

>MBNC1_ZP_00196381_p1 [Mesorhizobium sp. BNC1] MesodRAFT_4420
YRLLVEAITDYAVYMLDIDGYVSVWNPQAQRFKGYEASEIIGQHFSQFYTPEDREAGLPQKALAVAAS
EGRYEAEGWRLRKDGSRFWTHAVIDPIRDPAGRLIGFAKITRDLTER

>MBNC1_ZP_00196381_p2 [Mesorhizobium sp. BNC1] MesodRAFT_4420
FRILLVQGVTDYAIFFMLDPNGRIISWNAKAKRIKGYDASEIIGQHFSRFYMEDERERGEREPQGLKTAAK
EGHFEKEGWRVRKDGSRFWASVVIDAIRDERGELIGFAKVTRDITEK

>N7120_all5327 Nostoc sp. (strain PCC 7120)
YRLLVEGVNTYAIFFMLDSNANFTTWNIGAERILGYQEAEIIGQPFELIFAPEAIERGQPOQVLKQALT
EGFSRENWRHWRKDGTFWFHCLITPLRDENGNLRGFSKIMQDITER

>Re_Raeut03000161_p1 [Ralstonia eutropha JMP134]
FRTLIVETISDYAIFLLDLDGTITSWNRGAQRKIKGYEASEIIGSHFSRFYPEDSIARGWPQKELELARR
HGRVEDKGRWRKDGTRFWANVVITALHNEAGEIIGFAKITRDMTDQ

>Re_Raeut03000161_p2 [Ralstonia eutropha JMP134]
FRLLVLNVKDYAIFMLDPHGNVSVWNAQAQIKGYSSEIVGRHFSTFYLPEDVAAGKPERLIQARARE
HGSVQDEGWRRKDGSLFWASVTLTAIYDEHRQLRQGFQVTRDMSER

>Bj_bll2176_p1 [Bradyrhizobium japonicum USDA 110] NP_768816
MDYAIYMIDVDGTVRSWNSGAERLKGYSADDEIIGKSFSLFYPPEDRAKELPQTALKIAAET
GRFSSEGWRVRKDGTRFWALVVDAIRDEQGVIGFAKVTRDITER

>Bj_bll2176_p2 [Bradyrhizobium japonicum USDA 110] NP_768816
YRRLIEAVVDYAIFFQLDPAGNITTWNPQAQRKIKGYDPDEIIGQHFSRFYTPEDIQTGVPKRALAEAAKL
GRFEAEGWRVRKDGSRFWASVVIDRITDEAGELVGFQVTRDVTER

>Pp_PP3835 [Pseudomonas putida KT2440] AAN69429
YEQLVQSVVDYAIYMLDPSGHVSVWNAQAQRKIKGYRRDEVIGKHFSLFFTPQDCADGRPERLLCQALEQ
GVAQDEGWVRKDGTVQFWALAAALDVIRDESGQIIGLAKVTRDITDR

>Pa_Paer03003920_p1 [Pseudomonas aeruginosa UCBPP-PA14] ZP_00139866
NRLLEAVDDYAIHTLDSAGRIASWSAGAARLFGHDASEILGCDYACFHTRKDRDAGVPQALRQADAE
GRFETEGWRVRSNGKRFWAQVVIDAIRDSQGLLGFQVTRDITDR

>Pa_Paer03003920_p2 [Pseudomonas aeruginosa UCBPP-PA14] ZP_00139866
FRLLVQSVTDYAIYMLDHRGRITNWNLGAQRKIKGYLPEEVIGRHFSCFYTPEDREAGEPARGLAAAER
EGRFEKEGWRVRKDGSRFWANVVIDPIRDSDGRLIGFAKVTRDITDR

>Sm_SMa0113_p1 [Sinorhizobium meliloti 1021] NP_435303
YEALITSAPTALDAIPGAVYVCDHEGWLVGYNAEAAELWGRQPSLSAPRERFCGSQRLFLSDGSPMDHQECPMA
EAIKTGVSTRNAEVIIERPDGSRIFALVNIRPLRDHRGVIQGAINECFQDISQQ

>Sm_SMa0113_p5 [Sinorhizobium meliloti 1021] NP_435303
LASIVRFSDDAIVSKDTQGIQITWNKGAERLFGYSAAEEVIGKPINILIPPDRQGEPEGILERIRRDE
HIDHYETVIRKDGSLIDVSLTVSPLKDARGRVVGASKIARDITER

>Bc_ZP_00422404 [Burkholderia vietnamiensis G4] Bcep1808DRAFT_5496
FQTVVSSITDYAVFMLDTHGNVATWNAQAERIKGYREDEIVGRHFSSRFYPPDAIAAGRPAQALETAVA
SGHFQDESWRIRKDGSRFWASVTITAVRDESNTLRGFIKITRDMTER

>Bc_ZP_00425892_p1 [Burkholderia vietnamiensis G4] Bcep1808DRAFT_1771
YRSLVDAIRDYAIFFLLDPTGHVASWNAQAERIKGYRADEIIGQHFSVFYPSDAQQRYPAEELARAVT
LGRWEDEGWRRKDGSRFWANVVITPLRDRDGMVGFQVTRDLTER

>Bc_ZP_00425892_p2 [Burkholderia vietnamiensis G4] Bcep1808DRAFT_1771
LRLLMDAVEDAVFMLDPDGHITSWNAKAKRLKGFEPAEIIGHVSRFYPAEDIAARKPERELATAAAQ
GRVEDEGWRLRKDGSRFWANVVITAVYGPAGKLLGFQVTRDMTER

>Hm_AAV47403_p1 [Haloarcula marismortui ATCC 43049] rrnAC2616
MFGLDDTGRLLTFATNEFAALLDRTPDELVGTPEALVTAEDRETLTATRQAVSSASDRMT
RTCQVTLPOSGRSRPVTLAATDDGSVVGSLCRTAETTD

>Hm_AAV47403_p2 [Haloarcula marismortui ATCC 43049] rrnAC2616

FQYLFDLIQDAVVGFIEIVNFVPIVRTVNPFAVDTFGYDREEIVGEPLENEYIVPGDRVEEAVNYDQRTAS
GEINYAVVSRKTADGCREFIYRGVPHYDTADGRRRCGFAMYTDVTDSTRRQKR

>Cv_CV3259_p1 [Chromobacterium violaceum ATCC 12472] AAQ60923 new
FELLIQFVEDHAIILLDPDGLIRSWNAGAERIHGHTVPQALGRHFSCLLPPADDAYLQA
MRELSQAAQDGRYAGERWHVRNDGSRFLADILLVPLRDAGGELRGYAKITRDLSHR

>Cv_CV3259_p2 [Chromobacterium violaceum ATCC 12472] AAQ60923 new
FCQVVQESPAMIMINGAGSIILSNRLAEAMFGYPGDELGMSIEKLMPEFRG
RHGHLRQGFRLRQPEARPMGVGRDLYGLRKDGCEFFIEIGLNPETEAGPMVLAGIVDITA
RKQTOR

>Cv_CV3248_p4 [Chromobacterium violaceum ATCC 12472] AAQ60912
LAEALNQAAQPILMVDAEDRVTYANPAYTALMGYSRDELIGIQANQLAPGADQAERDIIKQKILT
EGSWSGELARLDSQGRSIPVYASAAALHDQAGTLEGYVVVYADLRPLQEKSLAL

>Cv_CV1621_p1 [Chromobacterium violaceum ATCC 12472] AAQ59297
LAAIVEGSVDAIISKTLDGVVTSWNLSEERLFGYRADEAVGQPLAKLIVPEDRRGEE
VDILRRIARGERIEHFETVVRMRKDGSLIVSVSISPVLDEAGR VVGASKVLRDLSEQ

>Cv_CV1621_p4 [Chromobacterium violaceum ATCC 12472] AAQ59297 new
LSNVLRAASEVAIIAADVHGVSLSFNLSGAQRMLGYSENEVMGRAMLTHFHLPEE
LREHGALSQRYSRQVEGLRALVQEPPEASGAETREWTYVRKDGSQLQVSLMVTAMRDADE
LVVGYLAIAADITIP

>Af_AF1620_p1 [Archaeoglobus fulgidus DSM 4304] NP_070449
FREILLEHSVDAIVILDVDSRITVWNRGAEMMFGYTAEEAVGKPLNFLMPKERWQQCTENFKRAVVEG
HVKDIEAPRIRKDGEMIIVDQTLTSHDSNGEVIGFVAIMRDITRR

>Af_AF1620_p2 [Archaeoglobus fulgidus DSM 4304] NP_070449
LASIVENSNDAIYSVNLEGGKITSWNRTAERLFGWRRDEALGMPASKLLPEEIKGETEFTIIRRIRE
GESGLRFETRRLRKDGVIDVEVTVSPLLNEMGELSGISITRDISEK

>Rp_RPA0754_p1 [Rhodopseudomonas palustris CGA009] NP_946107
FAAIVQNSFDAIVSKDVEGNVQSWNPAAEQIFGWTADEMIGNSIRVLIPPDRQHEEDDILQIRITGEM
VPKFETERLHKSGRRIHVAVTVSPLRDPDGRIVGASKIAHDITET

>Rp_RPA0754_p2 [Rhodopseudomonas palustris CGA009] NP_946107
FRSLANSIPQLAWIAESDGTVFWYNDRWFDYTGTTLEQLRSGSGWTALHHPDHLERVRSKLOHSWDT
GEAWEDTFPLRGKDGGEYRWFSLSRAMPLRDDSGEVWRWFGTNTDITVQ

>Bj_blr0385_p1 [Bradyrhizobium japonicum USDA 110] NP_767025
FSAAVQSSDDSIVLQTLDGIIIGWNAEAERLYGYSAAEEAIGQPTSILLPPDRREEGKDYLRRIARG
ERIEHFETVRLRKDGSPVEISVLSPIRGPSGEIIGASGSARSLEA

>Bf_Bcep02000013_p1 [Burkholderia fungorum LB400] ZP_00283544
SVRWVESVSDYAI FALS PDGRIQSWNPGEAIYGYRRDEVLGQPLDILYTEEERSKGLPAAGLETARR
THRYDTEGWVRKDGTVFVWASVVTTLRAEDGQITGFAKIVRDMTDK

>Bf_Bcep02000013_p2 [Burkholderia fungorum LB400] ZP_00283544
FRMLVHGVTDYAIYMLSPEGIITNWNPGARRIKGYTAEEVIGSHFSRFYTPEDAAAGLPQHGLAVAAR
EGRFEAEGWRVVRNGERFLAHVVIDAIRDDDGMLAGFAKITRDITERS

>Bf_Bcep02007382_p1 [Burkholderia fungorum LB400] ZP_00277932
ASQWVASTEDYSVFLITSEGDVSWNPGGTRIEGYQLEEIIGRNFSSTLYTDEDRGNGVDPDAVLESVLO
RGRHESEGWRRQKDGTHFVWASVVTGLRDPGEFRGAVQIVRDVGEK

>Bf_Bcep02007382_p2 [Burkholderia fungorum LB400] ZP_00277932
FRLLVQGVTDYAI FMLSPEGYVTNWNPGARRIKGYSEQEIIGSHFSRFYKPEDVAAGKPQRGLETAAR
EGRFEAEGWRVRRDGTTFWAHVVIHAIRDDEGTLIGFAKVTRDVTTER

>Bf_Bcep02000999_p1 [Burkholderia fungorum LB400] ZP_00284503
YWALMQAIEDYAI FLLDATGRIVSCNTGALKQAGYTEREIIIGQHFSCFYTEDAVARDWPAYELQQASL
TGRFEDEGWVRKNGTTFWNSNVVITAIRNDAGILTGFAKITRDLTAR

>Bf_Bcep02000999_p2 [Burkholderia fungorum LB400] ZP_00284503
FRLLVDSVKDYAIFMLDPQGNVVSWEAARIKGYTREEIVGRHFSTFYPPEDAAAGKPARELAIARQ
IGHVEDEGWVRKDGTTFFWANVNITAVYDESKRLCGFAKVTRDLTER

>Mm_MM2748_p4 [Methanosarcina mazei Gol] NP_634772
YRNIVETANEIILLITDSEAVINYANSKVVDMLEYPLDEVIGKPIWGFISKECIPAVRQNLKRRQG
ISESYELKLIRKDGSPVWTFFLNAKPLFDRNGSFTGVMSMLTDISKR

>Np_Npun02005975 [Nostoc punctiforme PCC 73102] ZP_00107821
YRLLVEGVNTNYAIFMLDPNGNVTTWNIGAERILGYQAEIIGQPFERVFSPPEAIKQGLPKQVLRKAV
AEGFSRENRWHIRKDGTTFFWAHCLITPLLLDDGDLRGRFSGKIMQDITER

>Xa_AAM36536 [Xanthomonas axonopodis pv. citri str. 306]
NRQILDSVMDYAIATDMHGRVTSWNEGARRILGWSEAEMLGQTLQRTFTPEDVEQRQLLIEAAAAL
ESGSGMDERWHVRKSGERFWANGSLMVLREETGEAIGFVKVLRDRTAE

>Bj_FixL_p1 BAC48025 [Bradyrhizobium japonicum USDA 110]
FRVRIEGFGVGTWDLDLKTWALDWSDTARTLLGIGQDQPASYDLFLSRLEPDDRER
VESAIKRVSERGGGFDVSVFRVAGTSNAGQWIRARAGLIRDEAGTARHLSGIFLDIDEE

>Bj_FixL_p2 structure done BAC48025 [Bradyrhizobium japonicum USDA 110]
THLRSILHTIPDAMIVIDGHGIIQLFSTAAERLFGWSELEAIGQNVNLMPEPDRSRHDS
YISRYRTTSDPHIIGIGRIVTGKRRDGTTFPMHLSIGEMQSGGEPYFTGFVRDLTEH

>Sm_FixL (corresponds to Bfixl p2) [Sinorhizobium meliloti 1021] NP_435916
LRSILDTVPDATVVSATDGTIVSFNAAAVRQFGYAEVEVIGQNLRLMPEPYRHEHDG
YLQRYMATGEKRIIGIDRVVSGQRKDGSTFPMKLAVGEMRSGGERFFFTGFIRDALTER