRKLAELKKEVIPRQmfEVPVQAAIGnKIIARtIKAYR
---VKLDILInGKVDALSIIVHKSQADSRGRDLtAKmkKEIIPRQmfEVAIQAAIGSKIIARtVKALR
---VKLDILInGKVDALSIIVHKSQADSRGRDLtAKmkKEIIPRQmfEVAIQAAIGSKIIARtVKALR
---VKLDVLInAEKVDALAVIHRDnAHYKGRALtEKmkKELIPRQmfDVAIQAAIGGQIVARtVKALR
---VKLDVLInGDKVDALALIVHRDKAHQGRALtEKmkKELIPRQmfDVAIQAAIGGQVVARtVKALR
---VKLDVLInGDKVDALALIVHRDnAHYKGRALtEKmkKELIPRQmfDVAIQAAIGGQIIARtVKALR
---VKLDVLInGDKVDALALIVHRDnAHYKGRQLtEKmkKDLIPRQmfDVAIQAAIGGQIVARtVKALR
---VKLDVLInGKVDALALIVHRDnAHYKGRALtEKmkKELIPRQmfDVAIQAAIGGQIVARtVKALR
---VKLDVLInGKVDALALIVHRDnAHYKGRQLtEKmkKELIPRQmfDVAIQAAIGGQIVARtVKALR
---VKLDVLInGKVDALALIVHRDnAHYKGRALtEKmkKELIPRQmfDVAIQAAIGGQIVARtVKALR
---LTKLDVLInGDKVDSLSSIVHRAQSQSRGREVtERmKELIPRQmfEVAIQAAIGtKIIARtVKALR
--LVKLDILInGDKVDSLSSIVHRSLSQSRGRDvtERmKEIIPRQmfEVAIQAAIGSKVIARtVKALR
--LVRmDILInGDKVDALAVILHRDnAQFRGRQLcEKmkKEVIPRQmfDVAIQAAIGGKVIARtVKALR
--LIKLDmLVnGDPDLDAISVIVHRDKAYARGRDLVAVLKLKIVPRQOFEVAIQAAIGSKVIARtVKAmR
--LVKLDILInGDKVDSLSSIVHRAAQYtRGHDVtVrMKDLIPRQmfEVAIQAAIGSKIIARtVKPLR
---VKLDIQInGDPVEALStIVHRDKAYSVGRALtQKLEIIPRQmfRVPIQACIGAKVIASEALS AIR
--LIKLDILInAEmvEPLStIVHRDKAYSVGRALtQKLEIIPRQmfKVPiQACIGSKVIASEALS AIR
---VKLDILVnGDSVDALAmIVHRDKAYYVGRALtEKmkKELIPRQmfKVPiQAAIGSKVIASEHIPALR

>tr!F8I0C7_WEIKK-Elongation-factor-4-2-(EC-3.6.5.n1)-(EF-4-2)-(Ribosomal-----
>tr!E4THG5_CALNY-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F4BIF3_FRACN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!A0Q453!LEPA_FRATN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C8N8P7_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4DJ67_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E8T458_THEA1-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D3RT24_ALLVD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!A7Z6W5!LEPA_BACA2-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C7RA53_KANKD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B3PLG4!LEPA_CELJU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F8G399_PSEPU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q1QX26!LEPA_CHRSD-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B0TW33!LEPA_FRAP2-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!Q1RIY3_RICBR-GTP-binding-protein-LepA-[RBE_0600]-[Rickettsia-bellii-(strain-----
>sp!Q608M4!LEPA_MEFCA-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F9ZWW1_METMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F5VA33_MEFAL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D3SBU1_THISK-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G3ISF8_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!A1WT19_HALHL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F7QDT1_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!C5UP89_CLOBO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B6GCG4_9ACTN-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E0U4R5_BACPZ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q038N6!LEPA_LACC3-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B3WEQ5!LEPA_LACCB-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G6CGA3_LACCU-GTP-binding-protein-LepA-[lepA]-[Lactobacillus-curvatus-CRL-705]-----
>sp!B9KIB5!LEPA_ANAMF-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E8WTS3_GEOS8-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!E1YDS8_9DELT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F9MAJ2_9STRE-Elongation-factor-4-2-(EC-3.6.5.n1)-(EF-4-2)-(Ribosomal-----
>sp!P26843!LEPA_PSEFL-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!C3K6G8!LEPA_PSEFS-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q83BK3!LEPA_COXBU-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!B6FJK5_9CLOT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!D0BPH9_9FUSO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F8CTU6_BACTR-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F5XAN5_PORGT-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G7U8T6_PROAA-GTP-binding-protein-LepA-[TIIST44_10145]-[Propionibacterium-acnes-----
>tr!G2FE87_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q4ZPD8!LEPA_PSEU2-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!C1DQSO!LEPA_AZOVd-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B1J4D8!LEPA_PSEFW-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!F6AA61_PSEF1-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q87XF8!LEPA_PSESM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!P0DC23!LEPA_STRPQ-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G2Z088_9FLAO-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G2DZA0_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!Q7PBA0_RICSI-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!A9GWZ4!LEPA_SORC5-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>tr!G4DQ27_9GAMM-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!B1WWD8!LEPA_CYAA5-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----
>sp!Q9FNM5!GUPF_ARATH-Translation-factor-GUP1-homolog,-chloroplastic-precursor-(EC-----
>sp!B7K327!LEPA_CYP8-Elongation-factor-4-(EC-3.6.5.n1)-(EF-4)-(Ribosomal-----

--LVKLDImVnGDVVDALAmIVHRDKAYnVGRALtEKLKELIPRHQfKVPiQAAIGAKIIASESHIPALR
--LVKLDImVnGDPVDALAmIVHRDKAYyVGRALtEKLKELIPRHQfKVPiQAAIGSKIIASESHIPALR
--LVRmDILInSEPVdPLatIVHRDKAYyVGRALtEKLKELIPRHQfKIPIQAAIGSRVIASESIPALR
--LVRDLVLIInGEKADPLttIVHRDKAYGVGKSLVtEKLKELIPRQfKIPIQASIGSRVIASESISAmr
--LIKLDIqInGERVEPLatIVHKDKAYAVGRALtQKLKELIPRQmfKVPiQAcIGAKVIASESISAIR
--LIRLDIqInGDPVdPLatIVHKDKAYSVGRALtQKLKELIPRQfKVPiQAcIGAKVIASESISAIR
---VKVDILInSQSVdALSALIHADnAYnIGKKmceKLRLELIPRQfDIPIQAAIGAKIISREtIKALR
--LVKLDILInGEQIDALSfIVHESKAYSrGKmcEKLKDEIPRHQfPIPIQAAVGNkVVISREtIKALR
--LVKVDILInASPVdALSALIHtDnAYSIGKKmceKLRQLIPRQfDIPIQAAIGAKIISREtIKALR
--LVRVDILInAQPVdALSALIHfDnAQnIGKKmceKLRLELIPRQfDIPIQAAIGAKIISREtIKALR
--LVRVDILInAQPVdALSALVHfDnAYDIGKRmceKLRLELIPRQfDIPIQAAIGSKIISREtIKALR
--LVRVDILInAQPVdALSALVHfDnAYHIGKKmceKLRLELIPRQfDIPIQAAIGSKIISREtIKALR
--LVRVDILInAQVdALSALIHfDnAYtIGKKmceKLRLELIPRQfDIPIQAAIGAKIISREtIKALR
--LVRVDILInSQPVdALSALIHADnAtnIGKKmceKLRQLIPRQfDIPIQAAIGAKIISREtIKALR
---VkmDILInGEQVdALSfIVHREfAYQRGKVIVtEKLKELIPRQfEPIQAAIGnKIISREtIKAmr
--LVKLDVLInGQVVDALSfIVHRDQAYSrGKALVEKLKELIPRQLfEPIQAAIGSRVVISREtIKAmr
--LIKLDILInGEPVDALStLthfDnAYDLGHRmceEKLKDLIPRQfDIAIQAAIGAKIISREtIKAVR
--LIKLDILInGESPVDALSfIVHVDnAVSLGKRmceEKLKELIPRQfDIAVQAAIGAKIISREtIKAVR
--LVKLDILInGEPVDALStLthfDnAYDLGKRmceEKLKDLIPRQfDIAIQAAIGAKIISREtIKAVR
--LVKLDILInGEPVDALStLthfDnAYDLGRRmceEKLKDLIPRQfDIAIQAAIGAKIISREtIKAVR
--LVKLDILInGEPVDALStLthIDnAYDmGRRmceEKLKELIPRQfDIAIQAAIGAKIISREtIKAVR
--LVKLDILInGEPVDALStLthVDnAYnLGKRmceEKLKELIPRQfDIAIQAAIGAKIISREtIKAVR
--LARLDILInGDPVDALSVIVHRERAYLRGREVcQKLKEVIPKQmYEVAIQAAIGAKIISREtISAIR
--LVKLDVLLnGEPVDALStVHRSKAYEwGRKLCQKLKtIIPKQmYEVAIQAAIGSRVVISREtISAIR
--LARLDILInGDPVDALSVIVHRERAYLRGREVcQKLKEVIPKQmYEVAIQAAIGAKIISREtISAIR
--LVKLDVLLnGdTvDALSfIVHRSKAYDwGKLCIKLKAIPKQmYEVAIQAAIGSKVVISREtISAIR
--LVKLDVLLnGEPVDALSfIVHRSKAYDwGRKLCGLKGIIPKQmYEVAIQAAIGSRVVISREtISAIR
--LVKLDVLLnGEPVDALSfIVHRSKAYEwGRKLCQKLKGIIPKQmYEVAIQAAIGSRVVISREtISAIR
--LVKLDVLLnGdTvDALSfIVHRSKAYEwGKLCQKLKGIIPKQmYEVAIQAAIGAKIISREtISAIR
--LVRVDILInAQPVdALSALIHADnAVHIGKRmceEKLKELIPRQfDIPIQAAIGAKIISREtIKALR
--LVRVDILInAQPVdALSALIHADnAVnIGKRmceEKLKELIPRQfDIPIQAAIGSKVVISREtIKALR
---VKVDILInGEKVDALSfIVHRDnAYSrGKVLVErLRKIIDRQfDIAIQAAIGAKIISREtVKALR
--LVKVDVLLnGnKVDALSfIVHRDnAYSrGKVLVErLRKIIDRQfDIAIQAAIGAKIISREtVKALR
--LVKVDVLLnGnVVDALSfIVHRDnAYSrGKVLVErLRKIIDRQfDIAIQAAIGAKIISREtVKALR
--LVRVDILInGQAVdALSfIVHRDnAYSrGKVLVErLRKIIDRQfDIAIQAAIGAKIISREtVKALR
--LVKVDVLLnGQPVdALSfIVHRDnAYSrGKVLVErLRKIIDRQfDIAIQAAIGAKIISREtVKALR
--LVRDLVLLnAQPVdALSALIHADnAQHIGKKmceEKLKELIPRQfDIPIQAAIGAKIISREtVKALR
---VkmDImLnGEQVdALSfIVHRDnAYSrGRIIcEKLKELIPRQmfEVPiQAAIGQKIISREtVKAmr
--LVKLDfLInGERVDALSfIVHRDKAVDRAKnAcKKLRDEIPRQmfKIAIQGAIGGKIISREtVSAYR
--LVRDLVLLnGDEVDALSfIVHRDKAYGmARALcDKLKEIIPRQfEVPiQGAIGnKIISRStVKARR
---VrmDVLInGDRVDALAVIHKDKtRtYGRALcEKLKELIPRQmfDVAIQSAIGnQIVSRStVKALR
--LVKLDILInGDEVDALSfIVHKDKAYALARGLcDKLKEIIPRQfEVPiQGAIGnKIISRStVKARR
---VKLDILInGDPVdAFsvIHRDKAntYnAicVKLKDIPRQfDVAIQGAIGGKIISRStVKAVR
--LVKLDILInGAGVVDALSfIVHKDKAYDLARGLcDRKGIIPQQLfEVPiQGAIGnKIISRStVRARR
--LVKLDILInGAGVVDALSfIVHKDKAYSLARGLcDRKGIIPQQLfEVPiQGAIGnKIISRStVRARR
--LVKLnILLAGDEVdALSfIVHKDKAYPmARALcDKLKEIIPQQLfEVPiQGAIGSKIISRStVRARR

! *!

--LVKMDILInGntVEELvtVHVKDKAHSIGKAicERLKDSLPRQLfEIAIQAAIGSKIIAREtVKAYR

>tr!E0UCU1_CYP2-GTP-binding-protein-LepA-[lepA]-[Cyanotheca-sp.-(strain-PCC-7822)]-----
>sp!B0JQT7!LEPA_MICAN-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!Q5N390!LEPA_SYN6-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!B5IP12_9CHRO-GTP-binding-protein-LepA-[lepA]-[Cyanobium-sp.-PCC-7001]-----
>sp!A5B4D2!GUPF_VITVI-Translation-factor-GUF1-homolog,-chloroplastic-precursor-(EC-----
>sp!B9GHA6!GUPF_POPTR-Translation-factor-GUF1-homolog,-chloroplastic-precursor-(EC-----
>tr!C7M3J6_CAPOD-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!A8MF46!LEPA_ALK00-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!C0BI27_9BACT-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!G0L4I3_ZOBGA-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!A4CI69_ZOBBH-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!G2PP86_MURRD-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!B4BLV2_9BACI-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!A4APC6_MARSH-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F3A9A0_9BACL-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!D3T886_THETA-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F7L7Y2_BACOV-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!E4T776_PALPW-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!A5Z33_9FTRM-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!D9ZZ93_9THEO-GTP-binding-protein-LepA-(Fragment)-[lepA]-[Thermoanaerobacter-----
>tr!F3PX0_9BACE-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F7M738_9BACE-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F3PG32_9BACE-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!Q88MY7!LEPA_PSEPK-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!B4S9B7!LEPA_PROA2-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F8H1B9_PSEUT-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!Q0YS96_9CHLB-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!A4SFN5!LEPA_PROVI-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!B3EE17!LEPA_CHLL2-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!B4SBG4!LEPA_PELPB-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!Q3ATB2!LEPA_CHLCH-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F7Z8Y1_MYCBH-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!E6X8W9_CELAD-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!E1WY76_BACMS-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!E8UU87_THEBF-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!B0NE80_EUBSP-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F4B1R9_KROS4-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!A2TS24_9FLAO-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!B4X3Q5_9GAMM-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!F5LN2_9BACL-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!D5H5U9_SALRM-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!E1QVD7_OLSUV-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!Q1MXQ0_9GAMM-GTP-binding-protein-LepA-(Fragment)-[RED65_03805]-[Bermanella-----
>tr!G1WG00_9ACTN-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!C9RNT3_FIBSS-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!D3VQZ1_MYCA6-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!B9CKK0_9ACTN-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>tr!E2MRE9_FRANO-Elongation-factor-4-(EC-3.6.5.1)-(EF-4)-(Ribosomal-----
>sp!Q8N442!GUF1_HUMAN-Translation-factor-GUF1,-mitochondrial-precursor-(EC-3.6.5.-)-----