

LOCUS DMACINML_1 261035 bp DNA linear 16-DEC-2020
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.
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 /organism="Campylobacter species"
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 /strain="strain"
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 IKDAQIQSNKDLNIAVLALKNNKIDAIVAEDTAKGFLAENSDLVSFYQETDGGEGFS
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 gene 1394..2377
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 /inference="similar to AA sequence:RefSeq:CAL34863.1"
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 ISNEFNLEFPTKEEREEIELSAKYWEDNATITINAHFLIREFKNDNEEQNSIKLRTEI
 VTFATAKNILFTIRYNEFSTFEEIQARILASPKNFEDGFDIIDKMFVVRVEKDADLLE
 WIDKEARRLRRTTVLEKKDEYSYDEMLKDISSLQELNMRVRDSLFDKRRAMTSLKSDK
 IDRDIKQNLTIVLKDLNSLVEFSVSQLNVLVDNIQTILASQVNIQNKIIKLFTVATVA

gene MMPPTLIGTIYGMNFKFMPELELHYAYPIVLAVMIISIIVPVIVFKKKGWL"
 2396..2938
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gene complement(2935..3120)
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gene 3250..4437
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 TFWWFAAFVFAFCVIVIINVIYPTLIAPIFNKMEKLEDENLLSKINDLMKRCGFNANG
 VYVIDASKRDKRLNAYFGGLFKSKRVVLFDTLLKALSERELLAVLGHELGHFVHKDII
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gene 4434..5234
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 4434..5234
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YDFKQIKESYDFIFSPPYIQNSYPIDLWVQNEPKEALFGGEKGYEILEEIIITFSFER
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gene 5276..5749
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gene 5785..6534
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/locus_tag="DMACINML_00008"
CDS 5785..6534
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IADSLRSQSSTIDQGANAYDAIGVLQIADASLTNISQSADRLNELSVKMNNAALSDS
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NQDSITSFMDQLGALRSEIGSGINAITSNINASVQNSINAKAAENLLNNDMAKNVND
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gene 6571..7203
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CDS 6571..7203
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ALIQKKEILDKDLNIKWHFIGTLQSNKINLLIKQKPILWHSCNGLKIAKAMDKRLNY
KLDTLLEINSANELSKSGLNPDQAIIEEYLQIQEECPNLNLGCVMSIGSHSEEQKEIIK
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gene complement(7220..10822)
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/locus_tag="DMACINML_00010"

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 IATNDTHYTFKERAAAHEVFMCIAMGKKLNDPDLRHSVHEFYVKSPAQMSEL
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 IVHDFIKVAKDKGIPVGPGRGSAAGSLVAYSLKITDLDPYPYSLFERFLN
 PERVSMPIDVDVFCQDRRGEVIDYVIDKYGADKVAQVITFGKLLARGVIR
 DVARVCDMSIPDADELAKLIPEELKITLDAAYEKEPKIKEFIERHPKGPEV
 WEYAKALEGLNRNAGMHAAGVVISNESLWKKTPLFRQSKNDERHLVTQYS
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 TIQSGNTLGFQIESGGMQNLNARLKPERFEDIIVLALYRPGPMESGMLDDF
 IDRKHGLK KIEYPFDTLESVLEPTYGVIVYQEQVMQIVQIIGGFSLGGAD
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 MNIKLLPPSVNKAIREFSAVEQEDGKDAIVYGLGAIKSVGIPAVENLL
 LEARERGEFKNIDDFLSRIEPTKINKRTLESLIKAGAFDEFGYTRKCL
 FDNMDNLTEGSKMADARKNAASSLFGEDELTVGLQVNIVAKDEEFVMEK
 LEFEKEILGIYVSGHPLDRFYEFKDKIDYIKSIDFSTLKGNGEILSIGKIE
 SFKSMMSKN NKRYGRLEILDFYSTFEVTVFESNIEEIEINILKNEASR
 NEAYGFLLSYKAEEGKLDLALRSIKTLEELQEGEVKAVKFKSAKKNAL
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gene complement(11033..11362)
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CDS complement(11033..11362)
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 /protein_id="Prokka:DMACINML_00011"
 /translation="MKVYGIKNCNSVKKALEFLNQKALEFDFIDIKKIDLNILE
 NWLYKKFSEIINTAGTTSKKLGLNKDKIENLSELELKNIILENPSCIKR
 PVIERNQIYIGKEYEQIS"

gene complement(11359..12702)
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aldolase"
/protein_id="Prokka:DMACINML_00012"
/translation="MTWTKNSWKNFSIKQQPIYSNQEELNKVLNKLEKLPPLVFAGEV
RELQNALARVCRKEAFLQGGDCAESFANFGAVNIRDMFKILLQMAIVLTFAGGCPVV
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TTLNLLRGFAGGLANLHEVHRWNLGFLKKSELHQYTDISEKISQALDFMEACGINT
YNTPSLKEVDVYTSHEALLLPYEEALTRVDSLSGEIYDCSAHMLWIGERTRGLDEAHV
HFLSGVRNPLGVKIGPNASADDVIALANALNPNNEEGRNLNIIIRMGAEKIATQLPKIF
SKLKK EGLNLVYSIDPMHGNTVKAGDFKTREFDKIMQEVRYFFEIAMSEGVYAGGVHL
EMTGQDVTECTGGASNVTAQSLEKRYETQCDPRLNADQALELAFLIADLVKKVRK"

gene complement(12727..13140)
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CDS complement(12727..13140)
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LYSLNKNQWIKISEKFTEKNGRISDLLPYEKTENRPSGIYKLFYTKDYMSRKVDS
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sig_peptide complement(13078..13140)
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/note="predicted cleavage at residue 21"

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CDS complement(13293..13649)
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gene complement(13660..14364)
/gene="trmD"
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CDS complement(13660..14364)
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KKQNIVFVCGRYEGIDERVIEIFANEVFSIGDFILTTGGELPALTLCDAIARNINGVLG
NACSL EEESFENGLLEAPSF AKPFIFEQNFKKFYTPSEFLKGNHAKIATLKTTLASCK
TKFFRPDLFLEHERKK"
gene complement(14361..14900)
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CDS complement(14361..14900)
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/protein_id="Prokka:DMACINML_00016"
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GKSQ LKIKHYLANSSVLFEGYENVEAAKQLINLILYQSIEATRQTCILKKDEFFYFD
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IEKYSIFCTKDAFLILENS"
gene complement(14893..15135)
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CDS complement(14893..15135)
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K LIGKNGKMINAIKT VVSACKSKDSMSYRVTVKALE"
gene complement(15140..15367)
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CDS complement(15140..15367)
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/protein_id="Prokka:DMACINML_00018"
/translation="MTVIRL TRMGRTKRPFYRIVVTDSRKR RDGGWIESIGYYNPMVE
PEVVKFDSERLAYWKS VGAKLSDKVASITSK"
gene complement(15435..16772)
/locus_tag="DMACINML_00019"
CDS complement(15435..16772)
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SGQDGVKTASSFNELLQITGVILSKFDADTKGGIALGITKQIGIPLRFVGVGEKIADL
EIFIPERIVNRIMGEGDLATLAEKTATIIDEKEAKLNQKIKKGEFNFDFLTQMESV
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gene complement(17572..18729)
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PFWLKPVKLVIFEAEYWLMFVFIKQKSKVILLNARISDNSYASYKKFRFFYKIF
CYIDEVFAQSEADKIRLEDLGAKNVKIFPNIKSKLQICPAQKYFKPKQLIIFASTHK
GEEELLLKHKMDKQEKLIAPRHPERFLEVEQLLHDKGLKFDKFSLLQNEKDKFNQD
ILLDCLGELINFYAISDVVVLGGSFEGIGGHNPPIEVAHFNNVLISGVYIHNQKSLF
QEVDNVYFCEDLKELDGIIHNYNLKAKIAQNNDLSTIIQAIQEGIDARKSI"
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QLDAADEIVRLDKILENKELFKKELLEERAKEEQNLDEIRVSISSQMDGLEKERMNV
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gene complement(20164..21027)
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AETIYGLERIAMYLQNVDNVYDIVWSEFNGEKIKYADVHKRSEYEF
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gene complement(21029..21583)
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CDS complement(21029..21583)
/locus_tag="DMACINML_00025"
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/note="hypothetical protein Cj0703"

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gene complement(23338..24039)
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CDS complement(23338..24039)
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CDS   /locus_tag="DMACINML_00029"
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gene complement(26860..27672)
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CDS   /locus_tag="DMACINML_00031"
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CDS complement(27813..28925)
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SDSILVIQNEKLLSIIDKKAGIKDAFKLVDDILARAVKGMVSILLDNGDINVDFAVDR
TIMSHRGLALMGVGSASGENAIEEALSNAIESPLLDGMDIKGAKGVILHFKTSSNCSL
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gene complement(28942..30324)
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CDS complement(28942..30324)
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gene complement(30327..31814)
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CDS complement(30327..31814)
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FLEKLEKIKLKNCILAIICFHSLED RIVKNYFKKWAKNCICDERAFKCECGNNHALGQ
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gene 32902..33792
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CDS   32902..33792
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QTDLKPDIRQSL ENLQKKIQTEIKAEIEKPEIQPIKTEYDEDAQKVKNVLL EGF SNA
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gene complement(33780..34271)
      /locus_tag="DMACINML_00037"
CDS   complement(33780..34271)
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HSK"
gene      complement(34346..35536)
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CDS       complement(34346..35536)
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gene      37157..37855
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CDS complement(40906..41352)
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gene complement(41584..41814)
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CDS complement(41584..41814)
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gene 41969..43942
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CDS 41969..43942
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gene complement(43977..45563)
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AVVSLTALLNAEHKLAGFDGYINLLQITIPSTLFGVLCVGFISWFRGKDLKDEVFQ
EKLDPEFKKYVYGDSKTL LGVQLPKSNWIAMWIFLGAIALVALIGAFDSLKPNWGQK
MAYKAEINGTTLQWTPSGLNKGVDLQKLGFDQTSIVEENGDKSSKFKEAINS GEIIA
IPQKDKLGNPSYDFISMVNVIQMFMLLAGALIIIFTKTDAKKIGSNEIFKSGMIALVA
VFGISWMADTMFAVHTPMMKKAL EDVVTDYPWTYAIMLLLISKFVNSQAAAIAAFVPL
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IGVISSCVAGYFLALIAGYL"

gene complement(45748..46998)
/gene="rpoN"
/locus_tag="DMACINML_00048"

CDS complement(45748..46998)
/gene="rpoN"
/locus_tag="DMACINML_00048"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34810.1"
/codon_start=1
/transl_table=11
/product="RNA polymerase sigma-54 factor"
/protein_id="Prokka:DMACINML_00048"
/translation="MLRQKITQAPKTKISQTLRSWLPILQANIEDLKENLDKFAEENP
FLSVQEP IQTQEHNKNYFDSFYKRVNSAFVDNKG FATKSVYELLSEQIIPPLFPTNK
SQELAGKII ECLNHEGYFEYDEEILKDYDINEIERIRARFKFLDPVGVGAKDYKEAFL
FALENIELDAELYDFCKMLIQDFENIQNYTKESLYKEALTIFKRFSIPPFL EYFEDSR
VIIPDIFVYRENNEIKVKINDDYYPEIS IETDGLNHEYLNHYIKEAKNLVDAL TMRKA
TLYKIGLMIVEYQYDFFMGKDIKPMTFKDLALDLERNASTISR AVANKYLSCDRGLIP
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ITKYRKHLNIPSSDRKKLYELEG"

gene complement(46998..47726)

CDS /locus_tag="DMACINML_00049"
 complement(46998..47726)
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 /inference="similar to AA sequence:RefSeq:ADT72413.1"
 /codon_start=1
 /transl_table=11
 /product="ABC-transporter ATP-binding protein"
 /protein_id="Prokka:DMACINML_00049"
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 TFYMICGLIAPSSGKVLDDGLDITKEPLNKRARLGIGYLPQESSIFKDLSDVEDNLLLA
 AQIFYKDKKILHEKVEQMLELLSIEPIRLRKGLSLSGGERRRCEIARSLMCEPKFLLL
 DEPFAVDPIAVAEIQSLINELKKLDIGILITDHNVRETLAICDRAYVIRSGSLLASG
 NAEIANNKDVKKYYLGAEFKLLD"

gene complement(47719..48126)

CDS complement(47719..48126)
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34808.1"
 /codon_start=1
 /transl_table=11
 /product="putative ATP/GTP-binding protein"
 /protein_id="Prokka:DMACINML_00050"
 /translation="MKEFVLAKDELKTMQLTLPKQGVVLLQGELASGKTSLVQAWVSF
 LNLDEKVDSPFVSIMQKYENQDICVYHYDIYQEGLEGLLKNGLFENFFEEGLHLVEWG
 DENLKKALLKLGIPITLEIKISVEDNKRKYVIHE"

gene complement(48123..48410)

CDS complement(48123..48410)
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 /protein_id="Prokka:DMACINML_00051"
 /translation="MGFKNLIFLVKFMVVDKFLNAVNITKRRAISEDMCRSVGVGI
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gene 48510..49730
 /gene="argG"

CDS 48510..49730
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 /locus_tag="DMACINML_00052"
 /EC_number="6.3.4.5"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34806.1"
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 /translation="MKNEVKKVVLAYSGLDTSIILKWLQDEYKCEVVTFTADIGQGE
 ELEPARKKALSGLIKEENVFIDKDLREEFVKDYVFPFRANTIYEGEYLLGTSIARPLI

AKTQAQIALQTGADAVSHGATGKGNQVRFELGYLAFNPDLKIIAPWREWDLNSREKL
 LAYAQKHGIDISKKKGKSPYSMDANLLHISYEGLVLEDPAHAPEEDMWRWSKSPKEAP
 NESEIIELDQKQDLVAINGEHLSPAGLLSKLNELGAKHGIGRLDIVENRYVGMKSRG
 CYETPGGTILLKAHRAIESITLDREAHLKDELMPKYASLIYNGYWFSPERMMLQALI
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gene 49745..50188
 /gene="rplI"
 /locus_tag="DMACINML_00053"

CDS 49745..50188
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 /locus_tag="DMACINML_00053"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34805.1"
 /codon_start=1
 /transl_table=11
 /product="50S ribosomal protein L9"
 /protein_id="Prokka:DMACINML_00053"
 /translation="MKVLLIKDVKALGKAGEIKEVKDGYQNFLIAKGFKAATNEVL
 RKYESDKKKEAENLRFELANLEKLKEELSKVTLEISKPVGANGSLFGVTKDEIAHAL
 KEQTHIEIDKKSLECDTLKSLGTHEVSVKLGHAIHAKFNINIKAE"

gene 50188..50730
 /gene="hslV"
 /locus_tag="DMACINML_00054"

CDS 50188..50730
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 /locus_tag="DMACINML_00054"
 /EC_number="3.4.25.-"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34804.1"
 /codon_start=1
 /transl_table=11
 /product="ATP-dependent protease HslV"
 /protein_id="Prokka:DMACINML_00054"
 /translation="MFHATTILAYKGNKSVIGGDQVSFGNTVLKGNVAVKIRKLNG
 KVLGAFAGSTADAFNLFDMFENLLQSSKGDLLKAAIDFSKEWRKDKYLRKLEAMMLVL
 DRNHIFLLSGTGDVVEPEDGQIAAIGSGGNYALSAARALAKHANLDEEELVKSSLQIA
 GEICITYTNTNIKTYVIEDEK"

gene 50727..52046
 /gene="hslU"
 /locus_tag="DMACINML_00055"

CDS 50727..52046
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 /locus_tag="DMACINML_00055"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34803.1"
 /codon_start=1
 /transl_table=11
 /product="ATP-dependent Hsl protease ATP-binding subunit"
 /protein_id="Prokka:DMACINML_00055"
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 DDIVPKNILMIGSTGVGKTEIARRLAKMMGFPFIKIEASKYTEVGFVGRDVESMVRDL
 ANAALNLVKNEQREKNKDKIDEFIENKILEKLLPPLPKGISDEKQEEYKNSLEKMRTK
 LRNGDLDESIVIEIEISQSMFDTNPNLPPEMGAMQDIVKVIKVGSKVKKEMKIDAKN

ALKNEAGEKILDQESIKSEALKRAENEGIIIFIDEIDKIAVSSGNSNRQDPSKEGVQRD
 LLPIVEGSSVQTKIGTLKTDHILFIAAGAFHLSKPSDLIPELQGRFPLRVELDSLDDK
 ALYEILTRPKNSLLKQYEQLLKTENLELEFDDEAIKEIAKIASKANEEMQDIGARRLH
 TVIEKILLEDLSFEADEYAGKKFVVDKMMVEEKLGDIIENKDLARYIL "

gene 52043..52918
 /locus_tag="DMACINML_00056"

CDS 52043..52918
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ALW55063.1"
 /codon_start=1
 /transl_table=11
 /product="GTPase Era"
 /protein_id="Prokka:DMACINML_00056"
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 IVMNGEDQIIFIDTPGLHESKATLNQFLIQSAIKSMGDCDVILFVASIFDSVKDYENF
 LSLNPKVPHIIVLNKVDLADNGALLKKLNAYAKFSEYFKAILPYSCKKKSQYQKPLNE
 LCKLLPEHEHFYDSEFLTPSSQKIDFRDFILESVYENLSEELPYSCEIMIKNTKETPN
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 QKDEVFLKKILNYEE"

gene 52908..53984
 /locus_tag="DMACINML_00057"

CDS 52908..53984
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34801.1"
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 LAFLKQDQIYHCFLTWAAKLPKTKFCFPEPLIFQSLFLENKIKEGNFCILEISSKKVF
 LCFYEQGKFKTKLNFCDNVEEFINKSRILELLQHYESKILLSGKAHEIIDLISTKA
 KLPLKIIQEDKITLSNHSIHHLDKNANFIKYYQKHLWPYFKFIFLFLVLSFIISIGILS
 LIDFTQYQSAKKTHIQNEISQNKIYEIQENQNQKLANIEKLQLEIQTQDLLLEKYSE
 QLSKITQNFKADKDTILILTKIITWLNHSLKIANLMIDKTLITIKFSNEENFNKALQ
 FTSPQFNLSQDKFLYEITLRALQ"

gene 53981..54538
 /locus_tag="DMACINML_00058"

CDS 53981..54538
 /locus_tag="DMACINML_00058"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34800.1"
 /codon_start=1
 /transl_table=11
 /product="putative periplasmic protein"
 /protein_id="Prokka:DMACINML_00058"
 /translation="MNQIEQFLENLSPREKILIIYLT TILLAVLLSFHFYHSYLKSLFN
 HEFFIQSDEVNKIIITNQDLNQQIKQLEEKLNISIQDKIKSYENHLSTFNKDYETYIKN
 LQNLALKNNLQISNISRLQEENSYHRISVDILGDFNPILSFIQDVENSNLHYEIQKFE
 IDNTSNLNLHLKLTLSFIALVKKN"

gene 54628..56415
 /locus_tag="DMACINML_00059"

CDS 54628..56415

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/inference="similar to AA sequence:RefSeq:CAL34798.1"
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/product="putative aminopeptidase"
/protein_id="Prokka:DMACINML_00059"
/translation="MNIYKTRVEKIRQFMKEKLDAYLILSADPHLNEYLPSFYQSRA
FVSGFKGSAGSLIITLQDAFLWTDGRYWIQAKKELEGSDILLQKQDANNTFLKWLKEN
LNKEQNLGIDFSVLSLALQKEIQKNCKAELKNIDLISPIWENRPALPKNKVYEHELY
CSYSRKEKLTLVREKMAKLQAQNHLISSLDDIAWITNLRGSDVYNPNVFLSHLLILEE
KALLFIDREKIDFELEKKNLDGIWLKDYNEIQDELKKLQNTNLLIEPSKTTALLIEI
LDKSVEILEEINPSTHLKAIKTDKEIAHIQNAMIEDGVALCKFFAWLEENIENNTQIT
ELDIDTKVTEFRSQSPYYISNSFATIAGFNANAALPHYKAEKESFSYIQKNGLLLIDS
GGQYKNGTTDITRVAIGELNKEQIHDTLVLKAHIAISSTVFPKIDITMPLLDAITRA
PLWQEQLDYAHGTGHGVGYFLNVHEGPQTL SYFSPVLEKTKAKEGMLTSIEPGIYRTG
KWGIRLENLVNTKIKNPKNKDFGEFLYFKPLTLCPEFISCIDKTLLSIKEKAWINAY
HKEVYEKLSPKLHDNPKALKWLKERTETI"
gene complement(56465..58300)
/gene="pbpC"
CDS /locus_tag="DMACINML_00060"
complement(56465..58300)
/gene="pbpC"
/locus_tag="DMACINML_00060"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ABV52210.1"
/codon_start=1
/transl_table=11
/product="penicillin-binding protein 2"
/protein_id="Prokka:DMACINML_00060"
/translation="MRMRLVVGFIILFFIFLLSRVYYLSIKSNVYYEELAKQNAVKTE
FIAPTRGQISDRNGTPLAINDLGFISISIKPYLTLKRANRGVLEKELNQLQEFFPDNLV
TKLAELYKKNDSYYNQDFIKIIDFIPSQEMMKHYSELNLENIRIDPAGQRKYPFGKL
ASHIIGYVGKADLQDIKENEIAKLTNFTGKSGIERYYNDVLQGEKGTQVYKVNALNQE
VEQLSYTSALSNDIELTIDIELQSFLTQLFEGNAGAAIMDISDGSILAAGSFPEYDL
NPFVTGISYKEWDELSNLDHPFTNKLINGYPPGSVVKMGVGLSFLNSKSNPSTQF
FCNGSVELGGRFFRCWNRAGHGAVDLKHAIKASCDVYFYDGLQVGDIDQISRTL SRIG
FGAKTGVDLPNEFVGILPSREWKMORYKQAWFQGDTLNTSIGQGNFLATPMQIARYTA
QIAKGGEVIPHFLKSVENNSITEDKTQDSNEIFTLFEKSQLPYIRDAMYAVANEQGG
TSYHYLRNLEVKVAAKTGTAQVVGFSQADKNRVDEKQLKYYTRSHAWVTSYAPYSKPR
YVVTVLVEHSGRTISSGVATAKIYQKMIDLGYFKPESKVNSSKKN"
gene complement(58300..58794)
/locus_tag="DMACINML_00061"
CDS complement(58300..58794)
/locus_tag="DMACINML_00061"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34796.1"
/codon_start=1
/transl_table=11
/product="putative integral membrane protein"
/protein_id="Prokka:DMACINML_00061"
/translation="MRKSISTYKVKLNGSYIFLGLCILYQILGSIFFYMPLLYGVFF
CYMYFLLERQKTFNKLDFRWYFSLFFLFFTDITYDFFLFSSWFAFAIFYTICADWIK
TNFKIGKIIPVILVLCVYAFIFVLDAIFSYVGDQEFKMPSPFGYIMISIMFECLFAYMLF

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gene      RSKF"
          complement(58796..59386)
          /locus_tag="DMACINML_00062"
CDS      complement(58796..59386)
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          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:ABS44681.1"
          /codon_start=1
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          /product="GTP-binding protein"
          /protein_id="Prokka:DMACINML_00062"
          /translation="MIISAKFISSLDFKDFNFASHFSEVAFLGRSNVKGSSLIINSLCK
          QKKLAKSSATPGKTQLINFFEVLCCKDEDKFSIHFDLPGFGYAKVSKNLKEIWNKNL
          DEFLKLRSSIKLFVHLIDSRTNLDIDLNLDEYLKSF LKPDQRILKVFTKCDKLNQSE
          KAKLKNNFKDAILISNLNKMGLDDLEHEIIKQTLGL"
gene      complement(59370..59840)
          /locus_tag="DMACINML_00063"
CDS      complement(59370..59840)
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          /inference="similar to AA sequence:RefSeq:CAL34794.1"
          /codon_start=1
          /transl_table=11
          /product="putative OstA family protein"
          /protein_id="Prokka:DMACINML_00063"
          /translation="MVRKIILFLMSISISLASQIEVKALNFYSDENKGESILSGNVEI
          IRGDDVLTAEKVIIYTDKNRKPIRYEAVQANFKIVLKGKTYKGSQDKFIYNVAKDIY
          EIDGNAYINELESNQKLYGDRIVVDRNNVYRVESKDKKPARFIFDLEQNDNKR"
gene      complement(59825..60337)
          /locus_tag="DMACINML_00064"
CDS      complement(59825..60337)
          /locus_tag="DMACINML_00064"
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          /inference="similar to AA sequence:RefSeq:CAL34793.1"
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          /transl_table=11
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          /protein_id="Prokka:DMACINML_00064"
          /translation="MAIRIFGILIALFTITFTILSLQDPYSLNIKSYALNFKNIEAFN
          LNAYELNASNVKSYYKAQTWTRYVDKDEFDNFVNFNLDNFNSANKLELKGKEMNKVLF
          EGNVTYIGSNNTKILADKVEYEPKNKILSTDTGFKALINGSIINGNTLNVDVEKKILQ
          VQGVNAWLER"
gene      complement(60328..60816)
          /locus_tag="DMACINML_00065"
CDS      complement(60328..60816)
          /locus_tag="DMACINML_00065"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL34792.1"
          /codon_start=1
          /transl_table=11
          /product="putative HAD-superfamily hydrolase"
          /protein_id="Prokka:DMACINML_00065"
          /translation="MIELIFLDVDGCLTDGKIIYTSNGSVIKEFDVKDGAIEAWIKL
          GKKIAIITGRNCPCVSARAKDLKIEIVHQGVKDKLTCACKILEELNLDLFSQCAAIQGY

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FNDKNLLENVGLSFKPKDAHKDLKVDITLDKKGKGAAVAQMI EYI I KKNM QE EWDL
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gene complement(60819..61658)
/locus_tag="DMACINML_00066"

CDS complement(60819..61658)
/locus_tag="DMACINML_00066"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34791.1"
/codon_start=1
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/protein_id="Prokka:DMACINML_00066"
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SNDFHSSPSGSGSKGTMKPYTINGKTYPTVVSGETADGIASWYGPFGHGKTSNGE
TYNQNGLTAAHKTLPMNTILKVTNLNNRQVTVRVNDRGPFVNNRIIDLKGAANQID
MIAAGTAPVRLVIGFGSANSNNVHNSINYGTSGGIANNGQIYEGGNFMVQIGAFK
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VRE"

sig_peptide complement(61566..61658)
/locus_tag="DMACINML_00066"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 31"

gene complement(61603..62736)
/locus_tag="DMACINML_00067"

CDS complement(61603..62736)
/locus_tag="DMACINML_00067"
/EC_number="3.2.1.-"
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/inference="similar to AA sequence:RefSeq:CAL34790.1"
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/protein_id="Prokka:DMACINML_00067"
/translation="MKKIILCFILFYNFLFAQTTTPEFYERQMSVLRNLDIDPSFISD
LAFVQSQQDLRSKHAPTLIDGIQNF SKVTPMIRKILAQQEVPEEILYLAMVESGLKAH
SVSNAKAVGVWQFMQPTARNLGLRIDAYVDERRDPVKSTYAAVHYLKSLKEEF GKWYL
ALLAYNCNGNKL RQAIKQAGSDDL RILLSDKKYLSLETRNFIRKILT LAF LANDRDF
LLDKDGLVNYALNNDFAKVDAPSSVALKDLAKNLNMDLATFKKYNPQFKHGFTPPGK
GYMYIPLNKVAFDKNFKVEKLAKVDTTIPMTKVYVVKSGDSLYKIAKTYNTSVEQI
RELNKIAKNHLSINQKLIIPIKENKNANYKTKAKENFTKVVSR"

sig_peptide complement(62683..62736)
/locus_tag="DMACINML_00067"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 18"

gene complement(62739..63551)
/locus_tag="DMACINML_00068"

CDS complement(62739..63551)
/locus_tag="DMACINML_00068"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34789.1"
/codon_start=1
/transl_table=11
/product="putative TatD-related deoxyribonuclease protein"
/protein_id="Prokka:DMACINML_00068"

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IIPGADIKDLPYAADLASKYKNVFFAAGVHPYELEGFDEKILRAYLKDEKCVAVGECG
LDYFRFKSEDFKEREKEKEEQKRLFVAQLELAKEFKKPVIIHSREANNDTYEILHEHS
KDLVGGVLHCFNASEHLLRLSNDGFYFGIGGVLTFKNAKNLVNILPQIPKDRLLLETD
APYLTPEPYRGKRNEPLLQLVANKMSEILDLPQELLGICLENSYRLFFKG"
gene complement(63542..64786)
/locus_tag="DMACINML_00069"
CDS complement(63542..64786)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34788.1"
/codon_start=1
/transl_table=11
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/protein_id="Prokka:DMACINML_00069"
/translation="MNKKILLIDDNKMLGKLLAKKIQTTLNREVDIVFSLAEVKALPD
DEYFLTFADLCLPDAPNGEVVDYLLAKNWPVIVLTASNDKATRDKFMDDKILDYIFKE
SDTCIDQIIDSIVKLEHYAKTKVILALSLSERNEIKLLTQRKFSVLAAGHGEAMS
YLNDNNDIKLIIADANMPVISGSELLSEVRTRFSDSELGVIIILGDKDDALEASLLVSG
ANEYLKPLSKESLNCRLDKCLHYMANMQFLSIYNNLDPISGIKNSNALLNCVEDYLN
EIACKEEEFAFAFLDIDNLRNLNEEYGYEVGDKIVKICADEIINETKGRDIVGRYSAE
KICIVLKNISQERAIKILSRIRVNIKKAGILVNLDEVFFTASIGVVFAGSGDKFETLV
DKASKALSQAKANGKDRVEVCS"
gene complement(64875..66398)
/locus_tag="DMACINML_00070"
CDS complement(64875..66398)
/locus_tag="DMACINML_00070"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34787.1"
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AFALSDSEAKLVEIALDDKIDLEEYGIESEDENVFKLLKDKNAKYFINNQSISKSLI
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LTTILEEEKRIEELKELASTQIERISKINPKIGEYEELLNLKKLSKKDKIEAAWEKA
NAIFELEKVVIDALNLSEKDTSFSECLNELRIIAENEKIEDLDFDIEEVLNRIEDLS
SLIKRYESIENALEVLENKKNELAHYDNLSEKKELEKLEKIEKINQSTQLLTQAR
MQNLKTLEDYLNLYLKNLYMKNVSELVNISKITSLGKDEIKLSINAANLKNLSSGEL
NRLRLAFIATECKILNSGTGIIIFLDEIDANLSGKEAMSIANVLNELAAFYQIFAISHL
PQLSSKAHNHFLVEKNASCSTVRKLNKNEERIKELARMISGETITDEALEFAKTLFKA"
gene complement(66398..67258)
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CDS complement(66398..67258)
/locus_tag="DMACINML_00071"
/EC_number="2.7.1.23"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34786.1"
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gene 69099..69674
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CDS  /locus_tag="DMACINML_00073"
     69099..69674
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      /locus_tag="DMACINML_00073"
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gene 69684..70202
      /gene="ppa"
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gene 70250..70750
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/locus_tag="DMACINML_00075"
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gene complement(70975..71850)
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CDS complement(70975..71850)
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gene complement(71840..72220)
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CDS complement(71840..72220)
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CDS complement(72217..72987)
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gene complement(72977..74029)
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CDS complement(72977..74029)
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CDS complement(74032..75054)
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CDS 75177..77111
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gene 77104..78069
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CDS 77104..78069
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 TSFDENLYLAASELNKFSGLRVDEKIIIEQYCYSLNIGSFESFFEKILKRADFKNELEK
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sig_peptide complement(80766..80843)
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gene complement(80833..81177)
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gene complement(81576..81851)
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CDS complement(81576..81851)
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gene complement(82051..82395)
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CDS complement(82051..82395)
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CDS complement(82395..83369)
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CDS complement(83366..84457)
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CDS complement(84441..84722)
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CDS complement(87715..89232)
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KNSKELYEEIQKDEIGARLLENFAKEFPLLNESFELKNNFYSLCLVGRVNLNDENLH
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gene complement(89279..89926)
CDS /locus_tag="DMACINML_00094"
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gene complement(89902..91218)
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/protein_id="Prokka:DMACINML_00095"
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GAGNLIADLFITIFSFLSVGCSVIAQAIGARDLVLARKVIHQSLFLNALLGFVCAVF
IIWQGELLLRLANIPEEKLDGIIYLRMLGICLFFDALGIVLAAIIRVYNMAYWVMFI
GFLMDIIVIIGNFYALHFTQSELLGVGLSNLVARFVAVAALLIILFYKLIKHLKIQEM
IRLEKAVVKKVLNIGGFSAGENLLWIVQYFIAFSFVAKLGSNNDSVQTIYFQISMLIM
LIGQAISIANEIIVGKLVGAKYQNIAYKHAWNALYLSVMASAFVAVLNLFVKDFDTMDL
LDLKPELRELMLPLFTLSIFLEISRTFNIVMVNALRASGDAKFPFFSGLVFMGMVSLP
VGYVLCFHFGLGILGVWIGFCADEFRLRGLVNAYRWKSKKWQKALV"
gene complement(91603..93657)
CDS /locus_tag="DMACINML_00096"
complement(91603..93657)
/locus_tag="DMACINML_00096"
/inference="ab initio prediction:Prodigal:2.6"

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/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:DMACINML_00096"
/translation="MSKKELYEKLIFAIIEGQEVNGVIQAIIRDGAEVDKEIVDIAYGFL
ESLEIEYADDKAFYAGCTAKNSDQDYIYRIVSRYAKGQKLDTIINTMFNRKTNPLKSK
GEIITPKNKRELKLMNKKRQYLGIDIDISNIKDFSELFTDVIRTDFFGGIELWDTNHVV
NMNRMFEKFNFSKIKSDSPLFDWISNMDTSNVSDMGYMFSSQSIGFNTDIGSWNTSNVL
NMSYMFLEAEDFNQINISAWDTSNVLCMVDMFHGAKRFKQINIDNWDVSSINKDYRATNA
KKYKFIDHENLCNYALYENCPTKPKWLMPCCKKENGKYPNTKLELILLAKDKNINLAD
VDISNINDLSLIFLHCERDFSGIESWNTSHVVNMSNMFAYSNMNQDISMWDTSKVAYM
DGMFQNTFPFNQINIDWNISNVKDLSSMFYCAEDFNQPLDKWDTSRVESMHYMFYRALK
FNQDIGLWNTSKVKDMNHMFSNAESFNQINNNVSNVKNMNGMFYTKKFNQPLDKW
DTGKVTNMASMFRRSSKRFNQNISWNVSHVKNFSYMFEEETEDFNQPLNGWDITGTTSL
AYMFSEAKSFNSPLNEWDTSKIKDMTGMFEETEKFNQPLSDWDVSNVETMHAMFSESK
SFNQDISSWNIKSIEDLSYFLHEAKAYTYSLSWRNLNAIDVDNYYIVEGTNIEEPTWY
ES"
gene complement(93945..94685)
/locus_tag="DMACINML_00097"
CDS complement(93945..94685)
/locus_tag="DMACINML_00097"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:APU77476.1"
/codon_start=1
/transl_table=11
/product="phosphate ABC transporter ATP-binding protein"
/protein_id="Prokka:DMACINML_00097"
/translation="MIAKTTNLNLFYGGKQALFDINMQIEQNKITALIGASGCGKSTF
LRCFNRMNDKIAKIDGLVEIEGKDVKNQDVVLRKNVGMVFQQANVFKSIYENISYA
PKLHGMIKSKDEEEALVDCLQKVGLFEVVKDKLKQNALALSGGQQQRLCIARALAIK
PKLLLLDEPTSALDPISSGVIEELLKELSHNLSMIMVTHNMQQGKRVADYTAFFHLGE
LIEFGESKEFFENPKQEKTAYLSGAFG"
gene complement(94682..95770)
/gene="pstA"
/locus_tag="DMACINML_00098"
CDS complement(94682..95770)
/gene="pstA"
/locus_tag="DMACINML_00098"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34761.1"
/codon_start=1
/transl_table=11
/product="putative phosphate transport system permease
protein"
/protein_id="Prokka:DMACINML_00098"
/translation="MKKLFKKRQKASKSFKRLCKMGLYINLIFLCIFLGSVAYLGIGA
FKQTYIYVEADRNSPAYELLSRAEQRKIRTGQITEKSWLLANSEVDQYMKQYNRLNE
EQRALVDNLVQKDEIALRFNTNFFLNGDSKSPENSGILSSAVGTLLVMLVCMASVVPV
GVAAAIYLEEFAPQNLFTHFIEVCINNLASIPSILFGLLGLGVFINLFGMPRSSALVG
GLTLAIMSLPIIIVSTKAALKNVDINMKNAAYALGMTKVQMVKGIMLPLAMPMILTGS
ILTLAIGETAPLMIIGMIAFIPDVASSVLDATSVLPAQIYSWSAMPERAFLERTAA
GIIVLLGLLVVLNLSAVLLRKYFQGKLK"
gene complement(95767..96681)
/gene="pstC"

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CDS /locus_tag="DMACINML_00099"
complement(95767..96681)
/gene="pstC"
/locus_tag="DMACINML_00099"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34760.1"
/codon_start=1
/transl_table=11
/product="putative phosphate transport system permease protein"
/protein_id="Prokka:DMACINML_00099"
/translation="MLKEKIIKFILFLCAFVSVVVSFAIMLTILIEALKFFQKESIST
FLFSSEWAADAAFMNADGTSKQGVFGAVSLFWGTFYISLIAMLTALPLGVMCAIYLGV
FAGKSKNYLKPILEVIAGIPTVVFGFFAAIIIVAPFIVWFFSLFGIQASFQSALGAGF
IMGIMIVPIVASLSQDCIEAVSEKRINGAYALGMTKKEVFAVILPEAIPGIVAACL
GLSRALGETMIVVMAASLRPNLTMNFLDMMTTVTKIVEALSGDQAFDSSLALSASFSL
GLVLFIIITLIINMFSVYLINRFHKKRKNL"

gene complement(96691..97686)
/gene="pstS"

CDS /locus_tag="DMACINML_00100"
complement(96691..97686)
/gene="pstS"
/locus_tag="DMACINML_00100"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34759.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic phosphate binding protein"
/protein_id="Prokka:DMACINML_00100"
/translation="MKKILALSVASFALAGALSAADLKIAGSSTVYPFTSFVAEEYAA
IHNTKTPIVESLGTGGGFKVFCEGITDISNASRAMKFSEFETCKKAGVTDIVGIMVGY
DGIVLAQNKANTPLNITKKELFLALAKEVPQGGKLVNPNYTNWNQINKNLPNRKISVY
GPPSSSGTRDVEELVMSDISKKIPEYKGEYKTIRQDGAYIPSGENDNLIVSKLTIDK
DAFGLFGYGFVSNVDKINAADIDGIKADEKNIADGKYDLARSLFIYINAKKNPKEAF
EFAKIYMSDDLAKSGGELEKIGLVPLNELLKASQKHIEDRKILTDELVKAGKVF"

sig_peptide complement(97624..97686)
/gene="pstS"
/locus_tag="DMACINML_00100"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 21"

gene 98023..98523
/gene="cft"

CDS 98023..98523
/gene="cft"
/locus_tag="DMACINML_00101"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34758.1"
/codon_start=1
/transl_table=11
/product="ferritin"
/protein_id="Prokka:DMACINML_00101"
/translation="MLSKKVVDLLNEQINKEMYAANLYLSMSSWCYENSLDGAGLFLF
QHASEESEHARKLITYLNETDSHVELKEVKQPEQNFKSLLDVFEKTYEHEQSITKSIN"

DLVEHMLANKDYSTFNFLQWYVSEQHEEEALFRGIVDKIKLISDNGNGLYLADQYIKN
LALSKK"

gene 98573..99949
/locus_tag="DMACINML_00102"

CDS 98573..99949
/locus_tag="DMACINML_00102"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34757.1"
/codon_start=1
/transl_table=11
/product="putative acyltransferase family protein"
/protein_id="Prokka:DMACINML_00102"
/translation="MTYFSLEFSILMIVFFAIYWAFKDNYKIQNILILAFSYLIYILI
NPYFALILFIYFFIHFALLIFVRRKRYIFATCLTFIILNLCFFKYFPNIKGSLDQV
LSFLGLDFLNIELILPIGISFYTFASITYLV DVYKHHLESFLNLATFLSFFPTLLAG
PIMRSAFFFEQAYQKREFKHANLIIILLIFGIVKKVLIANYLGIYAKNILDFPQSYNF
IQLLSAIYAYAVQIYCDFSGYVDLVCAFALMLGFTLPPNFNMPYLAKNLKEFWARWHI
SLSTFIRDYIYIPLGGNRKGMPTIANILIAFILSGLWHGSTLAFGLWGLLHGLGIVF
IHLLALTKFSLQKIPALGRFLTFQFVCFTWIFFYFNKNLEDALEYFKACYNFFQIPS
YNDIYMLVSFAVLFMIYPLFVNFREYCVKILNLTPFLLPFVITFILLLVFAFMPNGI
PDFIYSSF"

gene 99950..100930
/locus_tag="DMACINML_00103"

CDS 99950..100930
/locus_tag="DMACINML_00103"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34756.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic protein"
/protein_id="Prokka:DMACINML_00103"
/translation="MKIIRFFFILIIIVFILVCLVMNQSIFS YIEQKYHFAFYPKNDIL
QEANGFKNKLEQIRAILSNEPLPQNI EENIMVQEDMDELNASNDFIDKNTTIEDIQQT
EDENVSFIDNTKLEIHKGDEF LF IGDSL MQGVAIALNRDLIDLGLKANDLSKQNTGLS
YKSYFDWAKATKEAFKPNIKYLVVLVGANDPWDIKKGGVYHRFGSDSWIDIYTYRV
NEIINIQAQHNAKILWFVPPVKDELNEKIQLNKIYSEEILKNKQIFINTKLF FSV
NDEFSTYIKNENNKSVKMRTDDGIHFTPNGAKEMSKLLEHITIKEENAN"

gene 100920..102089
/locus_tag="DMACINML_00104"

CDS 100920..102089
/locus_tag="DMACINML_00104"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34755.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic protein"
/protein_id="Prokka:DMACINML_00104"
/translation="MQIKQFKAILLILIFSINLYANNTNNIIDEILNQTKNQSALSNY
ASKKDLKILEQKLDQKNIGIRIYIGDSHTAADFFPRVIRGYLIKSN SIGFAYPLQPKY
QQNLNLDYSYKNYEILNSRNTDTAGIDFPLGGIIAKAKEKGAKITLDTNLDKCKFKVG
FVFKAQNTNAFSIKDAQNKSYELRSVANKWSYKEYELVFLQISALQKNAQLGGYFI
TSKEDNAYLDTIAINGAKSDLWMSWNKKVSEQELKLLSNDLILLAYGSNDALFKGF EK
NKFKNLKDWIRTLKTYNKNALIMLVSPPTVVKKQGKNYTLAPDFFAIRQALYEVAKE
EKTLLFDMHQFMQDSGGKKNWIEQKLSLQDVHLTIKGYELMAKLLDLDLKKYVHY"

sig_peptide 100920..100985
 /locus_tag="DMACINML_00104"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 22"

gene complement(102159..103523)
 /locus_tag="DMACINML_00105"

CDS complement(102159..103523)
 /locus_tag="DMACINML_00105"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34754.1"
 /codon_start=1
 /transl_table=11
 /product="putative outer membrane efflux protein"
 /protein_id="Prokka:DMACINML_00105"
 /translation="MKNLLSILLAFFLSACGVKLSLPKEPTMSEESFKDLNITYDWYK
 AYDNAKLNFLNFVLLNNSDINTARSTLLAALARADLIDYDLYPTLSANLGLGGDKKL
 NSGVQSKNFNNSLNLSELDIYGKIRDSSSEFSAKASAYDLENLKISMINTALNGV
 FELAYFNDVDNLLKEYLANLEQMRELYAYKFELGKIEELDLNIEQNLLRAKQNLLRN
 EQNRNLLIKNLQDLIGKQEGFAYIDYFKALTLSDFKNLNPFNIPLEALVYRPDVRSK
 LNTLKSFAKDYASVQKSILPSISLNGALNGSDKQFDDSFKEVLSGNIKISLPFLDYG
 RVKQNIKISQFDYESTLITYEQLQSAMNEFALNYKDYQSNTMLLQILKDTSEFKQELI
 TQAYWEKYNLGKSELKDYLDASNTLNSTKQSLLEARFNLLKTINSYYQITALSYDETH
 LEMP"

gene complement(103525..105450)
 /locus_tag="DMACINML_00106"

CDS complement(103525..105450)
 /locus_tag="DMACINML_00106"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34753.1"
 /codon_start=1
 /transl_table=11
 /product="ABC-type transmembrane transport protein"
 /protein_id="Prokka:DMACINML_00106"
 /translation="MIFLNNICKNIGENAILKNVLSLSIEKGEFVAIIIGQSGSGKTSLL
 NIIGTLDEPSNGSYIFDNYEVTQLNSDEKARLRREKIGFIFQRYNLLNLLSANDNVTL
 PAVYAGKKVQERNFRAQELLGNLELEHKIESKPNELSGGQQQRVSIARALMNGGELIL
 ADEPTGALDSKSGIMVLEILKKLNAQGHTIVLVTHDPKIAAQAKRVIEIKDGEILSDS
 KKDKFAYQGQVKSMPEKKTFTLFKNQAFECKIAYSSILAHKLRISILTMLGIIIGIA
 SVVCVVALGLGSQAKVLESARLGTNTIEIRPGKGFGLRSGKTRLNFSDLLETLRSLD
 YLEAVDAHSNTSGVATYTNISLSARAEGVGVNFAIEGLKLQVGRILNNEIDIETNAV
 AVLDFNAKRNLFPHQKSEDLGRVVFNSQPFIIGVLQKDTEKPIEDNVVRLYMPYT
 TLMNKLGTDRNLREIIVKVKDDVSSTLAENAIIRILEIKRGQRDFFTFNSDTFKQAIT
 ANKRTTITL TASVAVIALIVGGIGVMNIMLVSVSERTREIGIRMAIGARREDIMMQFL
 IEAVMICSMAIGVLLSIFVIFGFNTLSTDFPMVLNAYSVLLGLLSSVLIGVVFVGF
 PARNAANLNPIALSKE"

gene complement(105450..106625)
 /gene="macA"

CDS complement(105450..106625)
 /gene="macA"
 /locus_tag="DMACINML_00107"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:SQE24135.1"
 /codon_start=1

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/product="amidohydrolase"
/protein_id="Prokka:DMACINML_00107"
/translation="MKNKIVLIVVILALFGVGAYFVFFNNGEKINYLTQKVKKINISQ
TIEAVGKVYAKDQVDVGAQVSGQIIKLYVDVGSYVKQGDLIAQIDKDKQNDLDITKA
QLESAKANLESKKVALEIASKQYQREQLYAAKASSLENLETQKNNFYTLKANVAELN
AQVVQLEITLKNAQKDLGYTTITAPIDGVVINAVVDEGQTVNANQNTPTIVRIANLDQ
MEVRMEIAEADVGKIKIGTELDLDFSLSDPQKTYQASIASIDPDTQISDSSTNSTSSS
SSSSSSSSSNNAIYYYAKFYVANKDDFLRIGMSIQNEIVVASVKDVIAPPTYTIKNDK
KGYVVEILQGQKAVKKYVKLGKIKDSVNTQILEGLSEDELLIVSSSGSDAAPKLRLRF"
gene complement(106708..107898)
CDS /locus_tag="DMACINML_00108"
complement(106708..107898)
/locus_tag="DMACINML_00108"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34751.1"
/codon_start=1
/transl_table=11
/product="putative amidohydrolase"
/protein_id="Prokka:DMACINML_00108"
/translation="MLERVKNLSDKYEYKIVNLRHQIHMHEPELEFEEENTARLVCEIL
DEFGIKYEKNIAKTGILASIEGKKQSTKKPQCVLLRADMDALPVQEQTNLASYASKING
KMHACGHGHTAGLLGAVLILNELRDEFSGTIKFMFQPAEEGSGGAKPMIEAGILENP
HVDVAVFGCHLWGPLLNTAQIVSGEMMAGVDVDFLEFIGKGGHGAHPHTTIDPIVMAS
KFVSDVQCIISRRLRPVDAGVITIGKFHAGTTFNVIPQNAILQGTVRFLSDENQKLLQ
SSIENTAKAVALEFGGDFKLDYKREYPLINDENAACKIARKAFSKVLGEQNIISVAKP
DMGAEDFAFLTRRMGAYVFGISKDLKNPTLHHSSTFCWEDENLKVLMQGDSSMMAL
EFLNS"
gene complement(107903..108784)
CDS /locus_tag="DMACINML_00109"
complement(107903..108784)
/locus_tag="DMACINML_00109"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ADC28217.1"
/codon_start=1
/transl_table=11
/product="putative polyphosphate kinase"
/protein_id="Prokka:DMACINML_00109"
/translation="MQEKVPAKIQEDTKKDEIYVSIKKKKSTIEYEKDLKLNQIELLK
FQNYVKAKGLKVLILIEGRDAAGKGGAIKRLIEYLNPRGCRVVALEKPNQVEKTQWYF
QRYVTHLPSAGEIVIFDRSWYNRAGVEPVMGFCTPQQHKDFLREVPLFENMISNSNL
MFFKFFYFVSKEEQRRFEKRRIDPLKQYKLSVDPQKSQELWDKYTLAKYSMLLASNTP
TCPWTIISDDKKARLNLLRFILSKVDYADKKIGDFSKIDQLVRSGEIEIRKMEAN
LEKIDNKKADEKIKDLD"
gene 108879..110579
/locus_tag="DMACINML_00110"
/EC_number="1.8.1.8"
/locus_tag="DMACINML_00110"
/EC_number="1.8.1.8"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34749.1"
/codon_start=1

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/protein_id="Prokka:DMACINML_00110"
/translation="MRFIFTLFSCYFLFASVLSLNEAFEVKSSSYDSAVSIDIKLGK
DIYLYSDKLLYINQNDISHLINLPPSTQRLNEKVYYQDLNLALPSLLLERFAQSQNN
QIKLEFQGCSEQGLCYNPQTWYFDLKHKDKNFEISAPYKEKKKTLQVKSEESMIANFL
ATDKLFWILLSFLGYGLLSLTPCILPMIPISSLIVAKSETKFSKKHSFFLSFIYVF
SMSLAYAIAGVIASFLGASVQGLLQKPSVLIFFALIFVLLALAMFESFRFELPLKFQN
FLHKKSEKGGKVLGVALMGFLSALIVGPCVAAPLTGALIYIANTGDALLGASALFVMS
FGMGIPLLFIGLGLGFLKAGAWMQVKIFFGFVMLAMAIWILSRIIETRYILIAFGIL
GVFFSVFMGIFEQAFSVITKIKKSLILVLAYSLSIFLGGIFGAKNFLNPLNLSNTL
LNSSKLNYNFINDLNALQKEIKTSTRPIMFNFTASWCENCKLDELTFSDKEIQEKLK
NFHLIKIDLTQNSDKDLEIMKEFGVFGPPVLIFFENGKENLRITGFISADDLLQKLTK
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sig_peptide 108879..108929
/gene="dsbD"
/locus_tag="DMACINML_00110"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 17"
gene 110576..111244
/locus_tag="DMACINML_00111"
CDS 110576..111244
/locus_tag="DMACINML_00111"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34748.1"
/codon_start=1
/transl_table=11
/product="MOSC-domain containing protein"
/protein_id="Prokka:DMACINML_00111"
/translation="MKIKSLQIGHIKDYGGFKSAFIKNIYLKEVDIDFSGIINDNIAD
TKHHGGKNKALFANSYHNYPLWENFLGKKLECGMMGENLTLENLHEQNVICIGDIHRFE
DAILQVSEPRKPCVKISKIHHNPFTQEIFKTGLSGWYYRVLEGRKIHAKSKIQLIER
NPINLSVLELNHLFYNP HQALKQNPTLLEKLSKLDTLISQNW HETIQKRLKNTYDLNY
MQNL"
gene 111295..112638
/locus_tag="DMACINML_00112"
CDS 111295..112638
/locus_tag="DMACINML_00112"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34747.1"
/codon_start=1
/transl_table=11
/product="putative sodium-dependent transmembrane
transport protein"
/protein_id="Prokka:DMACINML_00112"
/translation="MQRQTSSTLYILT VAGATIGFGATWRFYPYLVGENGGGAYVLV
FCIAMILIGIPVILAENVIGRKSMTNSVDAFEGKWKFIGYMGLLGSFGIMAYYMLGG
WVFVYVFELIIGNFNLSHTVTKDFTEQFFNEKISFNPLGVGIFTTLVFLINYIILRRG
IIDGIEKSVKFLMPLLFICLILVVRNLSLEGAMNGVKFYLTPDFDKILSRKLLIDVL
GQVFFALS LGFVMITLSSHLSKNENMKTAIYTGVLNTLIAVLAGFMIFPALFAAGL
EPDKGPSLVFQTLPIAFSHIHFGTIICILFFILLLIAALTTSLPIYQVIISVLEEKFK
LSKKTAINLTLGSIFILGNIPCILTYGWRDITLVKGKNIFDSFDFISGNILFVLTAF
FCCIYVGWVLGKEQSIKELSNEGKLSVGFKIWFYIYKFIIPLIILTIIFYGVNTN"
gene 112926..114188

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CDS /locus_tag="DMACINML_00113"
 112926..114188
 /locus_tag="DMACINML_00113"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ADT73021.1"
 /codon_start=1
 /transl_table=11
 /product="Major outer membrane protein"
 /protein_id="Prokka:DMACINML_00113"
 /translation="MKLVKLSLVAALAAGAFSVANAAPLEEAIKDIDVSGVLRVRYES
 GRFGKDLNLVNGSSLNTSKQECHKYRAQLNFSGAIADNFKAFVQLDYNSKDGQGVVDSI
 SNTSDTLNVRQLYLYTDENVATSVILGKQQLNTIWTDNAIDGLVGTGVKVVNNSIDG
 LTAAFAVDSSNEAVHTTTNPKGDTDASPFLNWNKNIYGGAAVGSYEVFNGQLNPQLW
 LAYMTDNAFLYAVDAAYSTTIFDGVNWTLEGAYLGNLSDNELKDAGFGNGNF FALNGG
 IEVNGWDATLGGLYYGKKDKGTVTVIEDQGNIGSLLAGEEIFYTQGSQNLNGDIGRNIF
 GYVKAGYTFNETVRVGADVFYGGTKTDSTVTGHAGGGDKLEAVARVSYKYSPLNFSA
 WYSYVNVNDNGDQGEQDHNTVRLQALYKF"

sig_peptide 112926..112994
 /locus_tag="DMACINML_00113"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 23"

gene complement(114328..115452)
 /gene="dnaJ-2"

CDS complement(114328..115452)
 /gene="dnaJ-2"
 /locus_tag="DMACINML_00114"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:EAQ72629.1"
 /codon_start=1
 /transl_table=11
 /product="co-chaperone protein DnaJ"
 /protein_id="Prokka:DMACINML_00114"
 /translation="MELSYEILEITQSADKDTIKKAYRKMALKYHPDRNQGDKEAED
 KFKLVNEAYEVLNNEEKRAIYDRYGKDALKGGGFGSGGAGFGGFEDLGDIFSSFFGGG
 FGGSSQRRKKSDEKFAELVNLKLTKEAVFGCKKNIDFTYKSSCKTCSGTGAKDG
 KLQTCPKCKGRGQVGISQGFITFAQTCPCDKSGESASEKCKDCKGRGYEELKDSVEV
 NIPEGIDNGMNLVAAKGNLSKSGNRGDLVYKVIVEEDDTFIRDDEDIYIEFPVFFFTQ
 AILGQSIKVPTIRGEATLNLPKGAKDGQRFVLEREGVKDVHSSRIGNQIVQIAIKFPN
 SLNDEQKELLEKLSSEFSGIKDGMHHEQKGLFEKITHWFKS"

gene 115598..116269
 /gene="racR"

CDS 115598..116269
 /gene="racR"
 /locus_tag="DMACINML_00115"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35376.1"
 /codon_start=1
 /transl_table=11
 /product="two-component regulator"
 /protein_id="Prokka:DMACINML_00115"
 /translation="MINVLMIEDDPDFAQLLSEYLTQFNKITNFENPKEALNVGIQG
 YDCLILDLTLPIDGLEVCREIRQYNIPIIISSARGDLSKVVVGLQIGADDYLPKPY

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gene 137730..138836

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 /note="tRNA-Met(cat)"
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 /locus_tag="DMACINML_00137"
 CDS 139328..139591
 /locus_tag="DMACINML_00137"
 /inference="ab initio prediction:Prodigal:2.6"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_00137"
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 CKKMEKMNETQQRDCSNANEAVLFQRDKNNKFYQSSPEAFEWK"
 gene complement(140544..141023)
 /locus_tag="DMACINML_00138"
 CDS complement(140544..141023)
 /locus_tag="DMACINML_00138"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AON64954.1"
 /codon_start=1
 /transl_table=11
 /product="TPR repeat protein, Sel1 subfamily"
 /protein_id="Prokka:DMACINML_00138"
 /translation="MIVKNIKISNNIALKGLMVMKYFIFVFTLIPVCVYSNDNYFDL
 GKEQHKQGNYSKAKQYYEKACELNIKEACNGLGLLYFDGDGVKQDRTQAVSYFKKACE
 LEYGEACGILGLLYLDGDGVKQDRTQAVNYFKKACELGYGETCDILGLLYLDGDGVK"
 repeat_region 141296..141925
 /note="CRISPR with 10 repeat units"
 /rpt_family="CRISPR"
 /rpt_type=direct
 gene complement(142072..142470)

CDS /locus_tag="DMACINML_00139"
 complement(142072..142470)
 /locus_tag="DMACINML_00139"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35625.1"
 /codon_start=1
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 /product="putative CRISPR-associated protein"
 /protein_id="Prokka:DMACINML_00139"
 /translation="MFDIPTKSKKEQKSANKFRVSLVKLGFMMQFSVYVKICKGMTS
 AKTAIKSVERILPPCGNIRVLTITEKQFDNMQILLGGVSNFNEKMNDDKNLVLFEYDEK
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gene complement(142490..142732)
 /locus_tag="DMACINML_00140"

CDS complement(142490..142732)
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35626.1"
 /codon_start=1
 /transl_table=11
 /product="putative CRISPR-associated protein"
 /protein_id="Prokka:DMACINML_00140"
 /translation="MIEVFRPLVDLCVFDLKDIKESEFLDKEAKQRLIGILQEEIIIE
 NKAYPLNRAINFYIQNFKNALLENDELMMVNLYDRR"

gene complement(142852..143244)
 /locus_tag="DMACINML_00141"

CDS complement(142852..143244)
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ADT66761.1"
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 /product="CRISPR-associated protein Cas1"
 /protein_id="Prokka:DMACINML_00141"
 /translation="MAYDEAFKSILISNQAKLSLEFNHLVIKQDDKEAKFFLKDINFI
 ILESLQASITSSLLSALAKYKIILLTCDESHHINGIFSPFLGHFISAKVAKKQIKVTL
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gene complement(143234..146236)
 /locus_tag="DMACINML_00142"

CDS complement(143234..146236)
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 QSVGEYFYKEFFQKYKENTKDFINIRNKEGSYENCVLASDLEKELKLIKQKEWGSY
 YDNDFIKEILKVAFFQRPLKDFSylVGACTFFEDEKRACKNSYSAWEFVALTKIINEL
 KSLEKESGELVSSQIINEILNHILDKGSITYKKFREYIKLHESMKFKSLKYDKDNAES
 AKLIEFRKLVEFKKALGEHSLTREELDQIATYITLIKDNEKLIKITLEKYSLNNEQIKN

LIEIDFNDHINLSFKALNLIPLMKEGKRYDEACKLLNLKTKSNNQKFDLPAFCDSI
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 NYENNIWALNECENFGLKANAKNILKLLKWLKEQKEFCIYSGKKISIEHLRDEKALEVD
 HIYPYSRSFDDSLNKVLVFTKENQEKLNKTPEAFGANEERWSKIQALAQNLPHYKKK
 NKILDEAFKGGKQQDFISRNLNDRYISTLIVKYTKEYLDLPLDEKEDINLKSGEKG
 SKIHVQTINGMLTSLRHTWGFAQKDRNNHLHHALDATIVAYSTNAIIKAFSDFKKEQ
 ELLKAKLYAKELTNSYKHQAKFFEPFEGFREQILNQINKL FVSKPPRRARGALHKE
 TFYPKDEMIKKYNSQEGVEIALNCGKIRKIGTKYVENDTMVRIDIFKKQNKFYAIPY
 TMDFALGVLPNKIVIAGKDKKGNPKQWQEIDESYEFCSLHKDDLVLIQKKDMQEPEF
 AYYNSFDIGNSSICVEKHDKNFENLTDNQKLLFVNAKEGSVKAEKLGIOGLKIFEKYI
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gene complement(146318..147691)
 /gene="dnaB"
 /locus_tag="DMACINML_00143"

CDS complement(146318..147691)
 /gene="dnaB"
 /locus_tag="DMACINML_00143"
 /EC_number="3.6.1.-"
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 /inference="similar to AA sequence:RefSeq:ABS44015.1"
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 /transl_table=11
 /product="replicative DNA helicase"
 /protein_id="Prokka:DMACINML_00143"
 /translation="MQQEHFDLDERAILSSCIMSEDAYSSIAGDIEPKDFSLKAHQD
 VFKAIIACVNAGEPISISFLKXKXKIDEQILTEIIATPSIIDLPAYVNELREKSIKRQ
 LLSFAHLLPTRINDNRAVSEISDEIGKEIFNITNRVNTNDIKDIEIVLSELLEEFKKQ
 KSLENKSVIGLDTGFEDLNTMTKGFKGGELIIIAARPGMGKTTLCLNFIEKVLQRDQK
 VVMFSLPAAQIMQRMLSAKTSIPLQKILTADLNDNEWERIGDACNYYSKXKLFYD
 SGYATITDVRAILRRLKAQEEISGLCVIDYIGLMMNSNFNDRHLQVSEISRGLKLLA
 RELDMPIIALSQLNRSLEQRANKRPMSDLRESGAIEQDADTILFVYRDEVYREQDEK
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 ESVEFQE"

gene 147836..148765
 /locus_tag="DMACINML_00144"

CDS 147836..148765
 /locus_tag="DMACINML_00144"
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 /inference="similar to AA sequence:RefSeq:ADT65897.1"
 /note="conserved hypothetical protein"
 /codon_start=1
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 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_00144"
 /translation="MKKTLFSFALASLFVSQASSIEFQSGLSGNLSLIGIGARDVKSNI
 SPLANSNYLGGYNAKNSDTAAIPFIGLELYGNLIDNDRVFLKNYNGRDLSGIALGYE
 RAYLERFSTSFSSISLREKAYANPYFIGNREETDVSKYGRISQLYESDFGKFNASY
 VFAKNKLDKESIEFDSLKREGNYHELELSYNSLLNLGLIYDYNADGKAQSYSRYGF
 KIGTHLVFARNYILTPSLSLNQYKADGTDPIFNQKQDGSITKFNLLVKNQFLGYDSL
 YGFVNYGLEKRNSDIDFYDETYHILLTGVGKFK"

sig_peptide 147836..147892
 /locus_tag="DMACINML_00144"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 19"

gene complement(148788..150119)
 /locus_tag="DMACINML_00145"
 CDS complement(148788..150119)
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34706.1"
 /codon_start=1
 /transl_table=11
 /product="putative MATE family transport protein"
 /protein_id="Prokka:DMACINML_00145"
 /translation="MSNIFSTLSPFRLFVKCAVPNVISMAFISFYIYVDGIFVGKYLGN
 DALAALALIIPFIMISFALADMIAIGSAVQISMHLGLGKKHLARKIFSSSMLIIFLI
 SCLVGILEYLLSPVLINFLDVSEDIKSMKECMLVFALFAPFTMCSFALDNYLRICGK
 TTYSMMMNVIIALSNIIVLDYIFIVVLGWGLFSAALATCLGLMLGGIFGIFPFLFQNL
 LKFSSLYMNMKIFKNIVYNGSSEFFGNISGSLYGIFANLVLLKISGTQVAFAAFSIVSY
 IDNFIIIMLIAMGDAMQPALSINYAKKDFSRIKDILKVMFFAGAILSLLSIVMIFVCG
 KDLVGLFTQEGDQEFIIIFAYMALMLFSFNFLFAWFNVLSGSFLTASNKASFSLILSLS
 QNLFIPLCFLLILSSIMGLKGVWLSPPFAELCVLILACIFVRKVKFKLSFL"
 gene complement(150345..151280)
 /locus_tag="DMACINML_00146"
 CDS complement(150345..151280)
 /locus_tag="DMACINML_00146"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34705.1"
 /codon_start=1
 /transl_table=11
 /product="putative pyridine nucleotide-disulfide
 oxidoreductase"
 /protein_id="Prokka:DMACINML_00146"
 /translation="MKKVDLIVGAGPTGIGCAVEAKLNKNEVLVLEKSNNICQTLMO
 FYKDGKRVDMAKYGCEGTNHGHVFPQDGTKESTIETFQNALNEHNIIEVEFGSEVESVK
 NENGVFLVSTGKGVYECKNIIVAIGRMGKPNKPDYKLPGLTKIINFNANSVLGDEKI
 LVVGGNSAAEYAVDLANSNKVSLCYRKEFTRLNDINLKDIEAGNSGKVELKLGID
 IEELEDDNGKAKVKFNDGSSETYDRIIYAIGGSTPLDFLQKCGINVDDKGVPLMDENK
 QSNVKGIFVAGDIATKNGASIVTGLNDAVKILAVI"
 gene 151351..152583
 /gene="proA"
 /locus_tag="DMACINML_00147"
 CDS 151351..152583
 /gene="proA"
 /locus_tag="DMACINML_00147"
 /EC_number="1.2.1.41"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34704.1"
 /codon_start=1
 /transl_table=11
 /product="gamma-glutamyl phosphate reductase"
 /protein_id="Prokka:DMACINML_00147"
 /translation="MRNLLENIKNSQKLLNLTPKDKENIILKLAHTLRKNFKTILES
 NEKDITNFTKSGAMRDRLLLDEKRIFSLCDALEKIAYLEDPIGKISKGWVNYAGLKIE
 KISIPIGLISVIYEARPSLSAEIIALMIKSSNACVLKGGSEAKFTNSAIFDLVYKVL
 EFNLQDCFAMFYERNEIMQILAFDDLIDVIIIPRGSSNMIQEIASHTKIPLIKQDKGL
 HAFVDESANLNMALEIILNAKQQRVSVCNALETLLIHEKIAKDFIELLIPEFEKFKVK
 IHAHENILEHFKNKLEISKADESTFDTEWLDFAISVKSVDKDCDEAIEHINQHSSLHS

ETIISNNALNINKFQRLLRSSCIYVNASTRFSDGGEGFGGGEVGIKSTSKLHARGPMGV
 EDICTYKYLISGEGQIRK"

gene 152580..153665
 /locus_tag="DMACINML_00148"

CDS 152580..153665
 /locus_tag="DMACINML_00148"
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 /inference="similar to AA sequence:RefSeq:CAL34703.1"
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 ERMDLGLIAMIGIMAFVYTTNTPMYHRMAVTMCCSFGLCLSFLIGLCTHFFPAFSPLI
 IGLVAMASSILIRYYNIGAPGYFFFVFSCLLASFFPFAKDYIFLVGLICIGGIIANI
 AAFLYSVSVIYIFKNSPKPVLQNGNLGFDIIFVDSIIIAFFVGFVFLGAFLELDRS
 YWVAVSTTVILQGANLKSVMKQLQRILGTTVGILFAWLLKIKFTPLEFVLLMMFLA
 FIIIEFLVVRNYALTVIFLTPYVTYLAEAAFGNLSVDMLIHARLQDIIIGSLLGLLGG
 FVIHKPYLRKYFEYIAKYIFRVRLANR"

gene complement(153776..154345)
 /gene="efp"

CDS complement(153776..154345)
 /gene="efp"
 /locus_tag="DMACINML_00149"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34697.1"
 /codon_start=1
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 /product="elongation factor P"
 /protein_id="Prokka:DMACINML_00149"
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 SFIDGKVLKTFHAGDKCEAPNLEEKTMQYLYDDGENCQFMDTESYEQVAISDEDVGE
 AKKWMLDGMVDVLFHNGKAIGVEVPQVVELKIVETAPNFKGDTQGSNKKPATLETGA
 VVQIPFHVLEGEVIRVDTVIRGEYIERANK"

gene complement(154780..155052)
 /locus_tag="DMACINML_00150"

CDS complement(154780..155052)
 /locus_tag="DMACINML_00150"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34696.1"
 /note="hypothetical protein Cj0550"
 /codon_start=1
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 /product="hypothetical protein"
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 /translation="MKQWLSDFKLALIQEDVKNLEGLLNTLDLKKMLEDLARDFQSDE
 LKDKLNDNLSQIKALLQEAVLISEKKNSKACEIQKIQKALKYFKD"

gene complement(155036..155419)
 /gene="fliS"

CDS complement(155036..155419)
 /gene="fliS"
 /locus_tag="DMACINML_00151"

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/protein_id="Prokka:DMACINML_00151"
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EDIEQRVHFVKRTTAIFIELINTLDYEKGGGEVAHYLSGLYTREIQLLSLANLENNEAR
IDEVINVTKGLLEAWREVHSNEAMA"
gene complement(155429..157378)
/locus_tag="DMACINML_00152"
CDS complement(155429..157378)
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/inference="similar to AA sequence:RefSeq:ALW55331.1"
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/transl_table=11
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/protein_id="Prokka:DMACINML_00152"
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KINSATGGEIVAKMVNTGEKDTPYRLTLTSKETGEDSAISFYPGAKDSSGKYAVDENA
KSVFESLQWTLDDNALNAEGFDPATSKKGVGIIDDAENPLHIQQAQANFTMDGIKMT
RSSNTITDIGVGITLTLNKTGEINFDIQQDSEITQAMQEMVDAYNDLVNLNAATDY
NSETGTGKSLQGVTEVNSIRSSIVSILFQSQSVDGTVEDASGNKVSQKMLSLQDYGL
SMTESGTLNFDSSAFESKVKEDTAMAESFFSGITQYKNINHTGELIKQGSLENYLNKV
EGDDNGISFDSGKFQIVSDFETYDLSKNADGTAFKLSGATEQEMLQNLADHINSKQIE
GLTVKVESYNQNGETGFKLNFKTDGNADFAIKGDNDFLKQFGLSQVSIAAEAVEGAGV
FAQLKTTLQGITGTDGSLTKYDESLTNDTKALTESKESAQKLIIDTRYETMANQWLQYE
SILNKLNQQLTTVTNMINAANNSNN"
gene complement(157380..157748)
/locus_tag="DMACINML_00153"
CDS complement(157380..157748)
/locus_tag="DMACINML_00153"
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/inference="similar to AA sequence:RefSeq:CAL34693.1"
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AMRLAEYFRDVIQGMIFDKES"
gene complement(157910..159715)
/locus_tag="DMACINML_00154"
CDS complement(157910..159715)
/locus_tag="DMACINML_00154"
/EC_number="4.1.1.-"
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/product="putative 3-octaprenyl-4-hydroxybenzoate
carboxy-lyase"
/protein_id="Prokka:DMACINML_00154"
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LFKNPVDKRNNKQYKFPVLMNAFCNEKALNLAFGRDYKEVADEISKLTCLHIPTSFKA
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LYIWCSQAPLPKGIPELLYGFYIKKTPAKLTPCENGIFVPYDSDIVIEGYVDLEEFKI
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LLQTSVPLIDYKMPENGVFHNLILAKIDAKYPAHAQQIMHAFWVGQMSFVKHAIFFV
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gene complement(159712..160638)
/gene="hemC"
CDS /locus_tag="DMACINML_00155"
complement(159712..160638)
/gene="hemC"
/locus_tag="DMACINML_00155"
/EC_number="2.5.1.61"
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/protein_id="Prokka:DMACINML_00155"
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FDAIILAMAGIKRLDLKQVNFVYAFSKDELIPAASQGALGIESIDDEKILEFLKCLN
DDNALIETTIEREFIATLEGGCQVPIGINAELLNDEICVRAILGLPDGSEILKEKRMI
KKSEFKGFGESLAKEFIAKGAKEILKKAESMI"
gene complement(160635..161021)
/locus_tag="DMACINML_00156"
CDS complement(160635..161021)
/locus_tag="DMACINML_00156"
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/inference="similar to AA sequence:RefSeq:CAL34690.1"
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/transl_table=11
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/protein_id="Prokka:DMACINML_00156"
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RYKRNYRQNNTSDEEIIDVEIIEEK"
gene complement(161018..162724)
/gene="proS"
CDS /locus_tag="DMACINML_00157"
complement(161018..162724)
/gene="proS"

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/inference="similar to AA sequence:RefSeq:CAL34689.1"
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/product="prolyl-tRNA synthetase"
/protein_id="Prokka:DMACINML_00157"
/translation="MKFSKLYAPSLKEAPKDATLPSHIFLTRAGFVEQIGSGLYNFLP
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YSFHANEEDLTREFDLMHKTYSQILQRMGLEFRAVDADSGAIGGSGSKEFMVLAKNGE
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YTIKAVVKKAIYENENKLVVFFIRGCDDLQETKAQNACNALELVDASEEELEKAGLVA
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DCCAKCGGKRLRSKGIEVGHIFKLGQKYSKAMNANFLDENGSKSPFYMGCYGIGVSRL
LAVAI EANHDEKGC IWNKTLAPFTLEIIVSNIKDEKSLEFATKLYEDLSNVGIEVLLD
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gene complement(162714..164009)
/locus_tag="DMACINML_00158"
CDS complement(162714..164009)
/locus_tag="DMACINML_00158"
/EC_number="1.2.1.70"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34688.1"
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/transl_table=11
/product="glutamyl-tRNA reductase"
/protein_id="Prokka:DMACINML_00158"
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LVISTCNRVEIVAYVKEACA EYIIKSLALLCNVDKESLVQKADIFEDSGAIHHLFSVA
SSLDLVLVGETQIAGQLKDAFALKNFCAVHLSRAIHSFAKCAAKVRNETQISKNP
ISVASVAVAKAKELLPLEGKSAIVIGAGEMGELA AKHLIAAGARV IILNRDIEKARIL
CERLGVLSECDLNNLKKYLDEYELFFSATNASSAIITNSLIDEVSHKRYFFDI AVPR
DIDVSENEKVSFVAVDDL EVVVRNNLALREQ EARMAYGIIGRETAEFFRYLNDLALTP
IIKAI RLQAK ECANKQLQIALDKGYL KHSDEEEARKLIHQVFKAFLHTPTINL KHLQG
KMQSDTVINAMRYIFALENNLEGLNQYACEFNMENNDEI"
gene complement(164009..164902)
/locus_tag="DMACINML_00159"
CDS complement(164009..164902)
/locus_tag="DMACINML_00159"
/EC_number="2.5.1.-"
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/product="polyprenyl synthetase"
/protein_id="Prokka:DMACINML_00159"
/translation="MQPIDDLIKQYLQELDYEPVLTMLANTKSGKKLRSKLLLA IAGE
NANSYKICAAIELIHLASLLHDDI IDESKLRRGAKSVNAEFGTKNALMLGDILYSKAF
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RCGAILAKLDEKAFGEYGKNLGLAFQMIDDILDIKGEKTLGKPMNDFKEGKTTLPY
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sig_peptide complement(165387..165449)
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gene complement(165449..165712)
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CDS complement(165449..165712)
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 /inference="similar to AA sequence:RefSeq:CAL34685.1"
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gene complement(165841..166398)
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CDS complement(165841..166398)
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 /inference="similar to AA sequence:RefSeq:CAL34684.1"
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 oxidoreductase"
 /protein_id="Prokka:DMACINML_00162"
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gene complement(166395..167240)
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 /locus_tag="DMACINML_00163"

CDS complement(166395..167240)
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 /inference="similar to AA sequence:RefSeq:CAL34683.1"
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 TKAAGASVARGNVEANKLENLIYKALAHKGYSFVDVFSNCHINLGRKNKMGEAVAM
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gene complement(167242..168366)
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CDS complement(167242..168366)
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 MTPVFLLMDETVGHMNGKAVLPDLKDIEIINRKKFTGDKKDYKPYAAGENEPATLNPF
 FTGYRYHVTGLHHGDIGFPTEDGAIVKKNIERLIGKIKNNQDDICTYEEYMLDDAEFL
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gene complement(168375..168686)
 /gene="oorD"

CDS complement(168375..168686)
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gene complement(168701..169570)
 /gene="sucD"

CDS /locus_tag="DMACINML_00166"
complement(168701..169570)
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AANQVVQGGYGISTAVGIGDPDIIGLAYKELLSEFEKDNETKAIVMIGEIGGSLEVEA
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gene complement(169580..170743)
/gene="sucC"

CDS complement(169580..170743)
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LEVAKVLGLDKDESKKLISMIKLYKLYMDKDMNMLEINPLIKTAEGDFYALDAKCSF
DDSALYRHPAELRDITEENPAEREADEFGLSYVKLDGDVACMVNGAGLAMATMDII
NYSKAKPANFLDVGGGASAETVAKAFEIILRDKNVKVFIFINIFGGIVRCDRIANGILE
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gene complement(170740..171648)
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CDS complement(170740..171648)
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/EC_number="1.1.1.37"
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KKIKFNSDPLFIILTNPVDFLLNTLYESGIFSSKKIVAMAGVLDNARFKYEVAKKLLK
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LKTSAYLAPASACVRMLESIRSGEFLPMSVILHGEFGVQNKALGTMARLGLGEGVVEIM
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          /locus_tag="DMACINML_00169"
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EFNPNSKTRVSYMKEGDFFSNEKAVLIDEDCVASIEFVADSGKSEILKEGLKLEKNEI
LDATFMDVEKLQDFYAQEIKASKDNDLLFSLHLKATMMKVSDPILFGYAVKIFFKELF
DEFKDEFETLGINPNNGLSELLSKVETSSKKDEILKRYNEILNSRADISMVNSDKGIT
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ILAPYEACLKSLLEIRAGKDAISITGNVLRDYLTDLPFIELEGTSAKMLSVVPMNGG
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gene      complement(173966..176536)
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CDS      complement(173966..176536)
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SINARSEFYNFKGQASGDLIDFKVNISYKNQNLAYKFEDINIRDITTFNQAEKRITL
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DGRVVFNRKDLLSFEAINLNGDSMDLYGLGSANLRLNTVDVDLELKTLSASETISK
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 /protein_id="Prokka:DMACINML_00172"
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 gene 177968..178462
 /gene="flgC"
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 /gene="flgC"
 /locus_tag="DMACINML_00173"
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 REVIFKATDFDKLLNEQINKDNNFLKYENPLNDPSSPEEAKPAIQSVVVDKVVRRDDKD
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 LLRG"
 gene 178469..178768
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 CDS 178469..178768
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 /locus_tag="DMACINML_00174"

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/product="flagellar hook-basal body complex protein"
/protein_id="Prokka:DMACINML_00174"
/translation="MNNINDLRLNNSISNTNKSQNSSDRIGDEFKMLKNEIEDLDKT
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gene 178774..180579
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      /locus_tag="DMACINML_00175"
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     /locus_tag="DMACINML_00175"
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DQYSIALRGNIIITKDNFTITSSRQIYRAEIDLR SINKDKFDLFLKLFQIYSGISDSEI
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LSIIIEHEEDRIYMSKDALTPAIGYTKMVLDPQSGILKNVGVKGLEKYDACLNPLQNE
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VGVMSKTGQILALASSRRYDPQNRGKDL SVLNASAI EYGYEAGSVIKPFI FTALRL
GK LKTDEVINTYGGAYKLGRFTIRDDHKMDQMTMEEVIRYSSNIGMIQIAKRLSNLEI
IAGLKIFKFGKSGIDLPEYQKGEIPNSKRLRDIEKSVLSYGYGLKTTFIQLLAAYNV
FNNNGVYITPHLAEKFYQDGRFVSL EEDIKKEVILTPQAAQTMQKILIDVIEKGTGKK
AITQGI IIGGKTGTARIAERQGYTSNRYNASFFGFANDAKHNYTIGVLRNPTKPYSY
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gene complement(180572..182374)
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CDS complement(180572..182374)
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LLTGIIQSSTATIAIIVAALLAGQISFENSLAATLGTSVGGVTVAVLASLSTNVEGKK
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HIDDELKNHRIFTFKIAAKNLTEATKNLKL VQENIKKYSNCNNKDLALEYNKIRSNLG
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gene complement(182355..182789)
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CDS complement(182355..182789)
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 /translation="MIGLYLLIAALSFLLLYFALKKLTLNIDEKALLEPIKSDIYPKF
 CDIIDERIREFKDRIQNNSSALKDQDRKDELLEKLGDL SRELTFIQTMNLSNKS DSVW
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gene complement(182786..183106)
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CDS complement(182786..183106)
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 /protein_id="Prokka:DMACINML_00178"
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 NHGLLNANFLEEFQTRRDKNKKLAFICRGGHRSMM AANFIKNELGLESVNLDGGMLAL
 KGWI"

gene complement(183103..184932)
 /gene="htpG"
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CDS complement(183103..184932)
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 /inference="similar to AA sequence:RefSeq:CAL34665.1"
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 EEQGTSITLYLKDDEFANSYKIESIIEKYSNHIQFPIMEKEEFIPAKEGEEEGKTEL
 KISQINKANALWRMQSSLKAEDYERFYEQNFHDSNKPLLYLHTKSEGLKLEYNLFFI
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gene complement(185005..185373)
 /gene="crcB"
 /locus_tag="DMACINML_00180"

CDS complement(185005..185373)
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 /inference="ab initio prediction:Prodigal:2.6"

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          /locus_tag="DMACINML_00181"
CDS      complement(185367..186068)
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acyltransferase"
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gene      complement(186040..187239)
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SASISIGAIQFENTPNNKNFVSHLVASSLEVKKIKTSYFDDSNIIITMIELSATNTNLKS
FFVNGVEKQGIENLKGDFNSSNAFYAIFPSTKTDFFSYFNKDKKMEMNSFKLKIS
DDEVSTQSDLNPTNRDFNIYKQYALWALTILALWFVWKKNYFILAGALLCFILGFLV
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SSDLQKN"
sig_peptide complement(187189..187239)
          /locus_tag="DMACINML_00182"
          /inference="ab initio prediction:SignalP:4.1"
          /note="predicted cleavage at residue 17"
gene      complement(187236..187880)
          /gene="purQ"
          /locus_tag="DMACINML_00183"
CDS      complement(187236..187880)
          /gene="purQ"

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/locus_tag="DMACINML_00183"
/EC_number="6.3.5.3"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34661.1"
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/transl_table=11
/product="phosphoribosylformylglycinamide synthase I"
/protein_id="Prokka:DMACINML_00183"
/translation="MKVAIIRFPGTNCFDFTQYAFEKIGVKAQVWHEEKEINADLVV
LPGGFSYGDYLRCAAIKIPAMQGVIAHAKRGGYILGICNGFQILLESGLLEGAMKH
NNLSFISKQNLRVVSNVFLKNFKKDEIINLPIAHGEGNYADEATLKKMQDKDL
ILLKYEPNPNQSVLDIAGICDENKKIFGLMPHPERACDKILGNDIGLRMLEGFM"
gene complement(187880..188125)
/locus_tag="DMACINML_00184"
CDS complement(187880..188125)
/locus_tag="DMACINML_00184"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34660.1"
/codon_start=1
/transl_table=11
/product="phosphoribosylformylglycinamide (FGAM)
synthase"
/protein_id="Prokka:DMACINML_00184"
/translation="MKIVVNVFLKNGVLDPPQGAIEKALHSLNFNEVKEARVAKQIIL
DLDESNEQKAKERVKSMCEELLVNSVIEDYELIVSEK"
gene complement(188134..188844)
/locus_tag="DMACINML_00185"
CDS complement(188134..188844)
/locus_tag="DMACINML_00185"
/EC_number="6.3.2.6"
/inference="ab initio prediction:Prodigal:2.6"
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/codon_start=1
/transl_table=11
/product="phosphoribosylaminoimidazole-succinocarboxamide
synthase"
/protein_id="Prokka:DMACINML_00185"
/translation="MKKELLYEGKGKLYATEDENFLISEFKDDLAFNAEKRGSSES
GKGALNCKISTELFHLLEKNGIKTHLVETINDNEQVIKCKIPIEVIVRVNATGSLT
KRLGIKDGTVLPLVFLVEFCLKNDELGDPFINDEHCLILNLVQNEAQIKEIKEMAKKIN
AILSPFFDAKNLRLIDFKIELGLTKDNELVLADEISPDSCRFDKFSNEKLDKDRFRQ
DLGNVKMAYEEVLKRILN"
gene complement(188847..190169)
/locus_tag="DMACINML_00186"
CDS complement(188847..190169)
/locus_tag="DMACINML_00186"
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/inference="similar to AA sequence:RefSeq:CAL34658.1"
/codon_start=1
/transl_table=11

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MTSKELKKHPDVKGVILDLRNNPGLLNQATGLVNLFVDKGVIVSQKGRVTSENQEYK
ANPKNKISDSSLVVLVNGGSASASEIVSGALQDLKRAIIVGENTFGKGSVQIIPINE
TEALRLTIARYLPSGRTIQAVGVKPDIEVFPGKVNTQEDSFNIKESDLKQHLESELE
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sig_peptide complement(190080..190169)
/locus_tag="DMACINML_00186"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 30"
gene 190328..190609
/locus_tag="DMACINML_00187"
CDS 190328..190609
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34657.1"
/note="conserved hypothetical protein Cj0510c"
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QLAAVKA AVNNTAKAILKEHLAHC MYHAVMEKDTQSIEDLNKAIDMFVK"
gene 190746..193319
/gene="clpB"
/locus_tag="DMACINML_00188"
CDS 190746..193319
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SLNKFGIDL TAKASEGKLDPVIGREEEIERLMQILIRKTKNNPILLGEPGVGKTAIVE
ALAQR I IKKDVPSLQNKKVIALDMSALIAGAKYRGEFEDRLKAVVNEVIKSENIIIF
IDEIHTIVGAGASEGSM DAANILKPALARGELHTIGATTLKEYRKYFEKDAALQRRFQ
PVNVGEPVNEALAML RGIKEKLEIHHNVTINDSALVAAAKLSKRYIADRF LPDKAID
LIDEAAAELKMQIESEPSSLRKVRKD IETLEVENEALKMENDEKNQKRLDEISKELAN
LKEKQSALNSQFENEKAVFDSISAKKKEIDSLKNEAVFAKNKGEFQKAAELEYGK IPE
CEKEVANLEEKWKMS ENGVLLKNQVDEDLVAGILSKWTGIVSVQKMLTSEKQKFLVE
KHLKESVIGQDKALSALARA I KRNKAGLNADNKP IGSFLFLGPTGVGKTQSAKALAKF
LFDDEKAMIRFDMSEFM EKHSVSRL LGAPPGYIGHEEGGELTEAVRRKPYSVLLFDE V
EKAHKDVFVNL LGILDDGRATDSKGVTVDFKNTIIILTSNIASSAIMNLSGKEQEDAV
KNELKNFFKPEFLNRLDDIITFNPLGKDEAYEIVKLLFKDLQKSL ENKG I KASLENA
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V"

gene complement(193364..195295)
/gene="pbpA_1"
/locus_tag="DMACINML_00189"

CDS complement(193364..195295)
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/locus_tag="DMACINML_00189"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34655.1"
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VKIIKSGGKTMEGASTLTQQFIKNTLTPERTITRKIREALLAYKMETILSKEQILER
YLN YIFFGHGYGVKTA AQGYFHKNLNELSLKEIAMLVGMKPAPSSYDPTKHLDL SIA
RANNVARMYTLGWISKA EYDEAMKEIPQIYDDTLTQNAAPYVVDEVIKQLSPSIKDL
KTGGYKITLNIDL DVQEMAQNALKFGYDEIVKRDKDANLSTLNGAMVVVNHQSGD VLA
LVGGVDYEKSNYNRATQSTRQPGSSF KPFVYQA AINLGYSPVSEIADISRIFEGGAGD
NKDWKPKNDGGKFLGLITLKEALTRSRNLATINLALNMGLDVLHSKLVEFGFRDIPAN
LSIVLGSFGISPLEYSKFYTMFGNYGVIKEPQIIRQVQDRNDQIIMEFNSNEYRV SDE
AQSF LVLDMMRNVVEHGTGRNARVEGIEIAGKTGTTNKNIDAWFCGLTPEIEALI WYG
NDNNKPMRYTEGGARTSAPVREFLNKYLDKFPDTRKFSIPNGVYRGSYKGNAYYT
IKSPLPRANMKFNESEILF"

gene complement(195292..195843)
/gene="maf"
/locus_tag="DMACINML_00190"

CDS complement(195292..195843)
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/locus_tag="DMACINML_00190"
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SILSAFLLKNSKRVFSLSKTTL YFSKFDPHDLKDYVENGLYK GKAGAIMCEGFHKNY
IIKQEGNLNTALGLDTQNLKAYL"

gene complement(195847..198375)
/gene="alaS"
/locus_tag="DMACINML_00191"

CDS complement(195847..198375)
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/locus_tag="DMACINML_00191"
/EC_number="6.1.1.7"
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/transl_table=11
/product="alanyl-tRNA synthetase"
/protein_id="Prokka:DMACINML_00191"


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GPCGPCSEIFYDQGEYFNGEEDYMGDDGDRFLEIWNLVFMQYERSADGKLTPLPKPS
IDTGMGLERVTAIKEGKFSNFDSSLFMPPIINEIAKLCGKTYVYESGASFRVIADHIRS
SVFLLAQGTSFDKEGRGYLRRILRRALRHGYLLGLKKPFMYNLVDVCKLMGDHYTY
LNEKKDFIKEQIRLEERFLSTIENGIEIFNEELKNTKEVFSGEVAFKLYDITYGFPLD
LTQDMLREKNLVDEAKFEELMNEQKNRAKASWKGSGDKVASGDFKNLLEKFGENCFV
GYEKTECQATVLALLDEDFKEVSSLKGLGWMLDNTPFYATSGGQIADTGYIGTSEVL
DTQKFFNLNLSLVKANEEIKLNDKIIAKIDTDKREQTARHHSATHLLHHALREILGSH
ISQAGSLVESNKLRFDFTHKALSKEELESIEKRVNEMIISSSEAILENMPLEDAKKS
GAIALFNEKYQGNVRVLTLGESKELCGGTHVKNTAQIGSFYIVKESGVSAGVRRIEAV
VSRAALEFCKTFMNENLNLKEELKSNDSLGLVKKLKNEILKLNELKNSNKSQLNSSN
INGVQICVECVESGDIKTMIDEFKKNFEKAAILLIQAKDDKITLAAGVKNCPLKAGNL
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gene 198492..199571
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CDS 198492..199571
/locus_tag="DMACINML_00192"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34652.1"
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/product="putative aminotransferase (degT family).
Functional classification-Misc"
/protein_id="Prokka:DMACINML_00192"
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GASFKEKSCSIAKISCTSFPPSKPLGAYGDGGAIFCNDESIKLRILLNHGQTDTRY
KHEFIGINARLDTLQAAILNAKLKHLDEEINKRQEIAKFYENLNTNCQIPKIDENAI
AYAQYSVLVEDRARVIKAFKANIPYAIHYPTPLHKQPCFSEFSLKLEKSEFASEHI
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gene 199568..200680
/locus_tag="DMACINML_00193"
CDS 199568..200680
/locus_tag="DMACINML_00193"
/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
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/product="hypothetical protein"
/protein_id="Prokka:DMACINML_00193"
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IECNNHPFLKDFERLQIAKGLKIDTNRLLKLTIPSPSMLLYMLFIRGGKNTEFNYYGT
DFTKLNKNDILNAYENFYKEFAALGGVYLQLDDTSFGSLCDYEFALNEINADDICEEY
VDFLNESLKTMPKNIMSIAIHICRGNYSRYVASGGYMKVAKKLFELRVNKKFFLEFDD
ERAGDFEPLKYINDQIAVLGILTSKTNESPSVEELKARVKIAAQFLSPKQIEISTQCG
FSSTEEGNEIFTHSQWEKIKLLKQVLSELENEGFFS"
gene 200677..201531
/locus_tag="DMACINML_00194"
CDS 200677..201531
/locus_tag="DMACINML_00194"
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DHDVKVGVGFCERFNPAVLALKKELQNEEIIISINIQRSTYPQRISDVGILQDLAVHD
LDLLHFLSGEKIINANILKSFNKDKQREDESIIITCKLEKTIACVHQSWNSTQRLRKIT
LVSKNHFYEANLADFSLSKDGQSLELMTQTPLFGEHMALYDLFLNKENYLANIQNAYA
VQEILEEF"
gene      201661..202572
          /gene="hemH"
          /locus_tag="DMACINML_00195"
CDS      201661..202572
          /gene="hemH"
          /locus_tag="DMACINML_00195"
          /EC_number="4.99.1.1"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:EAQ73002.1"
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          /product="ferrochelatase"
          /protein_id="Prokka:DMACINML_00195"
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NEMIISHILAKKSEFDAKTLIFSAHSLPQSIIDKGDLYEKHVNHHVELLKERLKDHF
EIIAYQSKLGPVKWLEPNTSDILANLDNKALIYPISFCIDCSETIFELGIEYKHLAK
CDYDLITCPNDSDEFAQFVLKYLSDFN"
gene      complement(202645..203880)
          /locus_tag="DMACINML_00196"
CDS      complement(202645..203880)
          /locus_tag="DMACINML_00196"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:ADT65846.1"
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          /transl_table=11
          /product="ammonium transporter, degenerate"
          /protein_id="Prokka:DMACINML_00196"
          /translation="MNAINSSFIVLCTLLVLLMTPALAMFYSGMVRSKNTLNTIMNCF
IVFGVITLQWVVLGFSLSFGKDEGLGLVGNFENFLLEGISGYNASGVPNIFVIFQMM
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GGVVHISSGVAGLVGALMVGARKSDDKNAHSIPYAFLLGAILLFIGWLGFNAGSAGE
MNDIAINAFIVSIIISAACGFLSWVLEWL IHHKPTILGGLSGLVAGLVGITPACGYVD
IYASLVIGALSSVFCYFGLSFIKYKWKDDSLDAFSLHGIGGIWGGIATGLFASAKVN
PNVIAQNALGEGFFISGSLELLKEQIFAIVICVVL SALISFIIFKIISCFTDLRVKEE
VEQKGLDVSLHGEKAYTLA"
gene      complement(204195..205193)
          /locus_tag="DMACINML_00197"
CDS      complement(204195..205193)
          /locus_tag="DMACINML_00197"
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IAVILSELGYRVVRLKGGFKAYRSFLAHYFDNEINLDFALCGNTGCGKTELLELLPH
HLNLEKMANHLGSSFGDILGAQPTQKAFEASLFHVLNSLKDFIFIESES RKIGEIVLP
LKLYEKMQKAFKIHCFCSLEKRIDRIQKIYQEKMTPLKFKECLAKISPYISVNFQRDL
LKSIEQREWQRLIALLLAYYDKSYKKPKQIDFELNTDDIFKAKEELLGYFKTQLLF"
gene complement(205183..205668)
/locus_tag="DMACINML_00198"
CDS complement(205183..205668)
/locus_tag="DMACINML_00198"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AJK70652.1"
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/protein_id="Prokka:DMACINML_00198"
/translation="MQYLYAPWRSEYFEKEKSECPFCDCANKIKSDEELGVIFRAKHC
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K"
gene complement(205679..206455)
/locus_tag="DMACINML_00199"
/EC_number="4.1.1.48"
CDS complement(205679..206455)
/locus_tag="DMACINML_00199"
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/protein_id="Prokka:DMACINML_00199"
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KRVENEVRIIAEVKKASPSKGVIRENFDPLDIALKYEKNGAAAI SVL TEPHFFQGSLE
YLSMIRRYTRAPLLRKDFIFDEYQILEALVYGAD FVLLIARMLSMKELKRLLEFTRHL
GLEALVEIHDKEDLSKAIFSGADIIGINHRNLDDFSMDMNLCEKLIPQIPNSKIIIAE
SGLNKDFLRHLQNLGVDAFLIGEYFMRQNDEGEALKALL"
gene complement(206452..207729)
/locus_tag="DMACINML_00200"
CDS complement(206452..207729)
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/product="ATP-dependent nuclease subunit B"
/protein_id="Prokka:DMACINML_00200"
/translation="MYRNLLFVLIGFFLTACGASKTVIAYPNYEQQSNEFDLRIMKA
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DNLKRLSALYALNSYNLNEAQKLIIEELLKKKSDDPNLELYGDVLMRQNNLKDAIKYY
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 LKLYGKAKDLSMQIYKHTQEKEYLLRAAIFEFEEANLEKKITPQVITLVSEKFSDAID
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gene complement(207702..208076)
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CDS complement(207702..208076)
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 /inference="similar to AA sequence:RefSeq:CAL34644.1"
 /note="conserved hypothetical protein Cj0496"
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 /transl_table=11
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 /protein_id="Prokka:DMACINML_00201"
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gene complement(208066..208767)
 /locus_tag="DMACINML_00202"

CDS complement(208066..208767)
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 /inference="similar to AA sequence:RefSeq:CAL34643.1"
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 ICLALESKLLKLTIRFVHHTQNTQARLVLVQARKSVKSPCEILPPFFVYKNENLSEQ
 MQEIHSRFRLESYDI"

gene complement(208770..208925)
 /locus_tag="DMACINML_00203"

CDS complement(208770..208925)
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 /inference="similar to AA sequence:RefSeq:CAL34642.1"
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 /transl_table=11
 /product="putative exporting protein"
 /protein_id="Prokka:DMACINML_00203"
 /translation="MLKFFVISLLSSLLFAQNFIDFASQNNVLKQEQNTSKENAPLK
 RVKIPTH"

sig_peptide complement(208872..208925)
 /locus_tag="DMACINML_00203"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 18"

gene complement(209003..209079)
 /locus_tag="DMACINML_00204"

tRNA complement(209003..209079)

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/product="tRNA-Arg"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Arg(cct)"
gene complement(209107..211182)
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CDS complement(209107..211182)
/locus_tag="DMACINML_00205"
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CDS complement(211195..211665)
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gene complement(212418..216968)
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/locus_tag="DMACINML_00208"
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gene complement(221601..222080)
/gene="rplJ"
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/gene="rplJ"
/locus_tag="DMACINML_00211"
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CDS complement(222230..222931)
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gene complement(222987..223412)
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CDS complement(222987..223412)
/locus_tag="DMACINML_00213"
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gene complement(223439..223972)
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CDS complement(223439..223972)
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/protein_id="Prokka:DMACINML_00214"
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gene complement(223985..224164)
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gene complement(224183..224258)
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tRNA complement(224183..224258)
 /locus_tag="DMACINML_00216"
 /product="tRNA-Trp"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Trp(cca)"

gene complement(224270..224428)
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 /locus_tag="DMACINML_00217"

CDS complement(224270..224428)
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 /locus_tag="DMACINML_00217"
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 HKEVKLKS"

gene complement(224481..225680)
 /gene="tuf"
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CDS complement(224481..225680)
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 /locus_tag="DMACINML_00218"
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 PIEDVFSISGRGTVVTGRIEKGIVKVGDTIEIVGIKDTQTTTGTGVMFRKEMDQGEA
 GDNVGVLLRGTKKEEVIRGMVLAKPKSITPHTDFEAEVYILNKDEGGRHTPPFNNYRP
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 VSKIIK"

gene complement(225741..225815)

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 /product="tRNA-Thr"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Thr(ggt)"

gene complement(225910..225986)
 /locus_tag="DMACINML_00220"

tRNA complement(225910..225986)
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 /product="tRNA-Gly"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Gly(tcc)"

gene complement(225993..226078)
 /locus_tag="DMACINML_00221"

tRNA complement(225993..226078)
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 /product="tRNA-Tyr"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Tyr(gta)"

gene complement(226140..226215)
 /locus_tag="DMACINML_00222"

tRNA complement(226140..226215)
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 /product="tRNA-Thr"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Thr(tgt)"

gene complement(226349..227086)
 /locus_tag="DMACINML_00223"

CDS complement(226349..227086)
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GPLKVQKRAKEEVLQEAKIWLEKVGLAHKIDAYPRELSSGGQKQRIAIVRSLCMNPELM
LFDEVTAALDPEIVREVLEVILNLAKDGMTMLIVTHEMGFARAVADRIIFMDNGEIII
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gene complement(227088..227744)
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protein"
 /protein_id="Prokka:DMACINML_00224"
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CDS       complement(227737..228438)
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CDS       complement(228449..229045)
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gene      complement(229513..231327)
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CDS complement(231317..232537)
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ISLSDLESFYKKNINLSNLVVILGGNLAQEKAKGLLDKLLAKLQKGSQNSQKTYEINS
KNKDIIQIRKESEQAYIYFAAPFFTKFNDKDFYLAKIALFILGQGGFGSRIMEEIRVK
RGLAYSAYAMLDMNASFTRVFGYLQTKNESAKEAKKIVKEVFKDFVKEGVSQNELVQA
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gene complement(232537..233583)
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CDS complement(232537..233583)
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/inference="similar to AA sequence:RefSeq:CAL34610.1"
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/protein_id="Prokka:DMACINML_00230"
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NINYTNVCCIDCSFCAYRHHKEDDAYILSFEEIGKKIEELEAIGGTQILFQGGVHPK
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AGAENVLSDRVRDIIAPNKCDTATWLEVHRRRAHEIGMKSTATMMFGTVESDEEIVDHF
HLRKLQDETGGFRAFILWSFQSENTALIQKHPEIMKQSSNKYLRLALARLYLDNFKN
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gene 233656..234843
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CDS 233656..234843
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 /protein_id="Prokka:DMACINML_00231"
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 TWATATSAMLAFLPGVLLAPINGVIVEKKNPKKLLLSMISIELVSIFCLIFVTSLSML
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 FINFFGIKAAFLFDCCLIIIGILLTRLHIPHFQKIQNKFFTLIKEGFLYVLQNKII
 LHLIILHAFIGFTAYETLVTLAQHEYKEVLSAALVIGFLNAIRALALAFGPLFLSRI
 TNNKNIFFLYLQGLGIILWALTQFNFYISFIGLIAAGFCTSSLWAYTYTMIQKNC DK
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gene complement(234870..235958)
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 FLPRKNRIKGEKFKVGDVVKAVIRRVYTDKGIKME LSRTSPKFLECLLEAEVPEIKDG
 YVSVVKCARIPGERAKIILQANGANIDPVGATVGKGV RINAVSKELHNENIDCIEFS
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CDS 236084..236326
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gene 236323..237624
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ILINTCSVREKPVHKLFEVGGFEKVKKSGAKIGVCGCTASHLGSEIFRRAPYVDFVL
GARNISKITEAVNTPKFMSVDIDYDESEFAFGDFRNSIYKSYINISIGCDKHCTYCI
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ELSTIEGLERIRFTSPHPLHMDDKFLEVFAPKPKVCKSMHMPQLQSGSSQILKSMKRGY
TKEWYLDRAKLRCLPNSVISTDIIIVAFPGESDKDFEETMEVLEKVRFEQMFSEFKYS
KRPLTKAATMPNQIDEAIASSRLSTLQARHNEILDDIVKKQENKTFKVLFEELRAGNA
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gene 237587..238231
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CDS 237587..238231
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YEARN FWEFKSWDKMILPKPFTHLVYRLSEPLDISSLDKQAKFFLLEHFKNIEQMDKF"

gene 238240..239229
/locus_tag="DMACINML_00236"

CDS 238240..239229
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YIIL TLIICRGVEILYGDIIFFEEELGLEIENQEENLDSLKGDILSDTEVTL
DNFNETLEDK LNALDQFGDNDLEHNEDDSEFLDGKDKLDLEEMNQFGNDMELCRHIVMSIEK
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gene 239226..239750
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CDS 239226..239750
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gene 239747..240265
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CDS 239747..240265
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/translation="MKDKSLEELNLIKIIYVLSFITVCTALILFLLLPVLKDYKQTH
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gene complement(240257..241549)
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CDS complement(240257..241549)
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TSLG DALRPGSTHDASDAAQISELIELSLLTQRAW EAGVQVMIEGPGHMAINEIEAN
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PNLNDVRDGIVATKIAAHAGDLAKLPKERKRDEMSKARQDIDWEKMFKLAIDG EKAK
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gene 243264..243458
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/locus_tag="DMACINML_00242"
CDS 243264..243458
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CDS 243657..243872
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gene 243882..244976
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CDS 243882..244976

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LLYHKELKSFIFVRQFRIPLWYHQKQDKNYQKDNMGYTIELCSGLVDKDLPLEQIAK
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complement(245663..247729)
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DIDCTNGVTCERSINLGKTQTKGVEFAFNTPYNGFSVNSSYTFMDNRYKDGQTNWFG
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SYKYDF"
gene complement(247975..248808)
/gene="citE"
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CDS complement(247975..248808)
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gene complement(248819..249991)
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 RGYDKRVDGIASHFVWVNRSKESLAIDLKDPDALEFIKTILPKVDIFVQNLAFGASKR
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 PISIADISAGMYAYSGILQALLYLEKTGKGSRVEISMLECM AEWNNYPLYTYKNATP
 PERKGAFHASITPYGPYKAKDGVVMFGLQNPREWESFCKIVLQDES LIDHEDFKNNTL
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gene complement(250004..250834)
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gene      complement(252602..253540)
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transferase subunit alpha"
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gene      complement(253542..254756)
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LOCUS DMACINML_2 253157 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source

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CDS

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/note="conserved hypothetical protein Cj1217c"
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gene complement(15197..15808)
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/EC_number="2.5.1.9"
CDS complement(15197..15808)
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/protein_id="Prokka:DMACINML_00276"
/translation="MFNGLIREIAKVKSQNNVNLKANYRPNLGDSVAVNGACLSVT
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gene      18804..20441
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CDS       18804..20441
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          /locus_tag="DMACINML_00279"
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ILLFDKIANLKDLLPVLEQIQKTGKPLLIIAEDIEGEALATLVVNLKRGVNLISAVK
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gene      complement(20946..22151)
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CDS       complement(20946..22151)
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gene complement(22144..22809)
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CDS complement(22144..22809)
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/inference="similar to AA sequence:RefSeq:CAL35338.1"
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gene 22944..23543
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CDS 22944..23543
/locus_tag="DMACINML_00282"
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/inference="similar to AA sequence:RefSeq:CAL35339.1"
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/translation="MLPKWDSSFSVHNAKIDDQHKKLFELAAKVEIVSDRSVSKNEVK
ELLAEFFNYMKDHFNDEEKYMLIAYPAFEEHKKIHKEIIQTMINLIKDIKSTNDLKE
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gene 23557..23922
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CDS 23557..23922
/locus_tag="DMACINML_00283"
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/product="Ribbon-helix-helix protein, copG family"
/protein_id="Prokka:DMACINML_00283"
/translation="MKQETRNYSLRMPLELKERLDNLSKNLSKPKSSIVREALEAYLN

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tRNA complement(24006..24080)
/locus_tag="DMACINML_00284"
/product="tRNA-Asn"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Asn(gtt)"

gene complement(24160..25410)
/locus_tag="DMACINML_00285"

CDS complement(24160..25410)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35341.1"
/codon_start=1
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/product="putative two-component sensor (histidine
kinase)"
/protein_id="Prokka:DMACINML_00285"
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SLIANARLLNFAGIISEKEFEEQTKNYNKMESVVEVRQIRIRILFGGEVLARVEVNGL
IEIISYDRQVYLNIIIFDGKVNLYKDQDYQTYRYFIIKAIAVAVICILVLLYIYIFKKL
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KYNILDVLDEAKEIAMRDDNNIRIFMDESFFVNVDFKLFITAIKNMIDNGIKHSENGF
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gene complement(25407..26081)
/locus_tag="DMACINML_00286"

CDS complement(25407..26081)
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/inference="similar to AA sequence:RefSeq:CAL35342.1"
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/translation="MTNILMIEDDLELAEITAELYEKFDMKVDIAHEPYIGLSKLALK
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GYKLTQ"

gene complement(26164..27582)
/gene="htrA"

CDS complement(26164..27582)
/gene="htrA"
/locus_tag="DMACINML_00287"
/EC_number="3.4.21.-"
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/codon_start=1
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SINPGNSGGALVDSRGLVGINSAILSRGGGNGIGFAIPSNMVKDIKAKLIEKGRID
RGFLGVTISALQGDTKKAYKNQDGLITDVQKGSSEAGLKRGLVTKVNDKVIKSP
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sig_peptide complement(27532..27582)
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/note="predicted cleavage at residue 17"
gene 27791..28690
/gene="cbpA"
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CDS 27791..28690
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IKFKIPHGIKQGEKLIRNKGKKGRNGTRGDLIVVVKLGESEIYQREDDDLQKVDIS
LKTALFGGKVTVNTLKEKKEATITIPANSKNGQKIRLKGYGQNRKSDIYGDMYLVL
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gene 28706..29080
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/locus_tag="DMACINML_00289"
CDS 28706..29080
/gene="hspR"
/locus_tag="DMACINML_00289"
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/product="heat shock transcriptional regulator"
/protein_id="Prokka:DMACINML_00289"
/translation="MEHHYDEPVYLISVAKVLSIHPQTLRQYEREGLIEPSRTDGKI
RLYSQRDIDRIKLILRLTRDMGVNLAGVDVILKLNQLHEFENLIDELRLELSKQNP
NASSKAVVKHKNSFDLIFYEKK"
gene 29081..30703
/gene="kefB"
/locus_tag="DMACINML_00290"
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system protein"
/protein_id="Prokka:DMACINML_00290"
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TILFMVIGASFLAHYFGFSYSLGAFIAGALIAETKYKHKIEADLIPFRDLLGLFFIT
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gene 30713..31045
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CDS 30713..31045
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gene 31038..31658
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CDS 31038..31658
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/product="putative HAD-superfamily hydrolase"
/protein_id="Prokka:DMACINML_00292"
/translation="MINVFFDMDGTLIDSANAISCAVNEIRNELNLSPLSREKIMQTI
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gene 33703..34524
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CDS 33703..34524
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gene 34521..35471
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PMKAKLKEKCEILNLKKGELSLELEEFFKDLKASKKFIASFVDYGVFNPEQFSIRIY
QKHEVFNPFITLKDFFGKSDLTYNVNFTQIQQLIKEHDFKLLALKKQNALIDFGFE
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gene complement(35543..36508)
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CDS complement(35543..36508)
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SVNSFSFKKILQKYPDFPYKFKDKKLIHFLIHDNFKTMAFEAFKQSNELKKMLKQS
KMKNIVLNSGVPTALAALKKGLNYEKYNAKKINGSRLNVNDFLNFQRLWHMDEKRAS
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gene 36564..37337
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CDS   36564..37337
      /gene="pdxJ"
      /locus_tag="DMACINML_00297"
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      /transl_table=11
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      /protein_id="Prokka:DMACINML_00297"
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DRRHAQDFDLENIIRFCKSPINLECALNDEILNLALKLKPHRITLVPEKREELTTEGG
LNLNHDKIKESIEKLQNAEIEVSLFINPSLEDIQKSYELKADFIELHTGHYANLHNAL
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IMMLGCKELFVGLFSEHIPLAKVSKKITFQNLISIFLKDFYQETRFKKIGLLGFNPHAG
DYGVIIGGKEEELMQKAIAFVNAFLNSKKDEKFFKKALKDENLQKELLLNFNTKGVYLP
YPLVADTAFTKANLKACNRLIAMYHDLGLAPLKALYFEKSINVSLNLPPIIRVSVDHGT
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gene complement(38418..39023)
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CDS   complement(38418..39023)
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gene 39271..39582
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CDS 39271..39582
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gene 39736..40758
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CKKMLYQNPPELLHEILNKL TQVLKSYLEEQIKAGANAVQIFDSWASALECDKFFDFSF
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gene 40755..41657
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CDS 40755..41657
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CDS       complement(41654..42847)
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gene      complement(42849..44663)
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CDS       complement(42849..44663)
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          /inference="similar to AA sequence:RefSeq:CAL35361.1"
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          /protein_id="Prokka:DMACINML_00304"
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gene      complement(44656..45132)
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CDS       complement(44656..45132)
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gene 45269..46804
/gene="guaA"
CDS /locus_tag="DMACINML_00306"
45269..46804
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/locus_tag="DMACINML_00306"
/EC_number="6.3.5.2"
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/inference="similar to AA sequence:RefSeq:CAL35363.1"
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/transl_table=11
/product="GMP synthase (glutamine-hydrolyzing)"
/protein_id="Prokka:DMACINML_00306"
/translation="MKKADILVLDFGSQYTLIARRLREQGVYAEILPFNVSLADIKA
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KKFFALQFHPEVQHSEFGKSILKNFAKYACNCESIWNMGSAKTQAEKIREEVGNDKV
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DASKIFLDRLAGVTDPEQKRKIIGNTFIEVFEEEAKKHKDVKFLAQGTLYTDIIESSV
IGASKTIKSHHNVGGLPEKMNLKLVPLKEIFKDEVRALGIELGLSKEIVYRHPFPGP
GLAIRIMGEVNRPSLELLRKADVILLEELRSTGWYDKTWQAFVLLNVKSVGVMGDNR
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gene 46986..47594
/gene="cfa_1"
CDS /locus_tag="DMACINML_00307"
46986..47594
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/inference="similar to AA sequence:RefSeq:CAL35298.1"
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/protein_id="Prokka:DMACINML_00307"
/translation="MENSIKDSYNKICKKWSDFRKSTSTNKCIIDFANDLKSNSRVLD
IGCGTGYPIASYLSKQGFQVTGIDISEMIKQAQKLNHLNATFLVENILNFKTDKKYD
AIIAFDSIWHISHDKQECIYQIISLLTPGGLFLFTHGKNDGEIISTMWGESFYHSAL
DLEKVHLLKQNGFDILSSIYIEETTGDRELLIIAKKEL"
gene complement(47740..48297)
/gene="rsmA"
CDS /locus_tag="DMACINML_00308"
complement(47740..48297)
/gene="rsmA"
/locus_tag="DMACINML_00308"
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/inference="ab initio prediction:Prodigal:2.6"
/inference="protein motif:HAMAP:MF_00607"

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FFSEVRISRVVWQNFPPAVVYCKK"
gene 48431..49891
/locus_tag="DMACINML_00309"
CDS 48431..49891
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RQEKLAKLQKEAEYRRTLKRLGAIQEDFYKKNYNIFENAFKLSREKLFKKIITGLNL
CATIMDVKIWHLSLKSSGVKNSYFTMSNIENSFCSLSFAEHYLSRLNKAALNPFQKLL
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gene 50132..51382
/locus_tag="DMACINML_00310"
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/EC_number="6.3.4.13"
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/inference="similar to AA sequence:RefSeq:CAL35365.1"
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/protein_id="Prokka:DMACINML_00310"
/translation="MKIMILGSGAREYSIALALKRVDENLEFYFAPNGGATESLGTNL
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FMKSFLKKYRIKTAKFLNTNDIEKAKNFILSLTPPIVVKADGLCAGKGVIIAKTHEEA
IEEASKMLSGESFGEAGKLIVIEEFLDGFELSIFAVCDGNDVLLPAAQDHKKLLDGD
EGPNTGGMGAYAPSSLANESLLRKIQKDIIIPTLAGMKKEDSEFCGVLFIGIMVVGNK
PYVLEFNVRFGDPECEVLMPLIENPLELILATTQKRLRHTKIKIKKDYAVGVVCASEN
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gene 51379..51831
/locus_tag="DMACINML_00311"
CDS 51379..51831
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LLNAKDLFDTAQILGDFYLGFLLLHITYQTIFTYLYGASLGKMVCKIIILDEDLLDKP
NLNQSCIRSIVRQISDMAFMLGFAWALSNDLRKRWEDYLARTIVVNA"
gene 51821..53869
/locus_tag="DMACINML_00312"
CDS 51821..53869
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NQLNLPISYHNAFFDDFLHFTFTERFYASFLNYSHYPEKEHEHYFRNTHDFNLTYD
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gene 53886..56102
/locus_tag="DMACINML_00313"
CDS 53886..56102
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/inference="ab initio prediction:Prodigal:2.6"
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TLTARIIDRSLRPLFPKGYAYPTQIVVMVLSADPQVDLQVMSLNAASVALYLSDIPMK
APVCGVRIGRIEEKFVLNPNNEELKNSTLDLYVAGVKDELLMIEMRALPNQKEDEIFI
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RALYPSIDENYPYVIRLVSEILENSGSSMATVCGGSLALRAAGVPSLKL VAGVAMGL
IFEGDQYAILTDIMGLEDHGDMDFKVAGSKDGITALQMDIKLGGIDQKILKEALYQA
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gene KVKKITNFGAFIELKNGIDGLLHNSKSKNLNLSNQILKVKVSEIKNGKISVDLCE"
 56099..56581
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gene complement(56519..56788)
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gene 57179..57388
 /locus_tag="DMACINML_00316"
 CDS 57179..57388
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 /inference="ab initio prediction:Prodigal:2.6"
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 /protein_id="Prokka:DMACINML_00316"
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 IIDEIDTDNYGLGGKSITQVRKEKS"

gene complement(57385..58041)
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 CDS complement(57385..58041)
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 IVLDNDHYKIIMPECKYKHSIIDMKFYDEKNAKFLPFLLPDSINSTGLSFSSENDKNK
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gene complement(58059..59243)
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CDS complement(58059..59243)
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FSISAVFDLVAFLLACSFVTIFL FIRERKIQKEAKKNTQEFKENKKLIVIIIFITTFII
QFGTFGVMPILSLYVEQIYQGGNLALWAGVVVAASGISNLFAPKLGKIADKIGPSKI
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gene 59297..59752
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CDS 59297..59752
/locus_tag="DMACINML_00319"
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/protein_id="Prokka:DMACINML_00319"
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EHDGENMHYGTQNKLSLDIKYQNFTSKKL TQVLCDESDFLITMDNSNFKNVQKNYKN
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gene complement(59754..60623)
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CDS complement(59754..60623)
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FLPSGTGTSAAFLAKNSKFKVFTCACVGDEYYLKTQILNLKKNYDFSLEILKSDKKY
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gene complement(60633..61583)
/locus_tag="DMACINML_00321"

CDS complement(60633..61583)
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/inference="ab initio prediction:Prodigal:2.6"

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ILSNIEIIIEGHTSDSGSYIYNLDSLQKRAYEVMNFIYTFYKDTRLQKLLMASGRSF
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gene complement(61580..63034)
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TAALEQEIALLLSGVGTAFYVSIYGIFLALWMMFFEKFGKSKIERLLNRQKNSTSGFF
WTKEELDQRYLSESLQHFEEKIGAIKQVSNQDFFAELDHTIDRKFGIFQDMLNVEEKA
IRLSGEHIKQTMGELSRAQRDQRDLGKMYGEMNLGIGMLNQLKEINMRMSEQYNRL
DISNEKIQHFDKTLAFDEKVDKDFGKNFELYEKAILESQEKVFEFGKTSLFEGMHKFK
EYEEEEKSIDAKIKMMDKLGKQEIKNLNEETNEVMAKIGKTPSLTQEEQDNIENEILSS
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gene complement(63133..64197)
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CDS complement(63133..64197)
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/inference="similar to AA sequence:RefSeq:APA79036.1"
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/product="Fructose-bisphosphate aldolase class II"
/protein_id="Prokka:DMACINML_00323"
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VLEAAKKNVSPVIIQFSNGGAKFYAGKNCPQGDVLGAIISGAKHVHLLAKAYGIPVILH
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SLGISLELELGCTGGEEGDVNTGIDNSKLYTQPEDVALAYERLGKISDKFSIAASFG
NVHGVYKPGNVS LQPEILKNSQK FVKEKFGLEADKPINFV FHGGSGSELKDIKDAVSY
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ESMIKRLELAFEDLNCIGRN"
gene complement(64197..65018)
/gene="peb4-cbf2"
/locus_tag="DMACINML_00324"
CDS complement(64197..65018)
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/locus_tag="DMACINML_00324"

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/protein_id="Prokka:DMACINML_00324"
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LRGEDFKSLPDHQKNALLQQYIMQDLILQDAKKQNLEKDPLYKKELEKAKDSILINVY
QEKILNSIKIDSSKVKAFYEQNKEKYIKPAAVQAKHILVSSEEEAKDIIKELKGLKGGK
ALDDKFSQLAKEKSIDPGSKNQGGELGWFDQSTMVKPFTDAAFALKNGTITTTVPKTN
FGYHVILKENSRAKEQIKFDDVKKGIENGLKFEFFKKVINQKGGQDLLNNAKVEYK"
sig_peptide complement(64953..65018)
/gene="peb4-cbf2"
/locus_tag="DMACINML_00324"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 22"
gene 65101..65727
/gene="nth"
/locus_tag="DMACINML_00325"
CDS 65101..65727
/gene="nth"
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/product="endonuclease III"
/protein_id="Prokka:DMACINML_00325"
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VNLITPELFKAYPDITSLANANLSSLKTYIQSCSFYNNKAQNLIKMAQSVCFENFNAQI
PLEEEKLKSLAGVGQKTAHVVLIEWCGANCMVDTHVFRVSHRGLSKAKTPEATEED
LTRIFKDNLNLYLHQAMVLFGRYVCKAKKPLCKECLNHLCKSKDKELE"
gene 65724..66374
/locus_tag="DMACINML_00326"
CDS 65724..66374
/locus_tag="DMACINML_00326"
/EC_number="3.1.30.-"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34740.1"
/codon_start=1
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/product="putative DNA/RNA non-specific endonuclease"
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INCYDYKLGTKAVAYKVEASNLKEKQIKKRARFEDDTNIPKKYRSTWSDYKNSGYTR
GHIASNASFRFSKAAQTSVFLMSNITPQNAQVNATVWNEIEQRERSLAFKFQSVEVLN
LILYGKNPKFIKNGIAIPSSYIKIIKTPRFKECYEVPNNDIQSEEINDYKISCNKF"
sig_peptide 65724..65774
/locus_tag="DMACINML_00326"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 17"
gene 66384..67016
/locus_tag="DMACINML_00327"

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CDS 66384..67016
 /locus_tag="DMACINML_00327"
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 /translation="MEISALTITILYIIGISAEGMTGALAAGRHKMDLFGVIFIALVT
 AIGGGSIRDVLLGHYPLTWVKHPEYIVLILCALVATKIPRIVSRLESFLTLDAIGL
 VVFSILGAQIAIEQNHGFIIAISA AVITGVFGGILRDILCMRIPLVFQKEIYAGIAII
 AGAIYYALMVYLQLHALICTLVTLFVGVTARLLAIKYQWSLPIFSYNEEK"

gene 67094..67312
 /locus_tag="DMACINML_00328"

CDS 67094..67312
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34737.1"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_00328"
 /translation="MNKAILLTLIGLFFACEQTKSVEYYKAHPPEAKKRSDECRLKS
 IISQDCVNAHSVAIPKEDWDEGHDTQTR"

gene complement(67316..68020)
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CDS complement(67316..68020)
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 /inference="similar to AA sequence:RefSeq:CAL34736.1"
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 /protein_id="Prokka:DMACINML_00329"
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 LIKLTKEGVKVC DLGCSSANFLIFLASLRKDLK LFGVDNAPSMLEIAKSKAQAYGLN
 IEFLEANL CDFVFFQSDV FVANYTLQFIRPPKRQELVNEIYKNLNKGGIFIMSEKILY
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 ESVFKWVNFETFIAFK"

gene complement(68024..68863)
 /gene="ribF"
 /locus_tag="DMACINML_00330"

CDS complement(68024..68863)
 /gene="ribF"
 /locus_tag="DMACINML_00330"
 /EC_number="2.7.1.26"
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 /inference="similar to AA sequence:RefSeq:CAL34735.1"
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 /product="putative riboflavin kinase/FMN
 adenylyltransferase"
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YAIKGLIKGQGLGSKELFATLNLECEEYFLPKNGVYASIVSFHDKRYKSVSVFVGRS
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CLG"
gene      complement(68829..69578)
          /gene="tlyA"
          /locus_tag="DMACINML_00331"
CDS      complement(68829..69578)
          /gene="tlyA"
          /locus_tag="DMACINML_00331"
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          /inference="similar to AA sequence:RefSeq:CAL34734.1"
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          /protein_id="Prokka:DMACINML_00331"
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FVQILLEHKALKVSALDVGDNQLHPSLRDDKRIEIIENTDLRTFKSEQKDFDITCDVS
FISLTHLLSYIDNLALKDIVLLFKPQFEVKGQAKRDKKGVLKDEKAVFKAMREFENAC
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gene      complement(69575..70579)
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CDS      complement(69575..70579)
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FYFLRLRNKNIKEATMIKNSLIYRVSAGDFYIYLSFFMALFALASLFLNLSFEKQD
GFFLFILLPLFLFFFKQKLQLQFLDNAYNDFRIIILSSLILALLYAIFNGVVNPIQSF
NLEDFNQSIHYKNSKFFVFDLISQILTILINALKEYFLYSLGLFWFRVLFNFIQDFINF
FIFCSFVAYLYNFAFKAKKTYVVFVFFVALASFFIVEDKNQNPKAYQKELVLMNNN
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gene      complement(70560..72503)
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CDS      complement(70560..72503)
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          /locus_tag="DMACINML_00333"
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FIEPKFDGASLNLLYDNGRLISGATRGDGEIGEDITLNVLEIDNIPKTINYKEKIEIR
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 RVDDLALCKELGHTVKFPKMAAFKPALEKTTRLIGVNLQVGRSGVITPVAVLEPVN
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 QFCPTCKSELLDEGTLIKCQNIDCEDRLVNSIIHFVSKKCLNIDGLGESIVELLFKEK
 KITTLESIFHLKFSDFEGLGFKKINNILNAIEQARDCELFRTALGIEHIGEVA
 AKKLALSFGKEWHKQSLEAYANLEGFGEQMALSLCEFSRVNSARIDEFYKLLNLKEQK
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gene complement(72504..73646)
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 /locus_tag="DMACINML_00334"

CDS complement(72504..73646)
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 NLARFLENDFSKPKQAEMLAVINVNEDSFNADSRVSYKDFEERLNEILALNPEYIDIG
 AVSSRPKSVYCGKEEEFRRLKNVLDLIYDKNYKKAIFSLDSFDEYCLEYALNKGKFF
 INDISSLRNLNLAKLASKYNAKYCLMHMQNDPLTMQDDPRYDDLLEDESSFFKEKLEI
 LDALGVKESILDVGIGFGKSAEHNMILIKHLEHFLQFKKPLLVGASRKSVINAYYESE
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gene complement(73643..74254)
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CDS complement(73643..74254)
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 KAVEKESYIAETSEKIIIVLMANSFRIEAQNFLLKLLLEPPKNIKFLIVVPSKNLLLPT
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gene complement(74254..74787)
 /locus_tag="DMACINML_00336"

CDS complement(74254..74787)
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 /note="hypothetical protein Cj0583"
 /codon_start=1
 /transl_table=11

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SFPNGFIYFYIGSASDKKSLIAKSRDSSLWLFDEQLQDSFYLSKDKDLVDKDLITLY
KLFDTSLDAILFSKVSL"
gene complement(74788..75990)
/locus_tag="DMACINML_00337"
CDS complement(74788..75990)
/locus_tag="DMACINML_00337"
/EC_number="2.7.2.4"
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/inference="similar to AA sequence:RefSeq:CAL34728.1"
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/protein_id="Prokka:DMACINML_00337"
/translation="MLIVQKYGGTSVGTLERIDAVAERVIKSAKEGHQLVVVVSAMSG
VTNTLIEQAEYFSKNPNGKMDMLLSSGERVTSALLSIALNERGYPSLAFSGRKAGIV
TDSVSTKARISYIDTQEITKALNEGKIVVAGFQGV DKEGDVTTLGRGGSDL SAVAVA
GALKADLCEIYTDVDGVYTTDPRIEPKAKKLDKISYEEMLELASLGAKVLQNRVELA
KKLNVKLVTRSSFNDNEGTMITKEDGMEQALVSGIALDKNQARVTLRNIEDKPGIAAE
IFSVLADENINVDMIQNVGVDGATNLGFTVPQNELDLAKNAMQKILGSKTTIESDSA
VVKVSI VGVGMKSHSGVASKAFKALADEGINIGMISTSEIKISMIVHEKYGELAVRAL
HECYGLDK"
gene complement(75990..76460)
/locus_tag="DMACINML_00338"
CDS complement(75990..76460)
/locus_tag="DMACINML_00338"
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/transl_table=11
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/protein_id="Prokka:DMACINML_00338"
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IDEGEDPKSAVLRELKEEIGTNEVEIIAEHPEWLSYDFPEKIAKKMYPYDQSQKYFL
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gene 76555..77622
/locus_tag="DMACINML_00339"
CDS 76555..77622
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/protein_id="Prokka:DMACINML_00339"

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KLDDKMLQFELEQLKQIKNLITHLSAYNLTIIEPLSTFAKKDHFKKNAPYLMKFFIQE
LQKLGFLQYEISNFAKNKAQICKHNLAYWKGLDYLGCGLSAVSCYKNERFYTAKNLKD
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gene      77686..78090
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CDS      77686..78090
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SSIEKEIRINDLKEEAKKYKDEFSSANENIRKLSFEFDDLKRDILDKTKVDLTFDS
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gene      78091..78837
          /gene="tatC"
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CDS      78091..78837
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LVVPFVSFASIMFALGACFCYFIVPLAFKFLINFGLEDNPNVITIGTYVDFFTKVV
VAFGLAFEMPVIAFFFAKIGLIDDSFLKRHFRIAVLAIFFVSFAMTPPDVLSQFLMAG
PLCGLYGLSILIVQKVNPPAPKDEEKEESDK"
gene      78834..79859
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          /gene="queA"
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          /product="S-adenosylmethionine:tRNA
ribosyltransferase-isomerase"
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FKSVECENLENHKMHSEFFDIPKKACEVIDSQKKILGIGTTVTRTIEYYARTKQSQGF
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gene      complement(79862..80815)
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          /locus_tag="DMACINML_00343"
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          /protein_id="Prokka:DMACINML_00343"
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          CHLLANCVIGSDGFGYAHNKNGEHYKIYHNGNVILEDVFEIGACTTIDRAVFDSTI IK
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gene      complement(80812..81276)
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          /locus_tag="DMACINML_00344"
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          /protein_id="Prokka:DMACINML_00344"
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gene      complement(81273..82973)
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VPKDVSAALGIWDYPKEISMKTYKPIYKGNKQIKKLAENLEEAKRPLFYLGGGCIAS
NAADEIRELVKITQIPAVETLMALGTLRSDELNLK MAGMHGSY TANMALSECDLLVA
IGARFDDRITGKTSEFAKHSKIVHIDIDPSSISKIINAHFPIVVDIKEVVKELLEELK
KNQFKSNIHEWRQTLKRYDELYPLAYEDSDEVLPQWVIQECAKLAPDARIITDVGQH
QMWVAQFYPFNYPRQLATSGGQGTMGYSLPAALGAKLAVGEEVVINFVGDGSVLMNIQ
ELMTAYENGIKTINIILNNSFLGMVRQWQSMFYEEHFSATDLSLQADFVKIAEGFGCE
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gene      complement(83051..83494)
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CDS      complement(83051..83494)
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gene      complement(83511..84530)
          /gene="ribB"
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CDS      complement(83511..84530)
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VNFMIKEARGVVCVALAEELARKFELPLMVPKNTSNHETAFTITVDAKDATTGVSAYE
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ICEIVKDDGDMARRSDLEEFCAKHNLMIAVSDIIEYRLKNESLIKLQEKS DAILAGF
KAQKFIFTDHNAQHIAFAFKEIQKCENVKFHISGSDFELLTSDKFSKLLDQICFLSE
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gene      84637..84711
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tRNA     84637..84711
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          /product="tRNA-Gln"
          /inference="COORDINATES: profile:Aragorn:1.2"
          /note="tRNA-Gln(ttg)"
gene      84743..84818
          /locus_tag="DMACINML_00349"
tRNA     84743..84818

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 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Met(cat)"
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 tRNA complement(85033..85108)
 /locus_tag="DMACINML_00350"
 /product="tRNA-Phe"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Phe(gaa)"
 gene 85250..86593
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 /locus_tag="DMACINML_00351"
 CDS 85250..86593
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 /locus_tag="DMACINML_00351"
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 FHSISAFNNSGFTIFENGLLAYKHDVAINLIFTSLIIIGGLGYFVLVELYFFQRKRLQ
 NLSLHTKVIMATLFLIVSSTLIIFLLEYANPKSIGSFSLFDKILSSYFIAINYRTAG
 FNTLDMSGLHDASLFFGSLFMVIGGAPGGTAGGMKITT VVVLLFYAYWSIRNGRVRI
 NHEIPQEIISRAFIIAVGSAVYIVIAVIFLSLLESEFNFIHLLFETSSAFATVGVISVG
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 gene 86606..87256
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 /locus_tag="DMACINML_00352"
 CDS 86606..87256
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 /protein_id="Prokka:DMACINML_00352"
 /translation="MKKLSYGVIGLGKFGSVVADELIAGGHTVIIADKDEEALKSIQN
 SPSYAYILDSTNISALKEAGFHDVEVVIVSIGENVEKSIL TLMALKDIGVNNIIAKAT
 SNIHGQILSKLGATKVIYPEKESAKKLVKDFLTKDADYEVFDLSANTIRAIKITIDDK
 LAGNSLKHIAQNMKVISYKKLNTDWEILPDLETTTVYGGDVVILLGTVKELREFEH"
 gene complement(87257..87964)
 /locus_tag="DMACINML_00353"
 CDS complement(87257..87964)
 /locus_tag="DMACINML_00353"
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 /inference="similar to AA sequence:RefSeq:CAL35399.1"
 /note="conserved hypothetical protein Cj1285c"

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YKKGVPSKLNKDLFYRRVDAIIVSSIESARKKYKNLDLGICANKRVLSVLVERNTLNA
KDPSSATSNALAKVLKQEGRVIIGDKALKLYLQDPSKYIDLCAKWHEKTGLPFV FARF
SCVQKKALYKQILKKFPKTKIKIPYYILQNYATTRNLDIKDMRYYLDEIIYYKISTKE
KAALKRFIKACKALNPT"
gene complement(87930..88559)
/gene="upp"
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CDS complement(87930..88559)
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/locus_tag="DMACINML_00354"
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/translation="MKNIHHICHPLIEHKLGLRDKETKPFHFRMLIDEISTFLLFEA
TKDLCLKEAQIQTPVANAKVKRLDEKIMICPILRAALGMLDSIFRLIPDASVGF LGFV
RNEKTLKADFYFQKLPKDAKERTAIVIDPMFATGGTAIDACNFLKDQGVKKIKFISIL
AAPQGLENF AKIHSDELVYASIDESLNEKGYIVPGLGDAGDRVFNTLD"
gene complement(88556..89791)
/locus_tag="DMACINML_00355"
CDS complement(88556..89791)
/locus_tag="DMACINML_00355"
/EC_number="1.1.1.38"
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/inference="similar to AA sequence:RefSeq:CAL35401.1"
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/protein_id="Prokka:DMACINML_00355"
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IASNNELAYTYTNKANLVAIVSDGSAVLGLGNIGAQAASKPVMMEGKACLFKKFADV NAY
DLEIEAHSIEEIVAFCKAIAPTFGGINLEDISAPKCFEIEAALQNLGIPVMHDDQHGT
AIISTAGLMNAMEISGKKFEDIKVVVSGAGAAGIASARMYRNLGVKNIILVDSKGVVN
KKRTDLNQYKLEFVSDTQADTLKEAMKDADVFLGLSAPKILDDEMILSMAKDPVIFAL
ANPIPEVMPEDVARLRKDAIVGTGRSDYPNQINNVLGFPFIFRGALDVRATKITENMK
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DGVALLKEFDEKAYFESLK"
gene complement(89791..91182)
/gene="gltX2"
/locus_tag="DMACINML_00356"
CDS complement(89791..91182)
/gene="gltX2"
/locus_tag="DMACINML_00356"
/EC_number="6.1.1.17"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35402.1"

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SKEELDELRAKQEAAKERPRYDGRYRDFGTTPANIEPVVRIKAPQEGEICFVDGVKG
EVKFKVEDILDDFIIARSDGSPTYNFTVVIDDALMGVSDVIRGDDHLSNTPKQIVLYE
ALGFEIPKFYHVAMIHGEDGKKLSKRHGATDVMEYKAMGILPQALLNFLVRLGWSHGD
DEVFSLEDLKKLFDPNHINKSASCYNFKKLEWLNHYIKTLPFEEINRQLKDLGFDLS
AYAKAGFLDLLRERAKTLLIISGAKSIIIEAPQNYDENAINKFINENLLLLQNYAN
ELNEEKSAKDFEFTNEFLQKNEVKLKDLAQPIRIALTGSVSPSIFEVLEFLGVNEC
KKRIEKFLDFK GK"
gene 91247..92062
/locus_tag="DMACINML_00357"
CDS 91247..92062
/locus_tag="DMACINML_00357"
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/inference="similar to AA sequence:RefSeq:CAL35403.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic protein"
/protein_id="Prokka:DMACINML_00357"
/translation="MKKILLSFIFFISLTHANTINAIAVVVDKEPITTYDIEQTMKAL
NIPKNQALGILINEKMELSQIKQFGIYTSELELDNAIDKMLMQNKISLEDFKKDLQVK
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YRSNNAQDLENIRAAIKTPLKAEKAILTPNNSDPRLGLLSPIPLGGFSPVLNSQKGY
EIQVNDKSKGQTPEYYQIKNEVLNAYVSEQRQNYIQDYFDKLRSKINIEYLR"
sig_peptide 91247..91300
/locus_tag="DMACINML_00357"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 18"
gene complement(92090..93421)
/locus_tag="DMACINML_00358"
/EC_number="6.3.4.14"
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/inference="similar to AA sequence:RefSeq:CAL35404.1"
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YADASICIGKARSSESYLNIPAIISAAEIAEADAI FPGYGFLSENQTFVEICAKHNIK
FIGPSVEAMNLM SDKSKAKQVMQ RAGVPVIPGSDGALAGAEAAK LLAKEIGYPVILKA
AAGGGGRGMRVVEHEKDLEKAYWSAESEAMTAFGDGTMMEKYIQNPRHIEVQIIGDS
FGNVIHIGERDCSMQRRHQKLI EESPAILLDEKTRARLHETAVKAAKAI SYEGAGTFE
FLVDKNLDFYFIEMNTRLQVEHCVSEM VSGIDIIEQMIKVAEGYALPSQENVRLK GHS
IECRITAEDPKTFLSPGKIIKYVPPAGRNVRMESH CYQDYSVPPYYDSMIGKLVVWA
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gene complement(93423..93878)

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CDS complement(93423..93878)
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/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35405.1"
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/ transl_table=11
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acetyl-CoA carboxylase"
/ protein_id="Prokka:DMACINML_00359"
/ translation="MTKEEIKELVNLFAEANISKIKIKEQDGFIEI LERDMCCDVPAP
LACPPVPAPQPINVVVNEAQPSSAKSNKPSINSPMVGTFYQAPSPGAAPFVKVGSSV
KKGDTIAIIEAMKIMNEIEAEFDCRIVEILVADGQPVVEFGMPLFTVEKL"
gene 94037..94597
/ gene="dcd"
CDS 94037..94597
/ locus_tag="DMACINML_00360"
/ gene="dcd"
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/ EC_number="3.5.4.13"
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/ inference="similar to AA sequence:RefSeq:CAL35406.1"
/ codon_start=1
/ transl_table=11
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/ protein_id="Prokka:DMACINML_00360"
/ translation="MGLKADNWIRKMALEHQMI EPFCEANIGKGVVSYGLSSYGYDIR
VGREFKIFTNVNSTVDPKNFLEENVVDFEGDVCIVPANSFALARTIEYFKMPDDVLA
ICLGKSTYARCGIIVNVTPFEPGFEGHITIEISNTTPLPAKIYANEGIAQVFLQGD E
KCDTTYKDKKGYQAQTGITLPRILK"
gene 94651..95655
/ gene="pseB"
CDS 94651..95655
/ locus_tag="DMACINML_00361"
/ gene="pseB"
/ locus_tag="DMACINML_00361"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35407.1"
/ codon_start=1
/ transl_table=11
/ product="UDP-GlcNAc-specific C4,6 dehydratase/C5
epimerase"
/ protein_id="Prokka:DMACINML_00361"
/ translation="MFNGKNILITGGTGSFGKTYTKV LLENYKPNKIIIYSRDELKQF
EMSSIFNANCMRYFIGDVRDKERLNVAMRDVDFVIHAAAMKHVPVAEYNPMECIKTNI
HGAQNVIDACFENGVKKCIALSTDKACNPVNL YGATKLASDKLFVAANNIAGNKQTRF
SVTRYGNVVGSRGSVVPFFKKLIAQGAKELPITDTRMTRFWISLEDGVK FVLSNFERM
HGGEIFIPKIPSMKITDLAHALAPNLSHKIIGIRAGEKLHEIMISSDDSHLTYEFENY
YAI SPSIKLVDQESDFSINALGEKGQKVDGFSYSSDNNPQWASEKELLDIINHTEGF
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gene 95656..96786

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/gene="pseC"
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 CDS 95656..96786
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 /locus_tag="DMACINML_00362"
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 /inference="similar to AA sequence:RefSeq:CAL35408.1"
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 /product="C4 aminotransferase specific for PseB product"
 /protein_id="Prokka:DMACINML_00362"
 /translation="MITYSHQNIDQSDIEAVLNALKDEILTGGKKVDEFEEALCEYIG
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 YKGKKVGSMDLSIFSHPVKPITTFEGGAVSVNNEELISKIKLLRSHGIVKKRLWDS
 DMMELGYNRLSDVACALGINQLKKLDHNLKREEIASFYDKEFDKNPYFSTIKIKDY
 KKSSRHLYPILLPPEFYCPKEEIFENLLKAGLGVQVHYKPTYEFSFYKLLGEIRLEN
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gene 96779..98095
 /locus_tag="DMACINML_00363"
 CDS 96779..98095
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 /inference="similar to AA sequence:RefSeq:ALJ17966.1"
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 DAKHDENGLNYADFIIPSTQNSKDEILLSSYLCHPSMANNELSGPIVAIFLAKWLLG
 LKERKYNRYFVPIPETIGSIIYLNKHLKHLKHHVAGFVLSCLGDDNAYSIIHTPKEN
 TLLSDKVMHTLKNKENFKEFSFLERGSQYQYAPLVNLNIVGICRTKYGEYKEYHTS
 KDDLNFISVKGLMGGLKAMQEIIINLEINAIYENTTICEPNLGRGLYHTINNGIKQK
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gene 98092..98877
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 CDS 98092..98877
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 /inference="similar to AA sequence:RefSeq:ADN91469.1"
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 QEGVKRTNDPIFSFAVKGAKEDFLYKEQKSCFDEGCIYNILKNNNGKIVLLGTQLLG
 YTFTHFIEEQARVPYRYFKPFKGDIIYENSNNKTYKINYYVRDLHKKSEVSILKQIAL
 LKNSNNFKLEKIGNAEIVSIDCQAYFDETMKALKQDPYCLLKD"

gene 98879..100387
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 CDS 98879..100387


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VASEILKKLGNPNPTQSPILIIILPKGIDCLISFFGVALSGNFYTLLEKSPKERVEKV
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GSTGIPKGV SIAHKSVIDYTFWVCETFKFDENEILANQAPFYFDNSILDIFSSVKAGA
TLHLLPNHLFAFPNKILECLEKEKVSATFWVPSVLIYFANTEALDNFNLINLKKILFA
GEIMPKNQLNIWRKHL PDTLFANLYGPTEITVDCSFYIVDREFKDEELLPIGKACKNT
ELLVFDESMNLISSKQVGK GELYVRGTSLSLGGYNDKEKTQKAFIQNPLHDNYLDLL
YKTGDIVAYNERGELLCYGRADNQIKYMGHRIELGEIESVINSHPKVKNSACIFKDKI
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gene 100374..101117
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CDS 100374..101117
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/inference="similar to AA sequence:RefSeq:AAW35938.1"
/codon_start=1
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/protein_id="Prokka:DMACINML_00366"
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FFYENNSHLLYYFINDTNKKNLKP SFIKISIKHEKYLDHDLNFIHLHSFNVELECQ
EMCLKNKNIIILHDFPFITQANIQDYEQIYNFFLKHFSKDFLFYFSKNDIKNKINQILI
YKENGIIRGALIYTLTIKSAFLDFIAVDKNLHYKNVAFALLNTYFKKNFNTHLFKLFV
SVHNLKALKFYQRAGFTLNTAKILYYKNF"
gene 101144..101380
/gene="acpP4"
/locus_tag="DMACINML_00367"
CDS 101144..101380
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/translation="MQNTLELIKQFFINIDRSIDENMENLLSEDIIDSMDIMSLVAE
IEKYYKPLKA EFIKAENFESFQTIKNMLEQAMK"
gene 101382..102533
/locus_tag="DMACINML_00368"
CDS 101382..102533
/locus_tag="DMACINML_00368"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AVS37640.1"
/codon_start=1
/transl_table=11

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EKILKLCNKLDNESKALIFRILTRLKNFQTNPNYQIKYTKEEKQDLEKLQNEFFSNIL
PISKGIFGWNGYFLPIKQFEISVFWHKHAMHTFSNQTLEKIKNKNIIDVGGFIGDSA
IFEKEFTNQKVYSFEAVSKNYDLMLKTLELNNSKRIIPVKNALGSKEEKLQISISGYS
SSLKHGESNSNYEEVEVITLDSYIEKNPMEIGFIKVDIEGFEQEFKGAINTIKAQKP
AMLISIYHNPNDFFDIKPLIESWNLGYKFKIYRPIDFVVSLETALYCEI"
gene complement(102530..103738)
CDS /locus_tag="DMACINML_00369"
complement(102530..103738)
/locus_tag="DMACINML_00369"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ADN91473.1"
/codon_start=1
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QNFGIMAAIDHINVLKDLVKKFPNFKNLPKIYGGGSYGGYLSLLIAKIAPWYVDGVID
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ALLNSFHLQIQAKNNNIIFIGYHSKDEFDTSKDKETLFESYKALGYDSTLYLIKDE
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CDS 105328..105789
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gene 105829..106464
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CDS 105829..106464
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aminotransferase PglE;
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aminotransferase"
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gene 112321..113286
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gene      complement(128691..129935)
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gene      complement(129922..130449)
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CDS      complement(129922..130449)
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gene      complement(130452..131459)
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CDS      complement(130452..131459)
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GESFDKVAKMMNLGYPGGVLIENLAQKAKLKNIHFNIP LKHSKELAYSFSGLKNAVRL
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CDS      complement(131456..132850)
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YQTVQRIKELILLPEVSMVINLHDGWGFYKPTYIDAMQNPKRWGNSSVIDTSEINASK
YPNLEGIATQTVNSVNASLADPKHAYHLKNTKTQELGDTEMLKALTYFVISNHKAFA
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ILLSLKNPRQVINYPFPINKELNYNTSNELTAVIAENNSFYIQYGNRFQTRLYPEYL
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gene      complement(132847..133923)
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CDS      complement(132847..133923)
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PKSLVHAMCEFKN GASTAYFSRADMKLSISEAIFSKHDSKILEPVDFVKLSSLKFYKI
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gene      complement(133920..134648)
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          /locus_tag="DMACINML_00398"
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          /locus_tag="DMACINML_00398"
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          /transl_table=11
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gene complement(134657..134995)
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CDS complement(134657..134995)
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 QSIHHIDISI"

gene complement(134998..136305)
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CDS complement(134998..136305)
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 RGMSAIYTAKLMSKNYNAPDFMLKKYFNNAFIKEVKLLQGNRILCFSVRVDKAYKSY
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 IKNFNDYFTQKFEILHANKIKQIQTLKLAQIDKKIENLEELYLALDKEELLLDQALNL
 RKQADILFANLSILKEYEREFELDDFEGKKVKFKLDLSPKESANLFYKNAKKLEQKAR
 NLNLQRENLEKLDFAKGLKEMLSKAKNEFELEILLPKKSTKKNQENKQDSGIANFYF
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gene 136368..136943
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 FKNVYVSAKEDKFGAKFKLIKDCPEFEIYSPMLALYSILSNFKDEFVILSVDSPNLS
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gene 136940..137935
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 SSVFLYQRFLFVPRIWYRIPENSEDDDNPEITHYMGNFDINMGYLGNDYFNLMLRNN
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gene 138068..139036
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CDS 138068..139036
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 YALNYIQNIQGWLQGSANVMQGNLYELLYISLPLFILAYFLAHKITIAGMGEDLALNL
 GVSYNTILFLGLIIVSIITSVIVSVGVIPFLGLIIPNLVAIYRGDNLKKNLIIYIALC
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gene 139029..139967
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CDS 139029..139967
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 GRMFASFDNVAFDVLALAYIVTLLSFVWIFRYMKFLDPLSLGKDLINLGINYQKISK
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gene 139964..140719
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CDS /locus_tag="DMACINML_00405"
 139964..140719
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 EPLNNLDMKHSVQIMQLMKNLVKDFNKSIAVVLHDINFASIYSDEIIALKNGKLLKQG
 LKDEIIHEDVLRQIYDMDIPVSQIDGKKICIFY"

gene 140734..141723
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CDS 140734..141723
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 FLSSFENNVLSVAKLYGLEKEASEKIADIKNEIEQAKSMVDEDKRALIVLTNSNKISA
 FGPQSRFGIIHDVLDGINAVDENVKVGTGKINSSEFILEKNPDYLFVVDNRNIIVGNKE
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sig_peptide 140734..140796
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 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 21"

gene 141888..142442
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CDS 141888..142442
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 AQNEYAITLKTRSLLDGMIMLHKDKGAWYFSVLSIGFGIALFLLYISGLIITLFASKK
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gene 142510..142600
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tRNA 142510..142600
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 /product="tRNA-Ser"

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/locus_tag="DMACINML_00409"
CDS complement(143077..144909)
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LINNIAGKDFVAFNSTNYWTMIKNVPAVDGIVENSPEHAGPHGGKRMGVTCADCHNPN
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EMLDDYIEKVRNVFGADFTKLTGAPIIKIQHPESELYSGGVHAANGVSCADCHMPYV
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CDS complement(144925..145416)
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gene 145600..147684
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/inference="ab initio prediction:Prodigal:2.6"
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/transl_table=11
/product="polyphosphate kinase"

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/protein_id="Prokka:DMACINML_00411"
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KICDKTHPELIKFGMIRIPRVLPRFYEVSANVYVPIESIVEKHTEEIFPGYKLLASAA
FRVTRNADMVIEEEEADDFMMILEQGLKLRKGAFVRLQIQKGADEQIVEFLNTHMKI
FHKDVYEYSILLNLPWLQIAGNKTFTHLLSPLYAPKTLPPFDENLSIFDAIDKEDIL
IIQPFESFDPVYKFIKEASKDPEVISIRMTLYRVEKNSNIVQALIDAASDGIQVTVMV
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NYNASSAKIYTDVSYFTSKVEFARDTTSFFHILSGFSKNRRLQTLSPNQIKEKILE
MIALEASKGSEGVIIAKMNSLVSDIICALYGASIKGTQIDLIVRGICCLKPNEEFSK
NIRVRSIIGKYLEHARVYFKHSEPNYFISSADWMPRNLERRLELMTPIYDERSKAKL
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gene      complement(147817..148704)
          /locus_tag="DMACINML_00412"
CDS      complement(147817..148704)
          /locus_tag="DMACINML_00412"
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IFHYVAKGNSRFADGKRGVLAFLDEAGDWSGTATELTEDKLNQILQNIWNAGVTPKDV
FLGADLKGAINKFATRILGNETKLVGQVVSLEDFGTVNFHMRLLSPKYGLGDVLIA
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gene      complement(148783..149442)
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CDS      complement(148783..149442)
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gene complement(150195..150710)
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CDS complement(150195..150710)
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 /inference="similar to AA sequence:RefSeq:ABS44288.1"
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 GYGLSHIIDEHPELDLNIPEIIEKGEIAQRKNREKSFNIVFKDYILGLNKGFNKNGE
 NQWIVTAFEKK"

gene complement(151298..151656)
 /gene="ssrA"

tmRNA complement(151298..151656)
 /gene="ssrA"
 /locus_tag="DMACINML_00416"
 /product="transfer-messenger RNA, SsrA"
 /inference="COORDINATES: profile:Aragorn:1.2"

gene complement(151657..152067)
 /locus_tag="DMACINML_00417"

CDS complement(151657..152067)
 /locus_tag="DMACINML_00417"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35473.1"
 /note="hypothetical protein Cj1361c"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
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 /translation="MGILTKLELDYEIDDIEKFLQFFRTMCDRFEPLIIQLGSDSVRY
 KEAIKELETLAHTAWAARRLNLEEVTDFCVFCCEEMMAQANRFNGPASDEFTDWMLLM
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gene 152158..153168
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CDS 152158..153168
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 /locus_tag="DMACINML_00418"
 /EC_number="3.6.1.-"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35474.1"
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 /transl_table=11
 /product="holliday junction DNA helicase"
 /protein_id="Prokka:DMACINML_00418"
 /translation="MDRIVEIEKYSFDETYETSLRPSNFDGYIGQENIKKLNLFISA
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EGDVLFIIDEIHRLSPAIEEVLYPAMEDYRLDIIIGSGPAAQTIKIDLPKFTLIGATTR
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gene      153178..154221
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          /locus_tag="DMACINML_00419"
CDS      153178..154221
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          /locus_tag="DMACINML_00419"
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          /protein_id="Prokka:DMACINML_00419"
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gene      complement(154268..155659)
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          /locus_tag="DMACINML_00420"
CDS      complement(154268..155659)
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          /locus_tag="DMACINML_00420"
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          /product="fumarate hydratase"
          /protein_id="Prokka:DMACINML_00420"
          /translation="MEYRIEHDTMGEIKVPNDKYWGAQTERSFENFKIGCEKMPKVL
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MNMNEVIANRATEIMGGDFRKEKLVHPNDHVNMSQSSNDTFPTAMSIVAVEQVEKLI
PALDELIATFEKKVKEFEGIIKIGRTHLQDATPLTLAQEFSGYLSMLLHSKEQIITSL
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gene      complement(155794..157590)
          /gene="glmS"
          /locus_tag="DMACINML_00421"
CDS      complement(155794..157590)
          /gene="glmS"
          /locus_tag="DMACINML_00421"
          /EC_number="2.6.1.16"
          /inference="ab initio prediction:Prodigal:2.6"

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/transl_table=11
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aminotransferase (isomerizing)"
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VSKKDPTRVFFAKNAAPLIVGKSKNREFYFASADTPLIGLCDEVIYLEDLSLGYASEN
ELVIYENNQLKQNSFTKLSGDKAYAKKDGFRFFMEKEIYEQSRVMSEVLMGRINGDEV
VFDELENENLSTVDEITLCACGTSYHAAMASAYL FERLAKVKAKVEIASEFRYREAIV
KPNSLFIVISQSGETADTLEALKIAKEQGAKTFAICNVDNSNIVRLAHL SLLTRAGIE
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SKRYLDGHGFFFIGRDVFYPLALEGALKLKELSYLHAEGYPAGEMKHGPIALADSKLY
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gene complement(157594..159942)
/locus_tag="DMACINML_00422"
CDS complement(157594..159942)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35479.1"
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/protein_id="Prokka:DMACINML_00422"
/translation="MLNKELELFKKNLNTYAQNRYKFFLKQGSFSLYHSKNMDNFLKQ
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ILRANKNEFAQILLANFKDFNLPFIKQEFNIKKDFGGLDHLRALESLLILFKNSPKNY
ALNFIDEKNLSELRLAADFLLSLKSAINLQSNKDQDEF LFSNIHEIAELMYRKGKKNL
DAEKILVQKALQSMHTIGFYTHFLAYKIQNELQNL TQKQYQFKNLAEALTFLLDLEDQ
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GMVRFSLDDEGDYSFDEQAFLLLKEFEKYEDELESKLNNADEKMILKLVILLSAINN
ENEISLASIYRAYCVKFNKNDIFELGLRIFKNHNALKELA EKEDVYNPIIICALLSK
VENLKTLELLHTLTWLKAKALNRNPFYKVIDRILENAKQGFDDENLLDETARRVKKE
LTLKRTKFLDQNAI LQDKITHIKSNLFIKNTFEDIVEIARFAKENDFKFWSNSTN
LSLQIVAFKDFKIEIVLTALANLNLVFMNLFELFDDKIYLRFEYDNIITDEQKIKLCE
LLNSNL SGFSSKIKKPIIKKDELKLDL NYSKIYAKLSLNTK DQOGLMAYMMNIFNEL
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gene 160085..161149
/locus_tag="DMACINML_00423"
CDS 160085..161149
/locus_tag="DMACINML_00423"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35480.1"
/codon_start=1
/transl_table=11
/product="putative radical SAM domain protein"
/protein_id="Prokka:DMACINML_00423"
/translation="MKNLLEKLENEERLNENEANALWDLDFLTLAKFAHKKRTKLHGK
KVYFNINRHINPTNICADTCKFCFAFSAHRKNPNPYLMSHEEIMKIVDDTITRGTKEVH
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gene 161160..162479
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CDS 161160..162479
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35481.1"
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 /protein_id="Prokka:DMACINML_00424"
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 SIGNFKNPHVLFGIFTLILIIFFWAIKLRGAFILGVLISSIIAWIFGIDNASFPEQIF
 SLPNFSNENGLGAIFFLELDIKSALNIAMIPIILTFITQLFDSIGTITGIGERGKIFD
 DAKNGEKKLGKTLMADATGSALGALGGTSTVTAFFVESTTGVESGGRTGFTALVVAICF
 AFTLFLPLFKAI PANAIYPVLVMVGILMFMEVKNIDFKDSIAIVASFFTIIMPPFTY
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gene 162497..162940
 /locus_tag="DMACINML_00425"

CDS 162497..162940
 /locus_tag="DMACINML_00425"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35482.1"
 /codon_start=1
 /transl_table=11
 /product="putative nucleotide phosphoribosyltransferase"
 /protein_id="Prokka:DMACINML_00425"
 /translation="MIFYSYEEFKEDVKILAKEIKEDFNPDALLAIARGGMSLGHSLA
 VALQTRNLFALNSIHYYDDTKKLDTIEIFNIPDLSKHKILLIDDIVDSGESLAEIKKV
 LLEKFPHIELKIATIFYKKTALLEPDFKIKEAKEWVEFYWDIHID"

gene 162982..163680
 /locus_tag="DMACINML_00426"

CDS 162982..163680
 /locus_tag="DMACINML_00426"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ABS44654.1"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_00426"
 /translation="MRLKLISCILLFSTIFAFANELDLNDFEEYQSYKVNDPLSGYN
 KAMTSFNVTLYDYGFRPILKGYNAITPEFIRTGVRNFFDNLFSPLRFVGNVLQFKFEE
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 NLRDALTLPATWYASPTAYIDPTWASIAISAYGFGNELSFRLEIDEIYYNTPNLYPF
 IRDAYEQRRNELSK"

sig_peptide 162982..163041
 /locus_tag="DMACINML_00426"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 20"

gene 163690..164259
/locus_tag="DMACINML_00427"

CDS 163690..164259
/locus_tag="DMACINML_00427"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35484.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic protein"
/protein_id="Prokka:DMACINML_00427"
/translation="MKKIFLILTLNIFALQLDEISGTMQKNINKSLQLLQNNKEDK
KQAADGIFLIFDHIIDYKLMAQLSLSKDYSKLNPKQEKFASAFEASLKKSFDTKLN
YKDQVLMVKNKNGELKNAKRYFLTSSMIVDGEKNIIFKFYNNNDWLIYDIDVLGVSIV
QTYRSQFGDILANQDFDTLLQKLENITIE"

gene 164259..166721
/locus_tag="DMACINML_00428"

CDS 164259..166721
/locus_tag="DMACINML_00428"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35485.1"
/codon_start=1
/transl_table=11
/product="putative ntegral membrane protein"
/protein_id="Prokka:DMACINML_00428"
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LEDDKDLKIFRELSKHYKSDNLLLAFKPEDENPFSNKNLNKELHQELEQVSLVER
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KLRVENSFVNYFKDGSEIKKGLLVIDKILGGTLPDIIIRFPNNENNSLNDVDFSFE
SEFDALATKDTYWFNSQKTRIAKKVHEFLENKEFIGSVLSLNSLLSLGKNINDGKDL
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PSLLITIYTKKTKALNPYKVHK"

gene complement(166755..167363)
/locus_tag="DMACINML_00429"

CDS complement(166755..167363)
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/inference="similar to AA sequence:RefSeq:CAL35486.1"
/note="conserved hypothetical protein Cj1374c"
/codon_start=1
/transl_table=11
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/protein_id="Prokka:DMACINML_00429"
/translation="MKILLATSNKHKVIKELKELKEFEIYAFDEILTAFEIEENGNSF
KENALIKARAVFKALSDKQKNDFIVLSDSGICVDVLGGKPGIYSARFSGKGGDKSNR
DELVKQMGALGFKTSKAHYVAIALVSLGGEWTTGSMHGDVIDIERGENGFYDSL
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gene complement(167335..167790)
 /locus_tag="DMACINML_00430"
 CDS complement(167335..167790)
 /locus_tag="DMACINML_00430"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ADN90629.1"
 /codon_start=1
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 /product="Integral membrane protein"
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 /translation="MNRFQTFSLMTEGKVNSELLMDYKDKLETLSDEAMFYFCSLELK
 NPIIGLILGVTPAFILSGLTFDRFYKGMGLGFVKMAMWAFIFIGLLIAGFFDSSSML
 VWFIFNIIALFIWNILDFFLVWQGIKNDNLAKIIQFLEQDNENFISNKQ"

gene 167933..169228
 /locus_tag="DMACINML_00431"
 CDS 167933..169228
 /locus_tag="DMACINML_00431"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AAW36002.1"
 /codon_start=1
 /transl_table=11
 /product="multidrug resistance efflux transporter,
 putative"
 /protein_id="Prokka:DMACINML_00431"
 /translation="MLNNVPLPSFIVGTRFFGLFIVLPVLSFYALELQGANEFVGLL
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 GAGAIGAVATAMISDFITEENRGKAMAIMGSFIGLSFAASMVISPLMSAKWGLSSFLD
 LSAALLLCIILLYTVVPKENKITHENTKTPFLHLIKQKNLALMNFTNFMQKMLMSIA
 FLSIPIILVKHLGFDEHKLWIVYTASMIAGFIAMGFSGLGEKRGSLAKQILLGLIAFF
 ILSYIFFVFSNSITFFIVAVVIFFIGFNLHEPIMQSCASKFCKVHEKGAALGLFNAFG
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gene complement(169230..169757)
 /locus_tag="DMACINML_00432"
 CDS complement(169230..169757)
 /locus_tag="DMACINML_00432"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:EAQ72915.1"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_00432"
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 SFSITLQNPSKIQSALKDELALRLKNLGLKEVSLNADYEILINLVDFKKHSYAQRITS
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 LENKIINQISSFFYF"

sig_peptide complement(169695..169757)
 /locus_tag="DMACINML_00432"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 21"

gene complement(169757..170467)
 /locus_tag="DMACINML_00433"
 CDS complement(169757..170467)
 /locus_tag="DMACINML_00433"

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/inference="similar to AA sequence:RefSeq:CAL35492.1"
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/protein_id="Prokka:DMACINML_00433"
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RANFTKNVKPVVQEETMLIALGDKSKPAIYVFSDEPCPYCRDHQAQIKDELKQYQVNY
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sig_peptide complement(170417..170467)
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/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 17"
gene complement(170516..172315)
/locus_tag="DMACINML_00434"
CDS complement(170516..172315)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35491.1"
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factor"
/protein_id="Prokka:DMACINML_00434"
/translation="MNSLLIGTAGHIDHGKTSLIKAINGFEGDSLKEEKERQITINLS
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NPVSEPLKKEQKNKFLMLLKNKELKKAFFLKNTHKYGFLLSSYQRFKLSHEEALNL
AKELSGVFIDEKNLNIYNLLALDELKFFISFILEKNPYAMLSATSLALRLPWASAFC
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gene complement(172312..173634)
/locus_tag="DMACINML_00435"
CDS complement(172312..173634)
/locus_tag="DMACINML_00435"
/EC_number="2.9.1.1"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35490.1"
/codon_start=1
/transl_table=11
/product="L-seryl-tRNA(SeC) selenium transferase"
/protein_id="Prokka:DMACINML_00435"
/translation="MNKFRTPQIGSLIDDESLEKEYPFYLRSHFCKSVVAKLKANITE
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gene 173704..175365
/locus_tag="DMACINML_00436"

CDS 173704..175365
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/inference="similar to AA sequence:RefSeq:AAW36003.1"
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/transl_table=11
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/protein_id="Prokka:DMACINML_00436"
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GSAEIDLNTFFERKFQKEAIFTAKDEKELQNALEKQEFIENLSFDFHNNTLTTREN
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LKFNASLCTTCGYCEVSCAEKDTLKLTRSGMEFNPSYFEYQTMAKDELFCIECGKEF
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gene complement(175528..176019)
/gene="fldA"

CDS complement(175528..176019)
/gene="fldA"
/locus_tag="DMACINML_00437"
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/inference="similar to AA sequence:RefSeq:CAL35494.1"
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/translation="MSVAVIYGSAMGNTEGAANTIASKLGISDVLNVADIDAAKINSY
DKLICGTSTWGSGLQDDWDGDFDGLSLGGKTVAVFGMGDSESYSDTFCGGMGKLAE
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HFA"

gene complement(176019..176714)
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CDS complement(176019..176714)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35495.1"
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gene complement(176714..177031)
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gene 177222..178646
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CDS 177222..178646
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 FWSLCPESLHQVTILMSDRGIPASYRHMHGFGSHTYSFINDKNERFWVKFHKTLQGI
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 KIWPHSIVPLMDIGEMILNQNPQNYFNEVEQA AFSPSNIVPGIGFSPDKMLQARIFSY
 PDAQRYRIGTNYHLLPVNRARSEVNTYNVAGAMNFD SYKNGAAYYEPNSYEE SPKEDK
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gene 178704..179171
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CDS 178704..179171
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gene complement(179175..179843)

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 ILCINHDTSMRDLVCKIIDIEKLLDDMGEFLNQNKENNTSVDSLGNIIETLSHSIEEIL
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 NFKS"

gene 180017..180379
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 180017..180379
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35500.1"
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 /protein_id="Prokka:DMACINML_00443"
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gene 180383..181909
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 PSHAGLGLLLMVTMYPILVRSVSKLSALSVIGICQYIDHGPVSGNVIMASEKAEIDP
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 TFVAIAFEMIRYKSVETLNSIMIFFKGMGHLFVITVSLIVCGQVFASGLLSVGFVDT
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 IAPIQIMTGFGRCSVPIAPAILAISAIKVSFVAVKRTAIPMLVAAIVNIIMTYIYL
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gene 181921..183084
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 /locus_tag="DMACINML_00445"

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IIDLPKLCKIAHSHNIPVAIDNTYSSGYFLNPLELGVDISVIAATKYLSGHSVDVTMGV
VVINEKEWKNFDKLPEALGFTTSPDDAYLVLGRMRTLDMRKAHEKSADEIVEFLQTR
KEIKTIFYPKPKLTHPNHEIFMRDHKGANGMVTIEFAEGYSKEDAIFVDELEYFSIGA
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gene 183094..184461
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CDS 183094..184461
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35504.1"
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/protein_id="Prokka:DMACINML_00446"
/translation="MTGISVFDHKL LADSWS TQDMRAVFCEENRIQKWL DVEAALAKA
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VHFGVTTQDIIDTGLVLQFKEAMTLVKSELKAIKALAKLAKTHKNTAMMGRTLALQA
LPITFGHKVAIWLSELD RHFERILELEKRLYVGSIVGAVGTKASLSDECNEVEKLTLE
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CDS 184470..185810
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AKNNMSGPLSIFEGRDNI FKCFIGIEQECDKTELDKGLGEI WQSMQVSIKPYPSCHFAH
GLIDCAIALKNDGLKADEIKSIRCFVDEVPISFICDPLEAKYTPNSAYEAKFSMPFLM
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CDS complement(185980..186144)

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DEVRKNLKII"
gene complement(186110..186382)
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CDS complement(186110..186382)
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CDS complement(186559..187149)
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EIDKWILKPAIKELSKERDLFDQIRVPFKNLAYEKEKAKGRGRGGKVSIGITFTFKPEN
IQMQKLENESQKIMSDEQKYLKILNNMKNLQVRFVYNDKLLWQFNDFDNFNKIIAVAL
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gene 187802..187894
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CDS 187802..187894
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/translation="MKKIILGLAVIASLSSLALAKITVSQQPIV"
gene 188003..188209
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CDS 188003..188209
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gene      complement(189007..189129)
CDS       /locus_tag="DMACINML_00454"
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          /locus_tag="DMACINML_00454"
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          /inference="similar to AA sequence:RefSeq:ASI88145.1"
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          /transl_table=11
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          /protein_id="Prokka:DMACINML_00454"
          /translation="MILVTPCGVMDIVNFAKSKINKQIFRYICLILKICYNVIF"
gene      189394..189618
CDS       /locus_tag="DMACINML_00455"
          189394..189618
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          /product="putative ferrous iron transport protein"
          /protein_id="Prokka:DMACINML_00455"
          /translation="MTLNELKDGQSAIIEIKAYKELHSRLLSFGFMKNKTLKKVHSS
LKNATIMVEFESTCVILRSNEAETIQVEPL"
gene      189615..191456
CDS       /locus_tag="DMACINML_00456"
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ILFENKFTPksRFSTPLCEKSLEKEDILTLVNELSRKVITYKKEERNLTKKIDALLIH
KFFGLPIFLFMWLLFQLTFTLGQIPMDYIESGFNALGEVWKNNIHNTFIASALADGA
IAGVGAVVFLPNIIILFLGIALLETTGYMSRVAFLLDGILHKFGLHGKSFIPPLITGF
GCSVPAFMATRLLKNKRDRLLTLFVINFMSCGARLPVYVLFIGAFFPSEEAGNYLFGI
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TFILVASLLIWFASNFPNNESNLDDFSAQERAVEQSYLGQFGKTIIEPIFSPLELDWKL
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 KAIFAVGTCSSYGGIQAAYPNPSKTCGISEVLTQKVVNIPGCPPSDVNIIVTLTYFAL
 FGILPELDEQNRPVWAYGKCLHDL CERKAKFESGIFA EHF DDEKAKSGACLFKIGCKG
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 KRVEPIAE EFGSNFVYELDVNNNEHLDSIAEKIKDLGEIDFIVHAVAYAPKEALENS
 FLETSKEAFDIAMGTSVYSLLSL TRAVLPVLKENGAIL TSYLGGVKYVPHYNVMGVA
 KAALESSVRYLARDLG IKGIRVNAISAGPIKTLAASGIGDFRMILKYNEINAPLKRNV
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gene complement(194454..195656)
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CDS /locus_tag="DMACINML_00460"
complement(194454..195656)
/ gene="pgk"
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TKFFDENHKGAGFLLQKEIEFAENLIKRPARPFVAVVGGSKVSGKLQALTNLLPKVDK
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SQESPMKFVPSQEIPSGWMLDIGPASVRLFKEVISDAQTIWNGPMGVFEIDKFSKG
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gene complement(195659..196657)
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CDS /locus_tag="DMACINML_00461"
complement(195659..196657)
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gene 196719..197264
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196719..197264
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gene 197293..197619
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gene complement(198257..199621)
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     /inference="similar to AA sequence:RefSeq:CAL35517.1"
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gene  complement(200620..201042)
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CDS   complement(200620..201042)
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gene  complement(201039..202409)
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gene  complement(202406..203527)

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CDS /locus_tag="DMACINML_00469"
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gene complement(203594..204778)
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CDS complement(203594..204778)
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gene complement(204775..206802)
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GFDALLRGKKVVYVGKPFYAGWGLTQDLHHISRRTVLSLEELVAGVLILYPRYIHPK
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gene complement(206838..208529)
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CDS complement(206838..208529)
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gene complement(208559..208993)
 /gene="lacA"

CDS complement(208559..208993)
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 /translation="MSDKCKIVIGDNCFFNGGNISLLCGEMNTHIDIGNDCLFASDIT
 LATSDNHSIFNKETKRLNYAGNIVIGKHCWICDDVKILNHSYIGDECVIATKALVVS
 FPKKLFSSFYQPPNCCIIGGIPARILKKNIVWHREIKEFLE"

gene complement(209083..209277)
 /locus_tag="DMACINML_00474"

CDS complement(209083..209277)
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 /inference="ab initio prediction:Prodigal:2.6"
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gene complement(209349..210830)
 /gene="mshA"

CDS complement(209349..210830)
 /gene="mshA"

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/protein_id="Prokka:DMACINML_00475"
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complement(210834..211562)
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gene complement(211556..213550)
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gene complement(213554..214831)

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CDS /locus_tag="DMACINML_00478"
 complement(213554..214831)
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 /inference="similar to AA sequence:RefSeq:AJK71602.1"
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gene complement(214839..215930)
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 DLPASII RRIPVRYIYDNNYFNDPYQGIPIGGYTAIF EKMLENCEVLLNIDFLKHKKE
 FQNKAKKIIFTGTIDSFYNYEYGP LEYRSLRFEHKILNTDNYQGVAVVNYTDKETPYT
 RTIEHKHF EFGKQEKTVVSE EYPLEWTKDIEPYYPINDDKNQKLYEKYLELAKKETNV
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gene complement(215976..217364)
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 WQGMVNFTFLKNIKLKF IKGIFAEDCHFGVLLFALS KNIIYIFPKQIYIYRLRESSSMN
 FTRKKWAIHPD SHLKKIDIFENSNETR LYETT SWMQIALEFIKF IHSKHLSDEIKQ
 HF LPPVCNKAL TLQFKDPLYLK KYAKNLKIYIQNQPLGAVSRVKEYLSYKIAKEIS
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gene complement(217354..219000)

CDS /locus_tag="DMACINML_00481"
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KEIEIYLQEEKFDKILLDKNIYNEDLHEIFKNYLCVYFELGILPDSWLFYKDTNELYD
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gene complement(219006..219953)
/gene="kpsF"

CDS /locus_tag="DMACINML_00482"
complement(219006..219953)
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/locus_tag="DMACINML_00482"
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/protein_id="Prokka:DMACINML_00482"
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MGDALAAALMKARNFRPDDFALFHPGSLGRKLLTRVSDLMVSKNLPVHPDTEFNDL
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gene complement(219963..221594)
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CDS /locus_tag="DMACINML_00483"
complement(219963..221594)
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 AIKAEQAKLILEFIQRARELEPKGQIVIDKPKSYGEVILEEGDTINVPSKNNLIIVQG
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sig_peptide complement(221517..221594)
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gene complement(221596..222711)
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CDS complement(221596..222711)
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gene complement(222711..223373)
 /gene="kpsT"
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CDS complement(222711..223373)
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gene      complement(226691..227656)
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gene 12753..14270
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gene 19561..20169
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gene complement(26249..27550)
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gene 28149..29795
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CDS 28149..29795
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          /inference="ab initio prediction:Prodigal:2.6"
          /inference="protein motif:HAMAP:MF_00594"
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          /translation="MKKIALFFVLVCLLNLDKDKEWLPKGESISVY EYIPNNPRSP
AAFSSVDAKKNANQRKGGQVYSKWCIA CHGQGMPTNALSALYKDQGIPALLEDRTD
LSPDLVMIFVRYGKHSMPFFRKTEINDKELQYLGEYLGRNYK"
gene      complement(30348..32018)
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          /locus_tag="DMACINML_00543"
CDS       complement(30348..32018)
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          /locus_tag="DMACINML_00543"
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          /inference="similar to AA sequence:RefSeq:CAL35328.1"
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          /product="putative glycolate oxidase subunit D"
          /protein_id="Prokka:DMACINML_00543"
          /translation="MILPKNVSQSDFTA AVAKFEKALGKEWVFKTQEDLDLYRDAYSP
QWDDDDDEPIPSLALAPKNVEEVQAI VKIANEFKIPLFP ISTGKNLGYGSSAPQQRGQV
VVDLKR MNKIEVDDKRNFCIVEPGVSYFDLYEYVEKNNLNVFLDIPDPGWGSPLGNA
LDHGWGYSYGM YRDHFGSHCGMEVVLANGEILRTGMGALPKAKTFAENKYGYGPPYVDG
LFSQSNFGIVTKMGFWMPKPEHYMLLSIKMKKREDLIPAVEILNYLEDSFIVGW PQY
FSPLNPPYGKPMNAELKGYLTSKNGLPMDKIQNYALKNKIPYWNIDVSVYGCKEVCY
ANLEYIKQRFKII EGVDISIVQEFSLPLNLEQKKQLKHKVTLGIPNMEIFWLSTRGEA
LEPSDGHVWFSP IIPRDGKELLKQCQEVY MELFREFG EESPITPF SHPRSWMYRAFCFM
LAFNNSRTDKAHNLKVRKMYRQMVQTAAEHGWGDYRAAPT FQDDVMGAYSYNHILRR
FNEQLKDCIDPNGILAPGRGGIWPKNLRDERFVNNKRDALRMKEGKEK"
gene      complement(32015..32392)
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CDS       complement(32015..32392)
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          /inference="ab initio prediction:Prodigal:2.6"
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          /transl_table=11
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gene complement(32564..34876)
/gene="gyrB"
/locus_tag="DMACINML_00545"

CDS complement(32564..34876)
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/locus_tag="DMACINML_00545"
/EC_number="5.99.1.3"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34184.1"
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/product="DNA gyrase subunit B"
/protein_id="Prokka:DMACINML_00545"
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KTGTTIEFWPDDTIFEVTEFDYDILAKRFRELAYLNPKITINFKDNRVGKSESFHFEG
GISQFVSDLNKKEALTKPIFFGVDEEDVNVEVALLYNDTYSENLLSFVNNIKTPDGGT
HEAGFRMGLTRVISNYIEANASAREKDSKITGDDVREGLIAIVSVKVPPEQFEGQTKG
KLGSSYVRPIVSKASFEYLSKYFEENPIEAKAIMNKALMAARGREAACKARELTRKKE
SLSVGTLPKGLADCQSKDPSESEIYLVEGDSAGGSAKQGRERSFQAILPLRGKILNVE
KARLDKILKSEIQNMITAFGCGIGEDFDLSKLRYHKIIMTDADVDGSHIQTLLLTFF
FRFMNELVANGHIYLAQPPLYRYKKGQKKEIYKDEKALNDYLIETGIESSNYEGIG
LNDLKDFLKIVAAYRSVLNELKKRFNVISVIRYLIENPDFIKENNEELFKIVKAFLEK
EGHNILNHYINENEIRIYVQTENGLEELIINDDLFSHPLYEEANYIFNKIKDRDLSFE
KDILDILDEVEKNAKKGAYIQRYKGLGEMNPEQLWETTMDPSVRRLLKITIEDAQSAN
DTFNLFMGDEVEPRRDYIQTHAKDVKHLDV"

gene complement(34914..35981)
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CDS complement(34914..35981)
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/inference="similar to AA sequence:RefSeq:ADT65433.1"
/codon_start=1
/transl_table=11
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/translation="MKLSINKNTLESAVLLCNAYVEKKDSSITSHLLFEADEDKLI
RASDFEIGINYKIRKIRVESGGFATANAKSIADVIKSLNNEEVVLETIDNFLFIRQKS
TKYKLPFMNHEDFPNFPKTEGKNQFDIDSSDLRSRLKILPSIDTNNPKYSLNGAFLD
IKTDRINFGVGTDRRLAVYTLEKANNQEFHISIPKKAIMEMQKLFYEKIEIYYDENML
IAKNDNFEEFTKLINDKFPDYEKVIPKTFKQELKFSTEDFIDSLKKISVVTTEKMKLHF
NKDKIIFEGISLDNMEAKTELEIETGVSEEFNLNIKIKYLLDFLTSIEEEQFTLSVNE
PNLAFVVNSQGLSMVIMPIL"

gene complement(36146..37468)
/gene="dnaA"

CDS complement(36146..37468)
/gene="dnaA"
/locus_tag="DMACINML_00547"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34182.1"
/codon_start=1
/transl_table=11

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/protein_id="Prokka:DMACINML_00547"
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ELLAKFIQTKYGKKISHFYEVQSGNKASVLIQAQSQKHSKSTKIDIAHIKAQSTILN
PSFTFESFVVGDSNKYAYGACKAISQKDKLGKLYNPIFIYGPSTGLGKTHLLQAVGNAS
LEMGKKVIYATSENFINDFTSNLKNGLDKFHEKYRNCVLLIDDVQFLGKTDKIQEE
FFFIFNEIKNNDGQIIMTSDNPPNMLKGITERLKSRAHGIIADITPPQLDTKIAIIR
KKCEFNDINLSNDIINYIATSLGDNIREIEGIIISLNAYANILGQEITLELAKSVMKD
HIKEKKENISIEDILSLICKEFNKPSDVKSSKKTQNVVTARRIAIYLARELTSLTFS
QLANFFVMKDHTAISHSVKIKELMEDDEQIKTKIEELKNKILTQSQS"
gene 37570..38046
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CDS 37570..38046
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     /inference="similar to AA sequence:RefSeq:ADN91856.1"
     /codon_start=1
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     /product="Holliday junction resolvase"
     /protein_id="Prokka:DMACINML_00548"
     /translation="MKILGIDPGSRNCGYAIIESNKGKNTLIEAGLIKIQPSTLQYQI
TELCEGLDLIFKNHSFDEVAIEDIFFAYNPKTVLKLAQFRGALSILKILQIHGDFAEYT
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gene 38240..40801
      /locus_tag="DMACINML_00549"
CDS 38240..40801
     /locus_tag="DMACINML_00549"
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     /inference="similar to AA sequence:RefSeq:AJK83707.1"
     /codon_start=1
     /transl_table=11
     /product="flagellar hook protein FlgE"
     /protein_id="Prokka:DMACINML_00549"
     /translation="MMRSLWSGVSLQAHQVAMDVEGNNISNVNTNGFKYSRADFGTM
FSQTVKIATPTDGRGGQNPLQIGLGVSVSSTTRIHSQGSVQTTNSNTDVAINGDGGF
MVSDDGGLTNYLTRDGAFKLDAYGNFVNNSGFIVQGWNIWDDQTTIDSSRSPQNIFFID
PGMHIPAAKSTEVAIKANLNSGLNIGTSSRNLYALDSVHGYNNKTQRAEDENDTGTQTQ
FYTTSKNSVEVTEKGVDAAGSLFNASGTGLNLRDGGQIIVSYADAKYSTNKVGFASAFDA
NLQANQTAAFWGSADQVRVLDITLNGVKIQNAEIQNIDDAIAYINTFTAPTDRDGTG
VRAVKSADGSGIEFVNDNSDGTDDNMKNINLIVSDANTAGELWNATWNAGTSSFTFDQ
NNINKNNTSLWTADTMAPNPPNGNVTLTGTDREVITAHKYIYSSNPVDIGPMTNPDG
GPAFQPGANETTRPTDPASAAYWDAMNGGLLNTNARTFRTTEDLRELLQRDARYGVDY
DGSGSFAAADVNQAVKVVVTANGNFAISNAKEDSSVPPNAINGVADATTTTTPKAMSFN
ITAYSNKAGTVSTNDAFTAIFKAWDGPLTVGGSIKESQLKLSAFSAGLEIFDSLGSK
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TPRTINFSPNNGAAPNQKIKLSFGTSGSNDGLVSSNSASTLTGQATDGYASGNLKPDA
IRVDEKGNLLGEFTNGKTFAVAKIAMASVANNSGLEEIGGNLFKVTANSNIVVGEAG
TGGRGEMKTSALEMSNVDLSRALTELIIRGYQANSKTIISTSDQMLQTLIQLKQ"
gene 41227..42498
      /gene="metB"
      /locus_tag="DMACINML_00550"
CDS 41227..42498

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/EC_number="2.5.1.49"
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/inference="similar to AA sequence:RefSeq:CAL35821.1"
/codon_start=1
/transl_table=11
/product="putative O-acetylhomoserine (thiol)-lyase"
/protein_id="Prokka:DMACINML_00550"
/translation="MNFTKETLALHGAYNFDTQRSISVPIYQNTAYNFENLDQAAARF
NLQELGNIYSRIGNPSTDVLGQRLANVEGGAFGIPVSSGMAACFYALVNASSGDNVA
YSNKIYGGTQTLISHTLKNFGIEAREFDIDDLDSLEKVIDQNTKAIFFESLSNPQIAI
ADIEKITQIAKKHKIATICDNTVATPFLLPFKYGVDIIVHSLSKYVSGQSALGGAL
IERKDLNDLLKNNDRYKAFNTPDPSYHGLNLTLDLPFISIRIITWLRDLGASLAPQ
NAWLLLQGLETLAVRIEKHSQNAEKVANFLNSHPDIKGVNYPTLTSNAYHNLFKKYFD
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gene 42510..43544
/locus_tag="DMACINML_00551"
CDS 42510..43544
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ABS44543.1"
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/transl_table=11
/product="inner membrane protein YeeE"
/protein_id="Prokka:DMACINML_00551"
/translation="MLSGIIVGLLLGFVLQRGRFCVVGAYRDVFLSKKFTIFIALFIV
VALQSIGVWALHSLGYISIKPQEFYWLSTIIGGIIFGFGMVIAGGCATGTWYRAGEGL
IGSIAALLFYAFSASAVKYGVLLPLQDNLNTFKISDGTIFYQSLGISPWILVVLVLSLVV
GFFVIKELRKPRLLKVARLKPRKQGISHILFEKSWHPFVTAVLVALIATLAWPLSSLSG
RNYGLGITTPSANLVQYLSTGDIQFVDWGVFLVLGIALGSFLGAKLSGEFRFRLLPDKK
TLAYASIGGILMGVGASLAGGCTIGNGLVETSLFSYKGWVATVFFLIGAYIATFYTII
LPTRKATQKI"
gene 43554..43775
/locus_tag="DMACINML_00552"
CDS 43554..43775
/locus_tag="DMACINML_00552"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ABS43826.1"
/note="conserved domain protein"
/codon_start=1
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/product="hypothetical protein"
/protein_id="Prokka:DMACINML_00552"
/translation="MVTLDTRGKVCPPFLVEAKNLVQTLKSGEELIILFDCTQATETI
PQWAAEEGHEIVDFELLGDAEWRIKLIKK"
gene 43786..44667
/gene="metaA"
/locus_tag="DMACINML_00553"
CDS 43786..44667
/gene="metaA"
/locus_tag="DMACINML_00553"
/inference="ab initio prediction:Prodigal:2.6"

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/inference="similar to AA sequence:RefSeq:AVL46551.1"
/codon_start=1
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/protein_id="Prokka:DMACINML_00553"
/translation="MPLIIPENIPAYELLKEHAFIMGSRRRAKHQDIRPQEILIIINLMP
KKIETENQILSLLANSPLQVNITLLATTSYVGKNTPFTHLEKFYKGLEEVKKRKFDDGA
IVTGAPVEQMDFEKVAYWEELLEIFDFLQQNVTSYICWGAMAALKHFYGVDKIALD
KKIFGIYKHDKVSPDLLLTLNDEKVLMPHSRHSSMDEEQISALQKQGLKVLRLNKKI
GSALLRDEKNIFILGHLEYFKDTLHQEYVRDNFIQKAKNYYDKKGNIKYNWRSNANTI
FANWLNVDVYQSTPFVL"
gene complement(44672..45271)
/locus_tag="DMACINML_00554"
CDS complement(44672..45271)
/locus_tag="DMACINML_00554"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35819.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic protein"
/protein_id="Prokka:DMACINML_00554"
/translation="MKKSIVIIGGSVAGLSAALFFASAKNDELDFDITIFDDDKADLK
AAAIYNVPFFPKGAKADEIYTHIKAQIASMLEVKYIDSKVVSISGEKGDFTVSDEQGL
GIKADYIIVATGATKSEIKGLEDFVIPHELMPPKPNKFCFKHHGRQMIKEGIYAAGLAS
GVTTMVACAMGSANEAACAILSDIKGVVSVYHDTPTTRN"
sig_peptide complement(45089..45271)
/locus_tag="DMACINML_00554"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 61"
gene 45430..45813
/locus_tag="DMACINML_00555"
CDS 45430..45813
/locus_tag="DMACINML_00555"
/EC_number="3.5.4.16"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35818.1"
/codon_start=1
/transl_table=11
/product="putative GTP cyclohydrolase I"
/protein_id="Prokka:DMACINML_00555"
/translation="MRYGEKEIKEFDVENMEIWPNDKNDYIIKITLPEFMCCPRSG
YPDFATIYLEYIPDQFVVELKAIKLYINTFMHRNVSHEASINEIYNTLKDCLKPKWIK
VVGDFNPRGNVHTVIECRSDMVVPE"
gene 45810..46607
/gene="hindIIIM"
/locus_tag="DMACINML_00556"
CDS 45810..46607
/gene="hindIIIM"
/locus_tag="DMACINML_00556"
/EC_number="2.1.1.72"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CKH09182.1"
/codon_start=1
/transl_table=11

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/protein_id="Prokka:DMACINML_00556"
/translation="MKFNLDLNNWKS CDINTDSLWLISSRDKSGKHRNIYHG NFI PQ
IPNQLIRRYTKKDDLIIDPFLGSGTTLYECEKLNRCIGLDINESILEFVLDFNGINF
DNKRYFLGNC DNTDAKKVDEFLENALNKLESKKAQFIFLHPPYMDIVKFSEKKEDLSQ
ISDLKKFKDKFLFTCQNMLKYLEKSR YFALVIADLYRNSEIVPLGFELMNLIKQNFKV
KLGIIIVKNI EGNRGKLGINAIWRYRALRS DYYIFKHEYIFVFKKEF"
gene 46608..47687
      /locus_tag="DMACINML_00557"
CDS 46608..47687
     /locus_tag="DMACINML_00557"
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     /note="DUF262 domain-containing protein"
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     /translation="MDLEIQMEDKRNLLRADRLDMSFGEIISNYEEDNLI IQPSYQRS
FRWNDYQKTRFIESVLLGIPPIFVAEDKDN GKWELIDGLQRVSTILSFFGLLKENG
KIDDRLNKFKLLEGEILTELKDKNIDSFPLK LQLTIKRFVCRVEILRWDTNSEIKYQL
FSRLNTGGEALKEQEIRNCIYRGDLNDL INNLAENKDFKDVIGATERQEKEYLSELV
LRFMAFYRHN DLIFKTSGSIQGF LSDFMRSNMEKNQDDFYQVKQVFLNVISYLNENK
LSDLFRDNRARQFNANHYDTIMYILAKNLNRFQDSQEF RQIIQNL LKNKEYIDKSGSS
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gene 47668..48303
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CDS 47668..48303
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IKHFCRIQEKL LKQKFETKVNKSNLTFEVLENLCLKFDISSVKLKDYKDILDQLVN
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gene 48306..48980
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CDS 48306..48980
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GIQLDTDEKGNFYKMLCCKCNMNTVHRKLSLEILEDTKTRSGISVSLARRIKNCLR
NEEAIYLREMPNELEIDHKFPQIRWKTDES KNDGSMSEEEIKNKFILLTRSNLLKS
RYCEKCFKNGTRGYFPGIKFWYKGNEKWQGEDDNDEKCEGCFWYDPYKWREELNRIS
QIQINL"
gene 48977..49984

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/gene="fokIM_2"
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 CDS 48977..49984
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 /inference="similar to AA sequence:RefSeq:CKH09081.1"
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 methyltransferase"
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 GKLFKTKVKQVIANDKEFYFILAKNYIQNSLLTRANELIDILNYQIPLIKNKIYKY
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 ASVYGAF LKHLKKSQAQKMMVLFPAEFQQSHNKHQVFNKNANELIREIKGDILYLDPPY
 NNREYGANYHVLNTIAIYDDFIPQGKTGLRAYEKSAWCKKNLVFNALEDLIKNNANFKF
 IFLSYNDEGLLSLEQIKQIFKQYKGYDLKNQIYKRFKADSSRICKQDQTIIEYLHILEK
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 gene 50063..50707
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 CDS 50063..50707
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35815.1"
 /codon_start=1
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 KHNKTGAVFNGDLSSSIPILGLRMGYRFNDLHRLYAAYNYSDEFSDIIRTPNLRIEGD
 FNTHKFLGDFTPEIFKRVRAVAGGYLGYAKTSLDLKTSLLSLSQDFDGFVYGAKIG
 AIFELGTSNELEVGFKAQIEYNTRNYQETIGSNFYDPRQNTNYGLYLGITYKF"
 sig_peptide 50063..50128
 /locus_tag="DMACINML_00561"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 22"
 gene complement(50731..51360)
 /locus_tag="DMACINML_00562"
 CDS complement(50731..51360)
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 QKLTRDNSKSAGSFRDTRTYINLVVDKNTDSQICEKLLDDVERYFIGGG"
 gene 51697..53232

CDS /locus_tag="DMACINML_00563"
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 KAGARTINIPDTVGYTLPSEFANIILFNKVPNIDKAVISVHCHNDLGMATGNSLSA
 ILQGARQIECTMNGLGERAGNCALEEVMAIKTRSDYLKGFYTDIKCENISKTSKLV
 AITNESIPSHKAIVGSNAFSSGSIHQDGV LKNRQTYEIISSPSSIGLHENRMLMTARS
 GRAMIKTCLDNLGYDEKTYNLDEVYESFLRLADKKGQVYDYDLEALMFLSYENDEENE
 LVLEKLSVISGTIPTACVCVRIKEELKTEACTGNGPIEAVFNCISRITGLNPVLKAYS
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 KAV"

gene 53229..54305
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CDS 53229..54305
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 /locus_tag="DMACINML_00564"
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 /inference="similar to AA sequence:RefSeq:CAL35812.1"
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gene 54298..55704
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 IVLDVSQIQPQISYGTNPSQVIAINERIPKVSDFSNPSDQKSLLDALDYVNLEQDQSL
 EGVKIDIVFIGSCTNGRLEDLKIAADILKGRKIHKDVKALIVPGSMQVRKEAENLGLD
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gene 55706..56308
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gene complement(57045..57120)
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tRNA complement(57045..57120)
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 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Val(gac)"

gene complement(57122..57197)
 /locus_tag="DMACINML_00569"

tRNA complement(57122..57197)
 /locus_tag="DMACINML_00569"
 /product="tRNA-Ala"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Ala(ggc)"

gene complement(57331..58296)
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CDS complement(57331..58296)
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 KEFFHSYFNKPFCDLGDTSKQLSQWKKNFLSKKEEQMKYKFIISLEGNDVASNLKWAMN
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gene complement(58407..58494)
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tRNA complement(58407..58494)
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 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Ser(gga)"

gene 58599..58675
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tRNA 58599..58675
 /locus_tag="DMACINML_00572"
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 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Met(cat)"

gene complement(59116..59220)
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CDS complement(59116..59220)
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gene complement(59217..60287)
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CDS complement(59217..60287)
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CDS      complement(60307..60843)
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gene      61698..63728
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ALGMISNKFEEHGLKAERKWRPVEKRKVEIGEFDIEWIHITHSIIDASALAIKTKA
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CDS 65107..65682
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gene 65679..66293
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gene 66296..66577
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gene 66579..67409
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 /locus_tag="DMACINML_00583"

CDS 66579..67409
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 AYAQLMGKEEKYVILRLASGEMRQVLAECMASIGEVGNEEWANVTIGKAGRNRHRGIR
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gene 67411..67692
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gene 69226..69411

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CDS 72038..72394
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     /inference="similar to AA sequence:RefSeq:CAL35785.1"
     /codon_start=1
     /transl_table=11
     /product="50S ribosomal protein L18"
     /protein_id="Prokka:DMACINML_00596"
     /translation="MRANVLKRKLILRIKRRIRAKISGCESFPRISVFKSNRTLYI
QAIDDKAVTLAAVDGRKLGVKANKEGAKKIAAEFAKVLKAKQIEQAVFDRNGVYVYH
VIAALAESLRENGIRL"
gene 72406..72849
      /gene="rpsE"
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CDS 72406..72849
     /gene="rpsE"
     /locus_tag="DMACINML_00597"
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     /inference="similar to AA sequence:RefSeq:CAL35784.1"
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     /transl_table=11
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     /protein_id="Prokka:DMACINML_00597"
     /translation="MEKYNREEFEEVIVDIGRVTKVVKGRRFRFTALVIVGNRKGVL
GVGYGKAKEVPDAIRKAVDDAFKNIVEVKTKGSTIAHDVEVKYNASRILLKPASEGTG
VIAGGSTRPIVELAGIKDILTKSLGNSNANVVRATIKALTMLKG"
gene 72854..73246
      /gene="rp10"
      /locus_tag="DMACINML_00598"
CDS 72854..73246
     /gene="rp10"
     /locus_tag="DMACINML_00598"
     /inference="ab initio prediction:Prodigal:2.6"
     /inference="similar to AA sequence:RefSeq:CAL35783.1"
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     /transl_table=11
     /product="50S ribosomal protein L15"
     /protein_id="Prokka:DMACINML_00598"
     /translation="MNLTKAAGSTHKTKRIGRGQSGMGKTATKGGKQTARKGYNEK
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gene 73246..74511
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CDS 73246..74511
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/inference="similar to AA sequence:RefSeq:CAL35782.1"
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/protein_id="Prokka:DMACINML_00599"
/translation="MNRALTNKILITLAFLFAYRVLAYVVPVPGVNADVIAEFFNDNQN
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WIGEQTQRGIGNGISLIIFAGIVSGIPRAISGTVGQINSGEMNFLTAFVILVLILIT
IGVIIYVELGERRIPISYSRKVVMQNQNKRIMNYIPIKINLSGVIPPIFASAILMFPT
TILQTSTNPYLQAINDFLNPNGYLFHVLTFLFVIFFAFYFASIVFNAKDIAENLKKQG
GFIPGIRPGEGTANYLNEVASRLTSGSIYLGVLVATLPWVLVKFMGVPFNFGGTSVLI
VVQVALDTRKIEAQIYMNKYQTLNAIGL"

gene complement(74568..75827)
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CDS complement(74568..75827)
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/inference="similar to AA sequence:RefSeq:CAL35781.1"
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/transl_table=11
/product="putative efflux protein"
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YSRGGFNRRENALS LQGFFCAVGG AIFIS IAGFVSSYSWRYPFLVYGLGILITLVAMI
YLFEPKFKFYNHTKIEEKTYWKFPIYFIGFFIMVVYISPTQLPYYIEEHLGLDP
KFIGISMSISALCYGIFLSYKYIMRFLSIKTIYVATLFIVGCSFLILFLIDDFIAVL
FALALLMGGGIMLVNNTAYLFSICPENARARAYGILASCIFLGQFLSPIISQPIVRQ
LGLVDAFLIWA I LNFVVCIVFLFLKQR"

gene 76070..78172
/gene="topA"

CDS 76070..78172
/gene="topA"
/locus_tag="DMACINML_00601"
/EC_number="5.99.1.2"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35780.1"
/codon_start=1
/transl_table=11
/product="DNA topoisomerase I"
/protein_id="Prokka:DMACINML_00601"
/translation="MKKNLIIVESPAKAKTIGNFLGKEYEVIASKGHIRDLPKSSFGI
KIENDEFIPEYRITSDHSALVKELKEKAKGAKEIYLATDEDREGEAIAYHIAKAIGKD
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PPSRYSEAGLVKKLESLGIGRPSTYAPTISILTSRDYVKIDKKQLIPSEVAFSVTEVL
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gene      78175..79011
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CDS       78175..79011
          /gene="bioB"
          /locus_tag="DMACINML_00602"
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          /inference="similar to AA sequence:RefSeq:CAL35779.1"
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          /transl_table=11
          /product="putative biotin synthase"
          /protein_id="Prokka:DMACINML_00602"
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VLEAKIAKKNEALGFCLVTAGLGLDDEKLEYVCKAAHAVQKEVPNLLLIACNGMASVE
QLKELKKAGIFSYNHNLEASKEFFPQICTTHTWESRFQTNLNAKEAGLMLCCGGIYGM
GESEEDRISLRKSLQELQPFSTPINFFIANENLKLQVPKLSADEALKIISDTKEALPD
TVVMVAGGREVVLQERQYEIFKAGAGAIIVIGDYLTTKGEEPSRDIVKLKEMGFTFASE
CH"
gene      78992..80167
          /locus_tag="DMACINML_00603"
CDS       78992..80167
          /locus_tag="DMACINML_00603"
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          /inference="similar to AA sequence:RefSeq:CAL35778.1"
          /codon_start=1
          /transl_table=11
          /product="putative transmembrane transport protein"
          /protein_id="Prokka:DMACINML_00603"
          /translation="MHPSVIDSQGLIDLQILIVIALCLLFSPHIAKILRLPISATEII
LGALIAYFGFIGKSENFTILANVGFYLMFIAGMEVNLRAFFNMDKEVAKKSFFYIIL
LYSFSSAIVWIFELSFVFLIIPVMSVGLLSLLYKDFGKECYWLNTAMIVATLAEVVS
IVLLTIAGAFLLREGTNIIDVVQSILYLNIFLGLCLLSFKILGVLFWWYPQLKVVLMPW
EDKNEKDIRFCMAIFILIIIVAMIITKLEIVLGSFIAGSFIATFFDHKKDLEHKLSSF
HGFLIPIFFIHIGTTFDLKMILEYEVLDAILLMFVMVGLRILCASVFWKKIGFQNM
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gene      80297..81565
          /locus_tag="DMACINML_00604"
CDS       80297..81565
          /locus_tag="DMACINML_00604"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:ADN91805.1"
          /codon_start=1
          /transl_table=11

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/product="Citrate synthase"
/protein_id="Prokka:DMACINML_00604"
/translation="MSNSVTVTDNRNGKSYEFPIYDGTTPGSVVDMGSFYKQTGMFSY
DEGLTSTATCKSKITYIDGEEGVLHMRGYPIEWLAENKFLDQVHLLLYKELPSSERL
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EMAARVVAKIPTIVAAARYKNGFPMAYPNLDRGFTENFLYMLRTPYDQVHVELKPIEV
KALDQVFMHLDHEQNASTSTVRAVGSTHAHPYACISAGIGALWGHAGGANEGVIRM
LEEIATVDRVDEFIKRAKDKNDPFRLMGFGHRVYKNFDPRAKVLKCLRDLIDELGID
TNLIKVATRIEEIALQDDYFVQRNLYPNVDFHSLILKALGIPNEMFATLQVIGRTPG
WIAQWIEQKEQETLKIVRPRQLYLGETSKI"
gene      81639..82418
          /gene="cysQ"
          /locus_tag="DMACINML_00605"
CDS       81639..82418
          /gene="cysQ"
          /locus_tag="DMACINML_00605"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:ADN91804.1"
          /codon_start=1
          /transl_table=11
          /product="CysQ protein"
          /protein_id="Prokka:DMACINML_00605"
          /translation="MFKLDNLLKTAIDASNEASKAILKERKNLQIWKQDKTPLTSAD
LASNEILNDILGKTDIKILSEGLLNQEESKNLQSYWLIDPLDGTSGFLKGSDEFCEIM
ISLIYEARPVLALIKNPSKGDIFYAHQNTRVYKNDKILDTNEQDFINNQSKALLSVNH
LSKEDENFAKKYHLEPINIGSGLKFCAILGKAGIYKRFEKLNQSWDISAGDFLVNQNG
GFMGTFSKEMILYSPLNYKCEPFICVSQKSFLLNIYIHKNSI"
gene      82443..83204
          /locus_tag="DMACINML_00606"
CDS       82443..83204
          /locus_tag="DMACINML_00606"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL35775.1"
          /codon_start=1
          /transl_table=11
          /product="putative periplasmic protein"
          /protein_id="Prokka:DMACINML_00606"
          /translation="MKIFCILLIGILLNSSLFANNFSQKKIILEQVESFEIIDLQQN
VAKQNLQKQKGFIDSSSLVGKESIRKDNQVDFAIQVMSFRQNFQYTLQDGFQINAKQFS
TLFSKNLVDNLKLNFNVAANGVYQDSRTLARFSPKSKLLNVSPFLKKEKDKSQIYA
KFTDYLVINLDDFYVNITNYFVAITKNAVANINFQVSTSNQKILTSKNVRLNLFALH
AQDPRINYQELVNQMPNMLAEVINKELGKLNLIQV"
sig_peptide 82443..82502
          /locus_tag="DMACINML_00606"
          /inference="ab initio prediction:SignalP:4.1"
          /note="predicted cleavage at residue 20"
gene      complement(83211..83384)
          /locus_tag="DMACINML_00607"
CDS       complement(83211..83384)
          /locus_tag="DMACINML_00607"
          /inference="ab initio prediction:Prodigal:2.6"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"

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/protein_id="Prokka:DMACINML_00607"
/translation="MQININLEEMTKWQITYELKRILSSLDPITAHEIAKELRQEFLS
IEELQDRIRQIND"
gene      complement(83498..84274)
          /gene="murB"
          /locus_tag="DMACINML_00608"
CDS       complement(83498..84274)
          /gene="murB"
          /locus_tag="DMACINML_00608"
          /EC_number="1.3.1.98"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL35772.1"
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          /transl_table=11
          /product="UDP-N-acetylenolpyruvoylglucosamine reductase"
          /protein_id="Prokka:DMACINML_00608"
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PKNIGILSDNFNFIIEIQNKDFLHLRIGCKTKASQMYRFSKENNLYGFEYLSKIPGT
LGGLLKMNAGLKDECISQNLVKIATSKGEILRENIDFSYRFCPLNMPFFWAEFKLGFG
FDKIKDENLKNARNNQPASGASFGSIFKNPKGDFAGRLIEAVGLKGFSGKGMALSDKHA
NFLINKKNASFEDAIFLIELAKKKVFEFNGINLEEEVIV"
gene      complement(84271..84540)
          /gene="fliQ"
          /locus_tag="DMACINML_00609"
CDS       complement(84271..84540)
          /gene="fliQ"
          /locus_tag="DMACINML_00609"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL35771.1"
          /codon_start=1
          /transl_table=11
          /product="flagellar biosynthetic protein"
          /protein_id="Prokka:DMACINML_00609"
          /translation="MDESTLVALGVQTFKITLLSLPMLLAGLIAGLIISIFQATTQI
NEMTSLFVPKIILVVIVIIIFLMPWMTTMMIDFTENILNQIPTFIK"
gene      complement(84552..85415)
          /locus_tag="DMACINML_00610"
CDS       complement(84552..85415)
          /locus_tag="DMACINML_00610"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL35770.1"
          /note="conserved hypothetical protein Cj1674"
          /codon_start=1
          /transl_table=11
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          /protein_id="Prokka:DMACINML_00610"
          /translation="MKKTITIAHSPDADDIFMYMAIKLGWIGNDFDYKNTALDIQTLN
DLALRNEFDATAISFGLYPLIAQEYALLRTAVSFGEGYGPKLIKKQNTHLKRNFKIAL
SGANTTNALIFRMKYPEARIIYKNFLEIENAVLSGEVDAGVLIHESILEFDSSLCVEA
EIWDIWLELAQENLPLPLGGMALRRSLPLSDAIKIERDLTNAVKIADSNRRILAPMLM
ERNLIRVDEKKLDTYLNLYANKNSICMNEMQFKAVDVLFKLGVDYKFDYKIIHAKDYL
IPSEYEEFRNS"
gene      85525..86556
          /gene="recA"

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CDS /locus_tag="DMACINML_00611"
 85525..86556
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 /inference="similar to AA sequence:RefSeq:CAL35769.1"
 /codon_start=1
 /transl_table=11
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 /protein_id="Prokka:DMACINML_00611"
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 QHVGLQARLMSQALRKL TGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFY
 ASVRLDVRKVATLKQNEEPIGNRVKVKVKNVAPPFRQAEFDVMFGEGLSREGELID
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 GSEDEEGEE"

gene 86556..87800
 /gene="eno"

CDS 86556..87800
 /gene="eno"
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 /EC_number="4.2.1.11"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35768.1"
 /codon_start=1
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 /translation="MLVIEDVRAYEVLDSRGNPTVKAEVVLSDGSMGAAIVPSGASTG
 SKEALELRDNDERFGGKGVLKAVSNVNETIADEILGLDALNQAQLDDTLRELDGTNNY
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 FQEFMIMPFGFTSFKEALRSVCEIYAILKKELVNLGHSAAALGDEGGFAPNLANNTPEI
 DLLMTCIKKAGYENRVKIALDVASTEFFKEGKYHMEGKAFSSEDIERYVELCAKYPI
 CSIEDGLAENDFEGWIKLTEKLGNKIQLVGDDL FVTNEDILREGI IKKMANAVLIKPN
 QIGTITQTMRTVRLAQRNNYKCVMSHRSGESED AFIA DFAVALNTGQIKTGALARGER
 TAKYNRLLEIELESDEFLGEKL"

gene 87866..88069
 /locus_tag="DMACINML_00613"

CDS 87866..88069
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 /inference="similar to AA sequence:RefSeq:ADN91797.1"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_00613"
 /translation="MVFWAFLVIVGAIYFGNMLFGQYSLDTLLSLEATKEELNKKISF
 LKEQNAKAQKDYFELQGLYPNEN"

gene 88059..88721
 /gene="cgpA"

CDS 88059..88721
 /locus_tag="DMACINML_00614"

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/gene="cgpA"
/locus_tag="DMACINML_00614"
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/inference="similar to AA sequence:RefSeq:CAL35766.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic protein"
/protein_id="Prokka:DMACINML_00614"
/translation="MGTKILGIFLIFISLLNAEENPFKSEQNMSMIVPPDFQKEDIKF
NSNARVLKSVSFNYINLDGSEEVLNIDINKSIDWHDTYTLVRSKSPDPKVFVDSVTI
PERNDSKKESNNTASIEIPLQVDKIYDFISYAVYKNKIKLNTNDELISDFSIGNPSKI
VDFKSDLVNPTKNIRISNSLFKRIDFGSHKGYRRLVIYLDGNYNYNIQKDATGYMIN
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gene      88721..89560
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CDS      88721..89560
/locus_tag="DMACINML_00615"
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/inference="similar to AA sequence:RefSeq:CAL35765.1"
/codon_start=1
/transl_table=11
/product="putative ATP-dependent DNA ligase"
/protein_id="Prokka:DMACINML_00615"
/translation="MRIFIFLWCACFAFASDILLLSKISEQEIQNKNFNGYLMSEKLD
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SSLWRSVTYNVFDVPNACEEFKLTSC TLSNR LKVLEQYLQQNPNPYIKI IKQIPIK DQ
EHLKEFYKD IILNKGEGVIRKDLAPYEKGRSKNAFKLPYEDA ECKVIGYTEGKGKF
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IRD"
gene      89607..89684
/locus_tag="DMACINML_00616"
tRNA     89607..89684
/locus_tag="DMACINML_00616"
/product="tRNA-Pro"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Pro(tgg)"
gene      89709..89785
/locus_tag="DMACINML_00617"
tRNA     89709..89785
/locus_tag="DMACINML_00617"
/product="tRNA-His"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-His(gtg)"
gene      89790..89866
/locus_tag="DMACINML_00618"
tRNA     89790..89866
/locus_tag="DMACINML_00618"
/product="tRNA-Arg"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Arg(tcg)"
gene      89881..89957
/locus_tag="DMACINML_00619"
tRNA     89881..89957

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/locus_tag="DMACINML_00619"
 /product="tRNA-Arg"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Arg(tct)"
 gene 89963..90047
 /locus_tag="DMACINML_00620"
 tRNA 89963..90047
 /locus_tag="DMACINML_00620"
 /product="tRNA-Leu"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Leu(tag)"
 gene 90248..91003
 /gene="proB"
 /locus_tag="DMACINML_00621"
 CDS 90248..91003
 /gene="proB"
 /locus_tag="DMACINML_00621"
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 /protein_id="Prokka:DMACINML_00621"
 /translation="MQRIVKVGSHVISDENLLNLKRFENLVAFLAKLMQKYEVILVT
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 LSDIDGFYDKNPSEFSDAKRLEKVEFIKEEWLNVSVKTGSEHGTGGIVTKLKAACKFL
 ENDKKMFLASGFDLSVAKAFLLNKQIGGTLFE"
 gene 91083..91286
 /locus_tag="DMACINML_00622"
 CDS 91083..91286
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 /inference="ab initio prediction:Prodigal:2.6"
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 /transl_table=11
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 DEYACWALPNVRVNGELVCAEYY"
 sig_peptide 91083..91145
 /locus_tag="DMACINML_00622"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 21"
 gene 91286..92323
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 CDS 91286..92323
 /locus_tag="DMACINML_00623"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:EAQ72322.1"
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 /transl_table=11
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NRNFLNADRDKNGRIENNEYLSLKNSVEDVAKNQDLSKNFGAVVLRMAQSTTGVENT
ISDKSLSIEALMDESISDRNFDGIITRLEYSKGGTDMQGYTNWAIDALNDILDDSD
KAKKIHLVVDPTSEIWHSYAGKTLNEVKAYYDNPFRATSGTSASGFLNIVIEEPRILP
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gene 92455..93375
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CDS  /locus_tag="DMACINML_00624"
     92455..93375
      /gene="fmt"
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      /EC_number="2.1.2.9"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CAL34269.1"
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KNVNEVFEILASLAAKLILSTLLNYEKLLPKKQDESLATHCKKIKKEDGLVSLDNARE
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gene 93338..93991
      /gene="birA"
CDS  /locus_tag="DMACINML_00625"
     93338..93991
      /gene="birA"
      /locus_tag="DMACINML_00625"
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      /product="putative biotin--[acetyl-CoA-carboxylase]
synthetase"
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GVGSRENWQSSGNLHLSFCIKESDLPSDLPLASVSIYFAYLLKEILQEKGSRWLK
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gene 93988..94773
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CDS  /locus_tag="DMACINML_00626"
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      /locus_tag="DMACINML_00626"
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ATTGLGFNRNNYEYNIYHVFIGRKKLSDIILKTELPQLHLAPSNIGLVIEQELAKGE
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AMVLNTIKIIKKTINPKLKVRGFLPTMYSSQNNLSKDVEDLKQNFKKQLFTINGNED
DFIVIPRNVKLAESPSFGKPIILYDIKSPGSLAYQNLAYSILG"
gene 94778..95614
/locus_tag="DMACINML_00627"
CDS 94778..95614
/locus_tag="DMACINML_00627"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34272.1"
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QPRKTFDEVALNELANSIKEHGLIQPIIVLKKNDSFILVAGERRLRATQILGEENILA
FVSDSDESKLRELALIENIQRENLPNIELANSYKDLIEVYNITQENLAELIHKSRQI
TNTLRLNLDSTQELIASGKISQGHAKVLVGLDKEDKVLVDSILGQKLSVRDTERL
VQVKVKNKIEDEEFENSMQNLKQILNKIGFMCKNNKELIIRLDNIDKIKKLTEILN
KI"
gene 95673..96098
/locus_tag="DMACINML_00628"
CDS 95673..96098
/locus_tag="DMACINML_00628"
/EC_number="3.6.3.14"
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/inference="similar to AA sequence:RefSeq:CAL34273.1"
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RKMANFYTELISQKKELDHLSAHLPLDKALQNNIKQH"
gene 96110..96622
/locus_tag="DMACINML_00629"
CDS 96110..96622
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/EC_number="3.6.3.14"
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IIDIMMKVS"
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 /locus_tag="DMACINML_00630"
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 /locus_tag="DMACINML_00630"
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 /inference="similar to AA sequence:RefSeq:CAL34275.1"
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 NQIQKEKKLEFVISLIEKASPSFNNFLKLLAENSRLSCIPQIAKELERQKSFKENIFL
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 LQNMSEYILKII"
 gene 97156..98661
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 /locus_tag="DMACINML_00631"
 CDS 97156..98661
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 /locus_tag="DMACINML_00631"
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 LIGRVNALGEPIDAKGVINSNEFRFVEEKAKGIMARKSVHEPLHTGIKAI DALVPIG
 RGQRELIIGDRQTGKTTVAVDTIISQKQGVVCIYVAIGQKQSTVAQVVKRLEE HGM
 DYTIVVNAGASDPAALQYLAPYTGVTMGEFFRDNAKHALIVYDDL SKHAVAYREMSLI
 LRRPPGREAYPGDV FYLHSRLLERASKLNDELGAGSLTALPIIETQAGDVSAYIPTNV
 ISITDGQIFLETDLFNSGIRPAINVGLSVSRVGGAAQIKATKQVSGTLRLDLAQYREL
 QAF AQFASDLDEASRKQLERGERMV ELLKQPPYSPLSVEKQVVLIFAGTKGYLDDVAV
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 gene 98671..99555
 /gene="atpG"
 /locus_tag="DMACINML_00632"
 CDS 98671..99555
 /gene="atpG"
 /locus_tag="DMACINML_00632"
 /EC_number="3.6.3.14"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34277.1"
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YAQKIDEILSEISFQVNVKIVHNEEDSRFVL FHKKNQIKNVDLIFITADKGLCGGFNIK
 TLKAVSELLKEYEKNINVRLRAIGKTGIEYFNFQKIELLEKYLGSSSPDYDKACSV
 IQAAVDDYLNIGITDEVVLVHNGYKNMITQELKISHLIPVEPKQIEGNSNSLLELEPED
 TDLLGDLMKTYFEYNNMYALIDSLAAEHSARMQAMDNATNNAKARVKQLNLAYNKARQ
 ESITTELIEIISGVESMK"

gene 99581..100978
 /gene="atpD"
 /locus_tag="DMACINML_00633"

CDS 99581..100978
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 /locus_tag="DMACINML_00633"
 /EC_number="3.6.3.14"
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 /inference="similar to AA sequence:RefSeq:ABS43225.1"
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 /product="ATP synthase F1, beta subunit"
 /protein_id="Prokka:DMACINML_00633"
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 VAAHLGDNVRRTIAMDMTDGLVRGLKAEALGAPISVPVGEKVLGRIFNVTGDLIDEGE
 EVAFDKKWAIHRDPPAFEDQSTKSEIFETGIKVVDLLAPYAKGGKVLFGGAGVGKTV
 IIMELIHNVAFKHSGYSVFAGVGERTREGNDLYNEMKESNVLDKVALCYQMNEPPGA
 RNRIALTGLTMAEYFRDEMGLDVLMFIDNIFRFSQSGSEMSALLGRIPSAVGYQPTLA
 SEMGKFQERITSTKKSITSVQAVYVPADDLTDPPATVFAHLDTTLNRSIAEKGI
 YPAVDPLDSTSRMLDPNIIIGEEHYKVARGVQSVLQKYKDLQDIIAILGMDELSEEDKL
 IVERARKIEKFLSQPFVFAEVFTGSPGKYISLEETIAGFKGILEGKYDHLPENAFYMW
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gene 100982..101371
 /gene="atpC"
 /locus_tag="DMACINML_00634"

CDS 100982..101371
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 /locus_tag="DMACINML_00634"
 /EC_number="3.6.3.14"
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 /inference="similar to AA sequence:RefSeq:CAL34279.1"
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 /protein_id="Prokka:DMACINML_00634"
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 SLKSGVIDIEKADLNHELIAIDAGHAKVDEDKISVLAKGAVWISGSSESEIEKNLESA
 KELIKSMSSDNTALAATFSKLDNAKVR"

gene 101372..101926
 /gene="exbB3"
 /locus_tag="DMACINML_00635"

CDS 101372..101926
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 /locus_tag="DMACINML_00635"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34280.1"
 /codon_start=1
 /transl_table=11
 /product="putative MotA/TolQ/ExbB proton channel family

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protein"
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IIKRKAFELLSIIDSEIKVISSNK"
gene
101937..102326
/gene="exbD3"
CDS
101937..102326
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/inference="similar to AA sequence:RefSeq:CAL34281.1"
/codon_start=1
/transl_table=11
/product="putative exbD/tolR family transport protein"
/protein_id="Prokka:DMACINML_00636"
/translation="MPFDDEKPELNITPLVDIMLVLLAILMVTAPSITYEEKINLPQG
SQKSTSAPSVKSLIVSINAKKEIFLNQEKYSFVSFADNLAQKKAQFNTDEPVFIRADK
SLKYDDVIFVLRISIKNLGFSKVALQTE"
gene
102331..103107
/locus_tag="DMACINML_00637"
CDS
102331..103107
/locus_tag="DMACINML_00637"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34282.1"
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/transl_table=11
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/translation="MKEYGLGKINSFLLAVAVYIFIIILIFFRLVTHMEPAIQYTDIQ
DSFIDIELMEPSKKVVNEQSTPKDIQKPTQELDIEKLFAQTTNKAVKTEDVDQKASNF
NELFGSIKEIQEEKTTKIQSSAKSETRSSKTQASELVKQLNDSLLEESINQGESIK
NQKTGIYDEFLGKVRTITQRWRQYHPNSENISVKVKIFIDENGNFGYTSVEKSGNSL
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gene
103121..104332
/gene="tolB"
CDS
103121..104332
/gene="tolB"
/locus_tag="DMACINML_00638"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34283.1"
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/transl_table=11
/product="putative TolB precursor protein"
/protein_id="Prokka:DMACINML_00638"
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INLKRSFYNIIVNDLVSSNFVSDASSEASNYTFEYDLSKNGNALNLHVKIKAGGL
EKSSQTYALNGVEQYPFLAHSVKASVNALGLAPVEWMDHKILIARNSSSKKSQIIMA
DYTLTYQKVIIDGGLNLPKWGNKEQSIFYTAYDHRPTLYRYDLRTNKASKILSSG
GMVVASDVS LDGSKLLVTMAPKDQPDIIYLDLKSNTQLTNYSGIDVNGNFIGVDDS
KFVFSVSDRLGYPNIFIQNVNNGSAEQAVFHGKNNSAVSTYKDFLVYSSREPQVGVFN

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IYLMINSTGIRQFTANGKNLFPRFSSDGGSSIVFIKYLGAQSALGVIRVNANKTFYFP
 LKVGKIQSIDW"
 gene 104409..104906
 /gene="pal"
 /locus_tag="DMACINML_00639"
 CDS 104409..104906
 /gene="pal"
 /locus_tag="DMACINML_00639"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34284.1"
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 /transl_table=11
 /product="peptidoglycan associated lipoprotein (omp18)"
 /protein_id="Prokka:DMACINML_00639"
 /translation="MKKILFSSIAAFALVISGCSTKSTSVSGDTSVDSNRGTGGSDGW
 DIDSKISQLNDTLGKVYFDKFNIRPDMQNVVNTNANIFNNEVSGVSITVEGNCDEW
 GTDEYNQALGLKRAKAVKEALIAQGVNSDRIAVKSYGETNPVCTEKTACDAQNRRAE
 FKLSR"
 sig_peptide 104409..104477
 /gene="pal"
 /locus_tag="DMACINML_00639"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 23"
 gene 104910..105863
 /locus_tag="DMACINML_00640"
 CDS 104910..105863
 /locus_tag="DMACINML_00640"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34285.1"
 /codon_start=1
 /transl_table=11
 /product="putative periplasmic protein"
 /protein_id="Prokka:DMACINML_00640"
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 STELQNLKAYVEESRKIQDANNKQIKKILTELSSLVDSINANYVSKDDLSTNLSIKN
 TVVPLSTDDKNITSSNENNISVASTQEKEVKQIDDSWKKKKNEILDLAIKDLNNS
 YENSKIKLNYLIQKQYKPARANFWLGEIEYKQKKYNNNAIVYYKKSSALSTKGDYFPKL
 LYHTAISLDKIGDPKTANGFYKALKTNYPNSPEAKASPNRK"
 sig_peptide 104910..104981
 /locus_tag="DMACINML_00640"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 24"
 gene 105879..106445
 /gene="slyD"
 /locus_tag="DMACINML_00641"
 CDS 105879..106445
 /gene="slyD"
 /locus_tag="DMACINML_00641"
 /EC_number="5.2.1.8"
 /inference="ab initio prediction:Prodigal:2.6"
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 /codon_start=1
 /transl_table=11

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/product="FKBP-type peptidyl-prolyl cis-trans isomerase
SlyD"
/protein_id="Prokka:DMACINML_00641"
/translation="MAIEKNSVSMFYELKDANTNEVLESNLYAQPISFILGKGQILE
ALEEEVMKLDPCSNADVVKKEKGLGEYDENAVQVLPKEQFAGIDLKIGMELFGEGEN
GETVRVTVKEIGDNDVTIDYNHPYAGRDLFSLNIVDARVASEDELLTGIIAGSHSCG
CGSGHGHDDHHGGGGCCGGGGGGCGCH"
gene 106402..107367
      /gene="fabD"
CDS   106402..107367
      /gene="fabD"
      /locus_tag="DMACINML_00642"
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      /inference="similar to AA sequence:RefSeq:AVS36599.1"
      /codon_start=1
      /transl_table=11
      /product="[acyl-carrier-protein] S-malonyltransferase"
      /protein_id="Prokka:DMACINML_00642"
      /translation="MDAAVAVAADVATKMNAVFIFPGQGSQSLGMGKDFYENSKTAK
ELLENASDFCKIDFKNLLFNENEDLNKSEFTQPAILLNSLMAYSALSELKPDIAKAFS
LGHSLGEFSALAINGAFSFL EATMLVHKRGLFMQEDCAKVEAGMMVILGLDDKKVEEL
CRKARDEDKKIFAANYNCDGQIVVAGLKPDLASYESVFK EAGAKRAMLLNMSVASHCP
LLENASNKLCIELERILEPNFKAVISNATAKAYTSKQEAL ELLKTQLVAPVLYKQSIK
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gene 107368..108054
      /gene="pfs"
CDS   107368..108054
      /gene="pfs"
      /locus_tag="DMACINML_00643"
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      /inference="similar to AA sequence:RefSeq:CAL34288.1"
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      /product="5'-methylthioadenosine/S-adenosylhomocysteine
nucleosidase"
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LAYSIGKVNSTLSASVMIEKFGAQVLLFTGVAGAFNPELEIGDLLYATKLAQYDLDI
TAFGHPLGFVPGNEIFIKTDDKLNLALEVAKELNIKLRAGI IATGDEFICDEAKKAK
IREIFNADACEMEGASVALVCDALKVPCFILRAMSDKAGEKA EFDDEFVINSAKISA
NFVLKMCEKL"
gene 108051..108806
      /locus_tag="DMACINML_00644"
CDS   108051..108806
      /locus_tag="DMACINML_00644"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:ABS43221.1"
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      /transl_table=11
      /product="PP-loop family protein"
      /protein_id="Prokka:DMACINML_00644"

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NSSFCSYFSRMRGALYTYALEKGFNKLAIHHLDDAAESFFMNFHNGALRTLAPIY
QSKRGITVIRPLIFVRERQLRDNATQNELQVIGNEFCPGMKLSEKNVKFPHAREEAKQ
LLANLEKEHPKLFTSLKTAFSNLHTESFWLEKA"
gene      108811..109332
          /locus_tag="DMACINML_00645"
CDS       108811..109332
          /locus_tag="DMACINML_00645"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL34290.1"
          /codon_start=1
          /transl_table=11
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          /protein_id="Prokka:DMACINML_00645"
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LLLTYDTHDEDYLRKEGLNLPHEHCIKDSLWQMPKEFTFPLQKAHKVFKNTFGSL
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AFDLLRAYGIEIL"
gene      109332..109946
          /locus_tag="DMACINML_00646"
CDS       109332..109946
          /locus_tag="DMACINML_00646"
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          /inference="similar to AA sequence:RefSeq:CAL34291.1"
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KIDFALDENPSFLPRLKDVHLHGFVWIMDREKMLIWQEFIRLLYHHLKDAQVLESFYF
ELLDECVKRFEKQNPKRVIVDAYLKILEFEGRLHQEFRCFACDESIENPITLIRAFPL
SHHTCALGYAFEKQKLNKFYESKNCAIFGDEEIGNLYQLIKEGL"
gene      109943..110350
          /locus_tag="DMACINML_00647"
CDS       109943..110350
          /locus_tag="DMACINML_00647"
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          /transl_table=11
          /product="Metal-dependent hydrolase YbeY, involved in rRNA
and/or ribosome maturation and assembly"
          /protein_id="Prokka:DMACINML_00647"
          /translation="MILSDEKCEFLEPIASFSSKDVLFVVEKEMQEINLEQRKQD
KTTDVLSFPLENIDESLPLGSVINIDLAKQKAKELGHSFEEVSLFFIHAMLHLLGF
DHEVDNGEMREKEKELIEHFNLPKSLIIRTLED"
gene      110482..111684
          /locus_tag="DMACINML_00648"
CDS       110482..111684
          /locus_tag="DMACINML_00648"
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GSNKYQIQNGEISKGGALVAFFTNNLSFVEGKTTLLGKLAGLNSNTDNDKIKEFLSFM
NANPLKYSYEQEGWGNPMGDSLIIWNYMNRANKLGNDKLTKTIE NLGKEYNQLINADM
SLEEFKTKYLDFKQRHDEFVKSLEEA EKAKGIDYNNPTKSTNNKETSEEDKEKPFKPI
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PKIIDIKA"
gene      111720..111956
          /locus_tag="DMACINML_00649"
CDS      111720..111956
          /locus_tag="DMACINML_00649"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CKG68105.1"
          /codon_start=1
          /transl_table=11
          /product="FIG00470444: hypothetical protein"
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          /translation="MIGINSTFNNSFVNLNIKNNNNSSLNSNTNVKNLQDTQDTTKTS
NKVLGYEVDKDGFFTSDFNKAAGLPILHNFHPLK"
gene      112352..112999
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CDS      112352..112999
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gene      112996..113784
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EFVKEFETAMGDKMLLANNDISMQEDKEKPFKPIQAESKNKETYKDDSKMNELLLKL
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gene 114829..115425
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/note="predicted cleavage at residue 22"
gene 115442..116137
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CDS 115442..116137
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VDLLKTLTSMNEFEKIWGAERAQREKQFFNELGKPLTQEDIDKFLANKNNQKEDKEKP
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gene SQNTSAKIIDIKA"
 116173..117399
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 ANNNLQIYQSPKQLALSFPWNENSPNDYTKKNSDIFAPSSHIDIGASFYKNDNGTIS
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 GDIGTDFINVLKLNKNSIDIDEFKKQWLEMKAKSDEMGEVYKAKQKEVISSQETSEED
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 DFVSIHGRTRKQLYSGKADYDSIASAKASVKIPVIANGDINAQNAKEVYEITKCDGLM
 IGRASVGNPWIFYEIKSGKNVDEKLKKEIILTHFDEMIKHYKDQGVSIKHLHEYSK
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 KNHIKNDINYASKIKNLSQTQDEFQDLAFESLIKKGTYEQIKNIKITKPKCHILTLI
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 gene complement(119326..119679)
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 CDS complement(119326..119679)

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gene complement(119691..120140)
CDS /locus_tag="DMACINML_00659"
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gene complement(120142..120984)
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/EC_number="6.4.1.2"
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ASGGARMQESTYSLMQMSKTSAAKLLSKEKLPYISVLTDPMTGGVSASFAWLGLDII
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/inference="similar to AA sequence:RefSeq:CAL34298.1"
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transferase subunit beta"
/protein_id="Prokka:DMACINML_00660"
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ASGGARMQESTYSLMQMSKTSAAKLLSKEKLPYISVLTDPMTGGVSASFAWLGLDII
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FCGK"
gene complement(120999..121715)
CDS /locus_tag="DMACINML_00661"
complement(120999..121715)
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gene      complement(121715..123931)
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CDS       complement(121715..123931)
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          NRGENI IINNVL SGA EKFSYSDIEPAIVNKEKEFMGMMWGRNDGK LKIFELSND SAR
          ISDEYMKKGYLDVQVSSPYLKTYTDYQANLTYFIKEGKPYKIQSISIENPLFSEEN
          KQNL ENLRSTQGKLINIEDIRKDVKT IETQSADLGYAFAEVYPDIQKNDQTQEATVVF
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          VEIKEEKVDDTHIDLIVNVKEASTGAISGGIGYGSSDGLLLNASLSDTNIFGSGIKSS
          VSVDKSDDTLSGRISLINPRILDSQYSLGGTLYSNDYEWDNYSEKNYGF DITLGRQFA
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gene      124007..124834
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          /gene="tyrA"
          /locus_tag="DMACINML_00663"
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          /protein_id="Prokka:DMACINML_00663"
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          GLVHELIEFENLHLC DMIF IATPVNAIIIEILQKLVDLPSNITIIELGSTKRKIIIEKLP
          AKLTKQTLFAHPMAGTENS GPKAAFKELYKDAVCVLC DSEVADDLHQKRAVEIFSHLG
          MRIVFMDSTAHDHHAII SHLPHVISFSLANFVMKEEDKRNIVHLAGGSFKGMSRIAK
          SSPIMWGSIFEQNKDNVLS SIEFFQKELEFCKKMIEEDKNEELKSWMQANTLREIL"
gene      124931..126304
          /locus_tag="DMACINML_00664"
CDS       124931..126304
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SVVFSASDANLDKVYIETNTGKIFKATPYLKEGYAALIARDARDEEFRAYIIATDKA
GNITKERIRYFVNRKYRVSINLDRFLDGGKIEDLAQEYAPKDNFTRFEKFKFVNE
TLRDNNEILIHKITSEVPESKIDNFKIDLFLPLRNGMKVADFADHRYYSYNGQFVSDS
YHMGIDLASVAEAPIISNPGKVFAEENGIYGLNLIVYHGFVYSLYGHCSSKNVEI
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gene 126304..127188
      /gene="lpxC"
      /locus_tag="DMACINML_00665"
CDS 126304..127188
      /gene="lpxC"
      /locus_tag="DMACINML_00665"
      /EC_number="3.5.1.-"
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      /inference="similar to AA sequence:RefSeq:CAL34303.1"
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      /product="UDP-3-O-[3-hydroxymyristoyl] n-acetylglucosamine
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VIGEQSYNFESKKNYIENIARARTFGFLKDVQALRDMNLALGGSLNENTIVVDDNRIL
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gene 127227..127628
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CDS 127227..127628
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gene 127646..128524
      /gene="thrB"
      /locus_tag="DMACINML_00667"
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      /gene="thrB"
      /locus_tag="DMACINML_00667"
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AVVIVPNVAMSTEQSRNALPSNLSLKDSVFNLCSSFLTACFLEKKYDLLALASKDLL
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gene      128518..128811
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CDS       128518..128811
          /locus_tag="DMACINML_00668"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL34306.1"
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gene      128798..131368
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CDS       128798..131368
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KTMFSNADENLKKKKKEKPFVATKKESAEMDFLEGHDFADISLEDEDVVVLPDFSV
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EYNRQKELSKSTKVSIDELGAKIKEGNLKPVILKADVQGSLEALKASLEKLRNDEI
KVNIHSGVGGITQSDIELASASENSIVLGFNIRPTGEIKERAKDKGVEIKTYNVIYN
LLDDVKALLGMMSPHISEEQLGQAEIRQVINVPKIGQIAGCMVTEGVINRGAKIRLI
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gene      131365..131724
          /gene="rbfA"
          /locus_tag="DMACINML_00670"

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CDS 131365..131724
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 /locus_tag="DMACINML_00670"
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 /protein_id="Prokka:DMACINML_00670"
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gene 131717..132604
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CDS 131717..132604
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 /locus_tag="DMACINML_00671"
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 /protein_id="Prokka:DMACINML_00671"
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 DEKTRINLAPSFDAAGIASKISEEA KIKLQTKDKNQV LAYCLKSNSAFCDSEGR
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gene 132601..133314
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gene 133304..133747
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CDS 133304..133747
 /locus_tag="DMACINML_00673"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AGV48750.1"
 /codon_start=1
 /transl_table=11
 /product="ribosome maturation protein RimP"


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VNLDDCARLSEILSPIFDVEPPVSGEYFLEVSSAGLERKLSKIEHFAKSINELVKITT
NEKEKIEAKIISVEDENITLENLENQEKTTLKFSDIKKARTFVEW"
gene complement(133757..134743)
/locus_tag="DMACINML_00674"
CDS complement(133757..134743)
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/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
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LYKCLKQHINLNTKNGISQWNYLEQIIYEVRNNIDFNVFIFALKIYSIKNFLLELAKIR
QRNNIIRLSKIDPLSLEYDKITIYNPYSTRVNGALLALTFNHIDNNQFFHDNIDKEY
FASICQLSQELKKGLEPNQIFMLIFNESINQSIISNSGSNYESRILEKLESIGINQE
AIIKKHDENDSSTEFDFFFNLNGKSYGIGAKRTL RERYKQFIKTVQMSTIDVMIEITL
GLDLGEEKAKAIRNHGVYLIVSDEIYEQNKFLQNIIDGVFGSSQFTLELLENL"
gene complement(134730..135695)
/locus_tag="DMACINML_00675"
CDS complement(134730..135695)
/locus_tag="DMACINML_00675"
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/inference="similar to AA sequence:RefSeq:ASE91810.1"
/codon_start=1
/transl_table=11
/product="DNA (cytosine-5-)-methyltransferase"
/protein_id="Prokka:DMACINML_00675"
/translation="MINNTDKLKAIDL FAGIGGIRIGFKNIFQEKLEFVFSSEIDKFA
CQTYFCNFNELPHGDITQINENDIPKHNILLAGFPCQAFSIAGHRKGFNDIRGTLFFD
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NRERIYIVAF LKNKFNISFSFNELKNIKIKSKLGDILEKNIDEKYTISDKLWAGHQ
RKLEHAKKGNFGYSLFNHDSEYTSTISARYYKDGSEILIEQKNKNPRKLTPREAARL
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gene 135914..136225
/locus_tag="DMACINML_00676"
CDS 135914..136225
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/inference="similar to AA sequence:RefSeq:APA48481.1"
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/translation="MLKPDLYIENKMILDAKWKIPDSNEDKKHGIAQSDLYQMFAYAC
KFKIHDIKLIYPLCERTMNLQNTIKELFNANEHLAFLNDNSLLKTNIKVQVIFAPLP
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gene complement(136214..137020)
/locus_tag="DMACINML_00677"
CDS complement(136214..137020)
/locus_tag="DMACINML_00677"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34312.1"

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protein"
/protein_id="Prokka:DMACINML_00677"
/translation="MFEILNFTFFQNALLAAILVSIACGVVGLTVMINRLFISIAGGIT
HGAFGGIGIAFYFSLPILISTGIFTLFLAFLVAFLSKRYEHRSDSIVAVIWAFGMAFG
IILIDLSPGYSTDLMAYLFGNILAVGMQDLWLMAIVDGVVIVLMLLFYRQFEALSFDV
EFAKVRGINTSFFHYLLIALMAFCIVISIRLVGIILIMALLSIPSFIAENFTKKLGLI
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gene complement(137013..137867)
/locus_tag="DMACINML_00678"
CDS complement(137013..137867)
/locus_tag="DMACINML_00678"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34313.1"
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/transl_table=11
/product="putative ABC transporter ATP-binding protein"
/protein_id="Prokka:DMACINML_00678"
/translation="MLFFEISNLNYAYNNETILKNINLSYDSKDFLSIIGPNGAGKST
LVKLILGLLKTKKTINFHGLKKEIGYVQPHTLANPNFCPRVIEIVLMGLVNKKIFGF
YSKKDKNKALEALASVGMQDFWDRKINELSGGQKQRFVIARALVDECKMLILDEPTAS
VDSKSAIQIFELLSSLHEKGIGILLICH DINLVLA YSDK IAYLNKELFLHTNTKEKDK
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KFSKESHV"
gene complement(137881..138735)
/locus_tag="DMACINML_00679"
CDS complement(137881..138735)
/locus_tag="DMACINML_00679"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34314.1"
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ABC transport system"
/protein_id="Prokka:DMACINML_00679"
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LEIIDMQKDIPLAKTSSSNSKEILD PFTWLDPILVQNIALNTYNALVQKYPQNKSLYK
RNLDKFLTEL DVLN LQISSKLQKVKNKEFITYHPAWSYFAKRYNLVQNHVEFLGK LK
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ANAFYENL"
gene complement(138906..139844)
/locus_tag="DMACINML_00680"
/locus_tag="DMACINML_00680"
/EC_number="1.8.1.9"
CDS complement(138906..139844)
/locus_tag="DMACINML_00680"
/EC_number="1.8.1.9"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34317.1"
/codon_start=1
/transl_table=11

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/product="thioredoxin reductase"
/protein_id="Prokka:DMACINML_00680"
/translation="MLDVAIIGGGPAGLSAGLYTTRGGLKNVVMFEKGMPPGGQITSSS
EIENYPGVAQVMDGISFMAPWSEQCMRFGLKHEMVGVEQISKNEGDSFTIKLEGGKTE
LAKAVIVCTGSAPKRAGFKGEDEFFGKGVSTCATCDGFFYKNKEVAVLGGGDTALEEA
LYLANICKSVYLIHRRDEFRAAPSTVEKVKKNEKIELITSASIDEVYGDKMVGTGVKV
KLKDGSIKDLNVPGIFTFVGLNVRNEILKQDDGKFLCDMEEGGQVSVNLKMQTSVPG
FAAGDLRKDAPKQVICAAGDGAVAALSAMAYIESLH"
gene complement(139979..140293)
/locus_tag="DMACINML_00681"
CDS complement(139979..140293)
/locus_tag="DMACINML_00681"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34318.1"
/codon_start=1
/transl_table=11
/product="thioredoxin"
/protein_id="Prokka:DMACINML_00681"
/translation="MGKYIELTSDNFAQAKEGVALVDFWAPWCGPCRMLAPVIDELAN
DFDGKAKICKVNTDEQGLAAEFGVRSIPTLIFFKNGEVVDQLVGAQSKQAISDKLNS
LL"
gene complement(140348..140686)
/locus_tag="DMACINML_00682"
CDS complement(140348..140686)
/locus_tag="DMACINML_00682"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34319.1"
/note="conserved hypothetical protein Cj0148c"
/codon_start=1
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/protein_id="Prokka:DMACINML_00682"
/translation="MGFASYLSGILGEDKACEFLKKQKFEILKRNFRSKFGEIDIIAR
KDGILHFIEVKFTQNNYEVSERLNIKKYERILKTIEFYELKHGILNDFQIDLICISDD
MIQFFENISF"
gene complement(140686..141936)
/locus_tag="DMACINML_00683"
CDS complement(140686..141936)
/locus_tag="DMACINML_00683"
/EC_number="1.1.1.3"
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/inference="similar to AA sequence:RefSeq:CAL34320.1"
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/product="homoserine dehydrogenase"
/protein_id="Prokka:DMACINML_00683"
/translation="MKVAILGYGVGSAVARVLIQNKEIIRARCGQDIIPVIALAKSQ
KENPLIPIVTNVDEILQRDDIDVFVELMGGVETPFKIISEILKKNKPVVTANKAMLAY
HRYELEELAKNTTFGYEASVAGGIPIIKALKEGLSANNILSIEGILNGTSNYILSAMN
SKGLNFDDVLKKAQELGYAEADPTFDIEGQDAAHKLLILASIAYGLRAKPEDILIEGI

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SKISAEDMYFAKEFDFTIKLLGIAKAQNSTVELRVHPTMINKDKMIAKVDGVMNAISI
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 TKYYLRKLVEDKTGVLSKITQLMSENNISIDSFLQPKQGEIYSTLFFTTHTFEKSI
 QNLLSILEKQDFIKAKPFMMRIEE"

gene complement(141938..143143)
 /locus_tag="DMACINML_00684"

CDS complement(141938..143143)
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 /EC_number="2.6.1.1"
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 /inference="similar to AA sequence:RefSeq:CAL34321.1"
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 GKTPQHIIDKLCEANKDKTSGYSTSMGIYKRLAICNWKYKYGVNLDPENEVATM
 GSKEGFVNLARAIINPGDVAIVPAPAYPIHTQAFIIAGGNVAKMPLKYNEKFELDENK
 FFEDLDKTLHESIPRPKYVVVNFPHNPTTVTCEKSFYERLVATAKKERFYIISDIAYA
 DLTYDDYKTPSILEVEGAKDVAVETYTLSSYNMAGWRVGFVGNKRLVAALKKIKSW
 FDYGMYPPIQVAATVALDGDQSCVDEIRATYDKRMHILLEAFENAGWKLHKPRASMFV
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 NIKKYLKEE"

gene complement(143156..143962)
 /locus_tag="DMACINML_00685"

CDS complement(143156..143962)
 /locus_tag="DMACINML_00685"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34322.1"
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 /transl_table=11
 /product="putative periplasmic protein"
 /protein_id="Prokka:DMACINML_00685"
 /translation="MVKKIFIFLFLANSVFAVSSLELAKNLVANPSKDSQLRLLFPDS
 SYIDNKGNDIAKISRILKTNLNLTLSDPQTLRLNFKAKADSVVFFKILTDALTNL
 GYIYFIPTDMILRDGNIDYTIQVESQYILDPGALYSLLKDNSVYIDNIKRIGTYDYEY
 DLNFENAQLNTNIDLKLNSTQTLERPLKDYVFTLQGASNLIIAHDADFVFPKVLFLD
 KNLNLKAIKSQAQNNHFSELIPSGAVYAIVSDMYNLDNIRRGLKITLKK"

sig_peptide complement(143888..143962)
 /locus_tag="DMACINML_00685"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 25"

gene complement(143956..144900)
 /locus_tag="DMACINML_00686"

CDS complement(143956..144900)
 /locus_tag="DMACINML_00686"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34323.1"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_00686"
 /translation="MLNWKKIEDLNLKEVAARTKIELDFLEALVKKDFVTLNRFNVRG
 FVKILSREYELDFTFNEEFETYLNENNLNDTAKPKIITPKLDAYTQKSTGFVSFIVI"

VIIILALVGFGIYYFDYIKSFFQNDQNNSSAAVVDIIGQAQSNLKALENNVVVIDNQAE
ENETEANLTQIQNTELNNTKEEIKQISTTQNNTNAKEENLSTNDSLATTNQEVELTK
APNKEAHFKASGKIWIWGLIDLSNYRKTGLVKENDFNLSLEVNRLVLTGAAALSVDEN
GKEQKFPAGNSKRFLIKDGKITSISAAEFMKNLKGKEW"

gene complement(144893..145576)
/locus_tag="DMACINML_00687"

CDS complement(144893..145576)
/locus_tag="DMACINML_00687"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34324.1"
/codon_start=1
/transl_table=11
/product="putative rRNA methylase"
/protein_id="Prokka:DMACINML_00687"
/translation="MIVYGKQIFFYILERHKELINELYLAKECDKETFKKIANSFGKI
KKLDFKTAQAYAKGGNHQGFLLDIKEYEFKDLHTLKKGFIAILYGISDVGNGAIVR
TAYALGVDGLIFIGERLAMEGVIRTSSGAALDLEIALNNDIFTVLNELKQVGFKLFAS
ASGGKQIHHYKVDKGGKALILGSEGLGLSAKIIKKCECVGIEMKNNFDSLNVSAFA
ILCDRMINA"

gene complement(145589..146413)
/locus_tag="DMACINML_00688"

CDS complement(145589..146413)
/locus_tag="DMACINML_00688"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ALF91223.1"
/codon_start=1
/transl_table=11
/product="tetrapyrrole methylase family protein"
/protein_id="Prokka:DMACINML_00688"
/translation="MLYFIPTPIGNLSDISFRALELLKTCNVFFCEDTRVSKSLLSLL
SSKFEIDFGDKQFISFHTHNEKKVLENLDLEFFDQDIAFLSDAGMPGISDPGQFLIDF
ALKNDIQFEVLPGANAALVALVSSALCEKEFIFMGFLANKGKERQRDIQKILNHTYPS
IIYESPKRILSLIEQIAILDSQREIFAIKEISKKFETKFKAKAIDLFDILKQTNLKG
WVVVLAKNDKDSIGNSLCENDILELEIPLKTKSKLLAKMNGKNPKEIYQKLLLSQS"

gene complement(146416..146616)
/gene="rpmE"

CDS complement(146416..146616)
/gene="rpmE"
/locus_tag="DMACINML_00689"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34326.1"
/codon_start=1
/transl_table=11
/product="50S ribosomal protein L31"
/protein_id="Prokka:DMACINML_00689"
/translation="MKKEIHPEYVECKVSCACGNTFVTKSNKSELRVVICSSCHPFFT
GSEKIVDAAGRVEKFKKKYAMQ"

gene complement(146695..147348)
/locus_tag="DMACINML_00690"

CDS complement(146695..147348)
/locus_tag="DMACINML_00690"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34327.1"

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/note="conserved hypothetical protein Cj0156c"
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IYDYKISNLDRNSCLLYFLNKHFKPHSQSELNLALAVIDTKILEKTLPLFLNELGVANL
HLVFTEFSQRNFKLDFERLEKIISSCEQCGRSRKMQIQSYKNIQEFKSFDAVLVD
FEGEIKEFDKTRLYFIGPEGGFSPKEKQMFKEKICLKVPNILRSQSAVVAVAAKILL"
gene complement(147349..147756)
/locus_tag="DMACINML_00691"
CDS complement(147349..147756)
/locus_tag="DMACINML_00691"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34328.1"
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/product="putative integral membrane protein"
/protein_id="Prokka:DMACINML_00691"
/translation="MDKSYEFFLALHLYSLYASGFLMLFYLVLTQGNFKTEFIFIRRI
RLFLPIIYVFLALMLFTGFLLLAIKQFQMHLNLWLMIFSWIFIFALAIHFHTQFKKAR
RLRRYITFRRISFMILFCELVLLILPFLTGKYL"
gene complement(147760..148179)
/locus_tag="DMACINML_00692"
CDS complement(147760..148179)
/locus_tag="DMACINML_00692"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34329.1"
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/transl_table=11
/product="putative heme-binding lipoprotein"
/protein_id="Prokka:DMACINML_00692"
/translation="MGKNLSILISLFLVILFLNACSNDKEFNHKNQDTTEEIVQIEQND
EKTEFSDTNLPLPVDDEANIGEEYDINPSVINSLYKQKATCHGEKGEIKTKKGLIAIK
NLSSEKFIQRLQNLKDEAHNFLTQEQRNLAKYIGKE"
sig_peptide complement(148120..148179)
/locus_tag="DMACINML_00692"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 20"
gene complement(148179..148760)
/locus_tag="DMACINML_00693"
CDS complement(148179..148760)
/locus_tag="DMACINML_00693"
/EC_number="4.2.3.12"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34330.1"
/codon_start=1
/transl_table=11
/product="putative 6-pyruvoyl tetrahydropterin synthase"
/protein_id="Prokka:DMACINML_00693"
/translation="MIIRKLFEFENAHIVRFCSSSRCKSSIHGHSYKVEVLLESKYLD
NAGMVYDFGLLKTHMRQIIDSFDHAITL FNQDDESYLNEMKKYSQRWVSLPVNVSAEN
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NIEFSPAIAEWSDIEFYDKLKNLHIFTNPKEV"

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gene complement(148757..149500)
/locus_tag="DMACINML_00694"

CDS complement(148757..149500)
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/inference="similar to AA sequence:RefSeq:CAL34331.1"
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/protein_id="Prokka:DMACINML_00694"
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EFIHF IQTLLENNFKVHFESNGSIELDFEKYPFYKECIFALS VKLQNSGISKEKRLNF
NALKGF KHYAKDSFYKFVLNSSQLESSALEILEILEKAPNEIFCMPMGENEQNLKQNA
LKIAEFCIKNGYNSDRIHIRLWNDKEGV"

gene complement(149503..150465)
/gene="moaA"

CDS complement(149503..150465)
/gene="moaA"
/locus_tag="DMACINML_00695"
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/inference="similar to AA sequence:RefSeq:CAL34332.1"
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/transl_table=11
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protein A"
/protein_id="Prokka:DMACINML_00695"
/translation="MLIDQFGRKINYLRISVTQRCNFRCLYCM PKIPFNHQPKENLLS
FEELFLFVKVAIDEGIEKIRITGG EPLLRKDL SIFIKMINDYK KDLDLAITTNGFLK
DFAKDLKDAGL KRLNISLDTLESKKAKT LAQKDVLD SVLAGIDEALNVGLKVKLNTVV
LKGLNDELISLLEFAKSKNIQIRFIEFMENIHAYGKLQGLKRDEIIQILSQYQIKL
IKKA EKAPVSIYSADDYEFGIIDPHSHEFC DSCNRIRLSAEGLLIPCLYFDEALS IKE
AVRKG DINA AAKILQEVL RNKPEKNRWSVVDNETSSRAF YQTGG"

gene complement(150481..150999)
/locus_tag="DMACINML_00696"

CDS complement(150481..150999)
/locus_tag="DMACINML_00696"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34333.1"
/codon_start=1
/transl_table=11
/product="putative periplasmic protein"
/protein_id="Prokka:DMACINML_00696"
/translation="MSNDVLYLVFMIVLLVAILAYMNIKDKESSAKINKLQGVVEDIT
KELHYLRKELGVKDEGDQEEEDYKITLLKEEIQITL EKQISAKITPVLRTLKTMEHII
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VELVLKFKQLIK"

gene complement(150992..151492)
/locus_tag="DMACINML_00697"

CDS complement(150992..151492)
/locus_tag="DMACINML_00697"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34334.1"

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KKDKNE"
gene complement(151483..152367)
/gene="ubiA"
CDS /locus_tag="DMACINML_00698"
complement(151483..152367)
/gene="ubiA"
/locus_tag="DMACINML_00698"
/EC_number="2.5.1.-"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34335.1"
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octaprenyltransferase"
/protein_id="Prokka:DMACINML_00698"
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VMGEIHIYSVILCLGVTFWTAGFDLLYSLQDMEYDKKVLHSIPAKFGSKATLFIISAF
CHVLAVLFWLLFVWQVWGVALGNIALLGVIISGIIAFAHEKIVHKNFAHIDKAFFTLN
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gene 152438..153307
/gene="miaA"
CDS /locus_tag="DMACINML_00699"
152438..153307
/gene="miaA"
/locus_tag="DMACINML_00699"
/EC_number="2.5.1.75"
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/inference="similar to AA sequence:RefSeq:CAL34336.1"
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/product="tRNA delta(2)-isopentenylpyrophosphate
transferase"
/protein_id="Prokka:DMACINML_00699"
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YLKTMIDGLSQKIQDTSILSNDEIYTLNLLKIDPAYKIEKNDTYRLRKWLSIYENTKE
IPSDFLKRTQKDGVLKDIEIYELVWDREILRKRIEARTKEMIDSGLIEEARMFLSNFD
NNLKALNSIGLKECKEYLENKISLKELENLITIHTSQLAKRQRTFNKKFQSTPLEFSK
ALTLLRNKFLAKK"
gene complement(153293..153856)
/locus_tag="DMACINML_00700"
CDS complement(153293..153856)
/locus_tag="DMACINML_00700"
/inference="ab initio prediction:Prodigal:2.6"

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GFQALMPAIGYVIGITFASFIASIDHWIAFILLSLIGLKMIKESFENENCDTNSNQFG
FKIMFALAVATSVDALAIGVSFAFLDVNLFALFLIGSITFILCAIALEIGNKFGTRF
KNKAEFLGGAVLIILGIKILIEHLFFS"
gene 154029..154103
/locus_tag="DMACINML_00701"
tRNA 154029..154103
/locus_tag="DMACINML_00701"
/product="tRNA-Glu"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Glu(ttc)"
gene 154265..154672
/locus_tag="DMACINML_00702"
CDS 154265..154672
/locus_tag="DMACINML_00702"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AHY39679.1"
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/product="integral membrane protein"
/protein_id="Prokka:DMACINML_00702"
/translation="MSYDTNFFLLYFKDKVPKDSLIFLKESLEKASEEQKEKLLFTKL
KNPLYGLLFAFLPGLDRIYNGNIILGILKIISVILVSMGLVIAEDKNDSTMLIFIN
LFFILSVWILDYFLVWKDQCNNLKKIFEVLQ"
gene 154669..155097
/locus_tag="DMACINML_00703"
CDS 154669..155097
/locus_tag="DMACINML_00703"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AHY39679.1"
/codon_start=1
/transl_table=11
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/translation="MKQDKTILLIFKDKIPQERLFILGEELKKSQKDL SALY AISLKN
PLVGLVLSITVGLFGVDRFYKGDILLACIKLAFFIIPLFATFAAFIALLNKSHSIFID
YFAIFALMFVVASIWKLVDIYLVFVGIKKDNFYKILNFLS"
gene 155205..155843
/gene="sodB"
/locus_tag="DMACINML_00704"
CDS 155205..155843
/gene="sodB"
/locus_tag="DMACINML_00704"
/EC_number="1.15.1.1"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34339.1"
/codon_start=1
/transl_table=11
/product="superoxide dismutase (Fe)"

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/translation="MFELRKLPHYDTNAFGDFLSAETFSYHHGKHHNTYVTNLNLIKD
TEFATKDLVSIKSSSGGVFNNAQVYNHDFYFDCITPNACEVKGDIKAALKEFGSL
ENFKAEFIKGATGVFSGWFWLVYNTKNQKLEFVGTSNAATPITEDKVP LLVVDVWEH
AYYVDHRNARPAYLEKFYAHINWEFVAKAYEWALKEGMSVSYFANELHPVK"
gene complement(155871..157076)
/locus_tag="DMACINML_00705"
CDS complement(155871..157076)
/locus_tag="DMACINML_00705"
/EC_number="1.5.1.7"
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/inference="similar to AA sequence:RefSeq:CAL34341.1"
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/transl_table=11
/product="putative saccharopine dehydrogenase"
/protein_id="Prokka:DMACINML_00705"
/translation="MKNLLIIGAGVSRVATVKCAMNSDTFSKITLASRTKSKCDEIA
SFIKERLGVEIQTAQIDADDSDAVVELIKKTGAQILLNVALPYQDLSLMDACIKAGID
YVDTANYEHPDLAKFEYKEQWARNDKFKEAGILGLLGSFGDPGVTNVFCAYAQQNLFD
EISYIDILDCNAGDHGYAFATNFNPEINLREVSAGRYWEKGEWIETEPMEIKMEWDY
PEVGVKDSYLLYHEELESLVKNIKGLKRIRFFMTFGQSYLTHMKCLENVGMLGIKPV
HOGKEIPIEFKTL LPDPASLGPRTKGYTNIGCVIRGVKDGKDRQVYIYNVCNHEEC
YKETGAQAVSYTTGVPAMIGTKLIAKGIWQGGKGVFNMEEFDAKPFMDELNSQGLPWKI
IEMTPSLGE"
gene complement(157112..158017)
/gene="cfbpC"
CDS complement(157112..158017)
/gene="cfbpC"
/locus_tag="DMACINML_00706"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34342.1"
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/transl_table=11
/product="putative iron-uptake ABC transport system
ATP-binding protein"
/protein_id="Prokka:DMACINML_00706"
/translation="MLEIKNLSKNFGKIQALKNINLHVKEGEFLSILGGSGSGKSTLL
RIIAQLEQASSYEF LKCKGEVAMMFQNYALFPHLNVEKNILFALYDKKDKKQILEDLL
KTFEIEENLRYKKIDEISGGQAQRVAFARAVARGCKLLLLLDEPFSNLDQNLKQDLRREL
KKLIQKQKITAIMVTHDIEDAYCMSDKIAFLDKGEILAHADPKELYFKPNHKSARILP
DLNIIIEELDLEDEFFQWIASKNYTFGYAELKIGNRFEATILQKEFLGAFYRLKVRYK
NIEFFMLSSNYPLKEKINFDIINF"
gene complement(158004..159620)
/gene="cfbpB"
CDS complement(158004..159620)
/gene="cfbpB"
/locus_tag="DMACINML_00707"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34343.1"
/codon_start=1
/transl_table=11
/product="putative iron-uptake ABC transport system

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FAKTAFKSEAIEAYEVAKIMGYSEFRIFSRVMLLSARPAIFSGALLVLMETLSDYGAS
AYLGVDTFSAGIFKLWYDLNDSYSSSILSGILMIFVFLIMYIDYYYKKNKHYSFNQNL
TLFIKKRKLSHIKQILACFYCFIALLGFILPFIWLVYWGKDFKLFETEFYIISFQT
IILAFITALITLLAYFLMFSSRIIKNFFSLCILKSSLGYSIPAAALGISMIVLFV
FLDKIFHLNLLGTSLIILVFAYIIRFLASAIYSLEGGYNKIHLNTDEASLNLRPSYLI
LFFKIHTPLMKHFLFLAFIIVFIDTIKELPLSRILAPFGFETLSVKAFWFASDERIYD
AALPSLLIVLLSLIVVIWMDKITRKDDVRN"
gene      complement(159620..160624)
          /gene="futA1"
          /locus_tag="DMACINML_00708"
CDS       complement(159620..160624)
          /gene="futA1"
          /locus_tag="DMACINML_00708"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:SQE23619.1"
          /codon_start=1
          /transl_table=11
          /product="iron ABC transporter periplasmic iron-binding
protein"
          /protein_id="Prokka:DMACINML_00708"
          /translation="MKKIFSLCLLGFSLLGAAELNIYSARHYDADFQIIKKFEEKTGI
KVNHTQAKASELIKRLSLEGSNSPADIFITADISNLTEAKNSGLLSPVSKYLEDTIP
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KTLASIIANDGDENAKAWAKGVLNLDLTKPKGGDRDQARQVFAGEAKFAVMNTYYIG
LLKNSKNPKDVEVGNLGIIFPNQDNRGTHINISGIAMTKSSKNQEAAKKFMEFMLTP
EIQKILTDSNYEFPINRNDVELSQTVKDFGTFKEDQIPVSQIAEKVKEAVKIYDQVGF
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sig_peptide complement(160571..160624)
           /gene="futA1"
           /locus_tag="DMACINML_00708"
           /inference="ab initio prediction:SignalP:4.1"
           /note="predicted cleavage at residue 18"
gene      complement(160625..160747)
          /locus_tag="DMACINML_00709"
CDS       complement(160625..160747)
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          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL34345.1"
          /codon_start=1
          /transl_table=11
          /product="putative lipoprotein"
          /protein_id="Prokka:DMACINML_00709"
          /translation="MKKLVLFLFCLGFAFACSEHSNADFKDHDKTKYNSQYKDK"
sig_peptide complement(160676..160747)
           /locus_tag="DMACINML_00709"
           /inference="ab initio prediction:SignalP:4.1"
           /note="predicted cleavage at residue 24"
gene      160989..161840
          /locus_tag="DMACINML_00710"

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CDS 160989..161840
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 /inference="ab initio prediction:Prodigal:2.6"
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 /product="putative iron transport protein"
 /protein_id="Prokka:DMACINML_00710"
 /translation="MKFYTMLSTLFISFMLSACAVLQKPSPLQENKDFYILNTHTQEK
 ISFEDMILELLKADVILLGEKHDEAKHKISQVMIFNALEGNLSSQNISFDVALEMLAS
 TEQNHLDKAFKKNKNIKVNELANALNWDKGWKKDYDQFVNAVYFSRAKILGANLSRS
 EITSIYNGVQPLKGYVSTTNEVKKQIFDIISLSHKLNPQENKELLDKLVETIQQFKDRR
 MADVLVHHTNKVLLLAGNYHTSKKIGVPLHIQDFKSDKKIVVVNLNYGKVDLKDSDYI
 FIYKGGE"

sig_peptide 160989..161051
 /locus_tag="DMACINML_00710"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 21"

gene 161837..164113
 /locus_tag="DMACINML_00711"

CDS 161837..164113
 /locus_tag="DMACINML_00711"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AON66399.1"
 /codon_start=1
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 /product="Putative outer membrane siderophore receptor"
 /protein_id="Prokka:DMACINML_00711"
 /translation="MKKLSLICVMGLCFANFAFSEEFDSLEISGSRIKNDEKPFVT
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 IGVDDIVQEGRVFGLLGKYSYGSNAIGPDFMGAIAGKTMLNNTSLGVLFAYSQGNVS
 QNYKIGGGGYIGDQKPPIDTDDDGI PDDNLAAPINPNLNQPRSQLFKVEYKSDISE
 AILNYRAYKNNLAGRKITNDTYQIDYRLNPDSNLLDLKFLFAYNDGKQKYNQGSTWGY
 HDMSGVKTKNRAVTFDLNNTMNEKFSQDSNLYFTYGVNILLNHYSNDFPQDRVLLPYI
 LTSFYKPKGQDIKTLYLDTSFTQGIFTLNSNVNWTNAQLSGYKGCISMANPYCQPKNA
 TNLEKDYNFNYSMLMSADIHPLFNPFISYSKSHRIPNVQEYFFTHDASFEHNMNTFL
 KAESADTYQIGFNSFTHEILNDSDTLGFKMLYYDTKVKNYIYNRRYWKADDAVFLMQ
 LNDDEKAKFHGVELEFKYDTGFFYSILSYTYQKSKHKFSDTESLEFGGAQSGQSQFAQ
 LPEHYANLDMGVRLFEEKLTLGALAKYTGKAKRIVPVGSLDDDDPSNPDAMAPLKTDE
 LPKIPTIVDLYANYKILKNFTIKAEVQNLFDKNYMDALYSYNTGENQNAGGLFDPIYI
 YNNSARGRTFIVSFYKY"

sig_peptide 161837..161899
 /locus_tag="DMACINML_00711"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 21"

gene 164126..164887
 /gene="exbB1"

CDS 164126..164887
 /gene="exbB1"
 /locus_tag="DMACINML_00712"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34348.1"

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SSLYQNADEVVKGVIYILVLFVSLAWAVFISKLMQFYFMKKNLDFSIHKIKELKNLNE
LDQTKGFAGVLSLEIQDELEKSEYKNDHIKERIELRLQNTISKQITASKNGLSLLASI
GASAPFIGLFGTVWVGIMNAFIGIANLGNASLAVVAPGIAEALFATAFGLVAAIPAVLF
YNYLTRKNLKLMMHHLDELANFVYILFHRSYFNDKN"
sig_peptide 164126..164185
/gene="exbB1"
/locus_tag="DMACINML_00712"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 20"
gene 164874..165284
/gene="exbD1"
/locus_tag="DMACINML_00713"
CDS 164874..165284
/gene="exbD1"
/locus_tag="DMACINML_00713"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34349.1"
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/protein_id="Prokka:DMACINML_00713"
/translation="MIKTEIAHKEEELSEINITPFIDIMLVLLIVFMAVTPPLITSSIK
IELPKSSQQAEDKLNPIILYLNLDNTLAINDDKLSLENLSSALDIKTKGNKEEIIYF
HIDKSVKYEDIMQVMQKLKENGYGKIALSSKKVD"
gene 165286..166077
/gene="tonB1"
/locus_tag="DMACINML_00714"
CDS 165286..166077
/gene="tonB1"
/locus_tag="DMACINML_00714"
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/inference="similar to AA sequence:RefSeq:CAL34350.1"
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/product="TonB transport protein"
/protein_id="Prokka:DMACINML_00714"
/translation="MKSSVIFGFVSSLVLHALVLMFFLFSFYTQEKSSGVDFKQGVF
TSIMMVSELPIGELKEVSIDQKKSNSQDKNKKQDEKMSLNSQDKNKKQDEKMSLNSQD
KNAVLKAQKKIEKQDENQAQKEIANASENSKFKNETLSAPLQSNEDKTQTIVSGNAKE
QIKSYQALLMAHLAKFKYPQEAIMQKQEGVVRIRVSIDESGNVLSKELKKSCPYAVL
NDEVLSLFRASPLPKPPKEMLDGEEKISFVMPIDYNIKDYLGKK"
gene 166133..167353
/locus_tag="DMACINML_00715"
CDS 166133..167353
/locus_tag="DMACINML_00715"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34351.1"
/codon_start=1
/transl_table=11

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FSYLKFWKNKDDNIEGSSQRIQEDTYNFSKIVESLGLSFIRALMTLVAFIPILWTLSD
VVKALFANLSENSSFYFLKNIDGLLVYVALLISLGLLIVSWFVGIKLPGLEYNQKA
EAAFRKELVYAEDNRKEYAKNETMIELFTGLKFNYKRLFLHYGYFNIWLILFEQMIVI
VPFLIMAPGLFAGAIGLIVMQINNAFDQVRSSFSVFITNWTITQLRSIYKRLKEFE
KNIEYAKNKNKNHL"
gene complement(167344..168477)
/gene="ynfM"
/locus_tag="DMACINML_00716"
CDS complement(167344..168477)
/gene="ynfM"
/locus_tag="DMACINML_00716"
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/inference="similar to AA sequence:UniProtKB:P43531"
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/protein_id="Prokka:DMACINML_00716"
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FFSILMMVCAFLFLFFKEHPISLNTQTSLRDFLPIKELRFMVILFCVFTIFFSFQSI
VSFLPFHLKESIKDITQTQIGLVYLGFLTGVISSLLIGKTIEILGSKIRTAIFGLVF
ITGCFMIVGNFYFAFFAMFVFCSGMFISHCIFSGILNSIADKKGLANGIYLTFFYSG
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gene 168589..169950
/locus_tag="DMACINML_00717"
CDS 168589..169950
/locus_tag="DMACINML_00717"
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/transl_table=11
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hemolysin domain protein"
/protein_id="Prokka:DMACINML_00717"
/translation="MDPSQVLDLNQTLPTASFDAGYSILMVVIALALVLLNGFFVLSE
FSIVKVRRSKLEEMVKEKKVGAKKALEVTSRLDYLTSACQLGITLSSALGWIGEPAI
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DEFETEIIIRNAVDFSDTVAKEVMTPRKDMICLNKQKTYAENMQIICDHKHTRFPYIDG
SKDTILGMIHIRDIVQNELSDKSENLDTFVKPLILVPENISISKVLVMMNKERSHTAL
VIDEYGGTAGILTMEDIMEEIIIGEIKSENEEDSYKLAENIYEFQGRCDIETVEEMLL
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DEE"
gene complement(169963..171147)
/locus_tag="DMACINML_00718"
CDS complement(169963..171147)
/locus_tag="DMACINML_00718"
/inference="ab initio prediction:Prodigal:2.6"

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/inference="similar to AA sequence:RefSeq:AAW34772.1"
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MPNLSKYRKIIHHIGDIQGCFSVLKEYLQELKDDECYIFLGDYIDRGIENGKVLKFLK
ICERENVYLLEGNHERHLIKWANGELSSSKEFNENTLKDFRKEKLTTPRDARKFYPLYK
ECLYYKFHEKQVFCSHGGVNFVPSKAYQISFMSSYDFIYGVGNVEESQKVASQFCEFT
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KK"
gene      complement(171156..171365)
          /locus_tag="DMACINML_00719"
CDS      complement(171156..171365)
          /locus_tag="DMACINML_00719"
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          /transl_table=11
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          /protein_id="Prokka:DMACINML_00719"
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gene      complement(171415..172155)
          /locus_tag="DMACINML_00720"
CDS      complement(171415..172155)
          /locus_tag="DMACINML_00720"
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IMMIAVIVAVFVMMMLASKSISNFVDDNPTIKILALAFILVGVTLVAEGLDFHISKTY
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gene      172263..173249
          /locus_tag="DMACINML_00721"
CDS      172263..173249
          /locus_tag="DMACINML_00721"
          /inference="ab initio prediction:Prodigal:2.6"
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          /codon_start=1
          /transl_table=11
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          /protein_id="Prokka:DMACINML_00721"
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EAETYRVTQLLIELGANVNFATPRTPLDDAKGSRNKLLKDAGAMTSNEIRKKFNLPA
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 CDS 173287..174039
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 AARLGSAGGVAMLIDCNPFIRNNDGKTAFNIAVDNDDVYIAKMIDNVKDRWQRKHGRY
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 FINEKMPPVVEILIDQANGDVEALIDGFDEHMEQWENEVWDEPAVYAGKTEDGEDDYR
 YETDPDEWIREIIPFDKWDELKKQMRLYAVKK"
 gene 174254..174469
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 CDS 174254..174469
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 NNYKLITEKLAITWAKLNFLHPFKERQ"
 gene 174679..175611
 /locus_tag="DMACINML_00724"
 CDS 174679..175611
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LOCUS DMACINML_4 166796 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source

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CDS      24194..24616
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          /inference="similar to AA sequence:RefSeq:CAL35683.1"
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gene      complement(24637..26268)
          /locus_tag="DMACINML_00757"
CDS      complement(24637..26268)
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          /inference="similar to AA sequence:RefSeq:CAL35684.1"
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gene      complement(26313..27620)
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CDS      complement(26313..27620)
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ALGILLGSMVFL LINAFFSTEEIAAYAWRIAFFVGGIFGIISIYLRRLQETPIFKQM
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EGSYLQVLGILGITLGGVFMGYLVDKLGLFKICIFFSLVFAFFSCLYFYALYDLKNLV
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 gene 27924..28142
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 CDS 27924..28142
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 CDS 28583..28993
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 NINDKGEKFDEIVKNELKATEVIRIRAIETKLDDDEENILKPMGIKDLLNKSYNLLPE
 AQQNALARKQIYDRDMKKIQCKKDATSKLNYSTTAGAVAATPIPFSDIALILPTQIA

MIVHISSIYNLDFDKESAKKVTLALVGVCAGFGIRLGVGAALKLIPGLGSLAGGAIN
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gene 30235..30651
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CDS 30235..30651
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 IGSIGVAVIAIISLKFKNSEKNSQSPKVAFFVASGIGATTAAGAVGVGLGLATTISAIKI
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gene 30654..30893
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CDS 30654..30893
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gene 30905..31207
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CDS 30905..31207
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 /inference="similar to AA sequence:RefSeq:AAW35817.1"
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gene 31209..32306
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CDS 31209..32306
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 QEKNLEVEDYFLITDLRELVRENFTLIRDKFLANFTTENNHTYAIYGNNYSYPLVVKQ
 KEEINYFYDEINKYYLSVYKNQEYLMQENFIQFIFGKFFYMLHPDSINNLILAELE

LQQNLENPLYDFTSIIIVKYSKTIEYEVYDFAKKIFTKLINQNSHLSSINYSVQGKEFN
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gene 32318..32488
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CDS 32318..32488
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 LISKIISAIKKV"

gene 32490..33350
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CDS 32490..33350
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 IADEKDKLKHFTFSKIKNIHKNNEIFTPKEEFLDQILHDKNIWLDDSKEAIVKLDKNA
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gene 33416..33634
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CDS 33416..33634
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gene 33921..34286
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CDS 33921..34286
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 /locus_tag="DMACINML_00770"
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 /inference="similar to AA sequence:RefSeq:CAL35689.1"
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gene 34296..34688
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CDS   /locus_tag="DMACINML_00771"
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      /gene="rpsK"
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gene 34718..35344
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CDS   /locus_tag="DMACINML_00772"
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gene 35358..36371
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CDS   /locus_tag="DMACINML_00773"
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      /locus_tag="DMACINML_00773"
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AMYKQLSVFDKITNVRSIKIQATSNELENTKLLQNITDLNLSARSYNCLEKAGIVYI
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gene 36375..36728
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 /locus_tag="DMACINML_00774"

CDS 36375..36728
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 /locus_tag="DMACINML_00774"
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 RRGDAAEMAFIEFVA"

gene 36948..37847
 /gene="hisG"
 /locus_tag="DMACINML_00775"

CDS 36948..37847
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gene 37855..39141
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 /locus_tag="DMACINML_00776"

CDS 37855..39141
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 /locus_tag="DMACINML_00776"
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gene 39138..40199
/gene="hisB"
/locus_tag="DMACINML_00777"

CDS 39138..40199
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gene 40196..40783
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/locus_tag="DMACINML_00778"

CDS 40196..40783
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HisH"
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PGVGTAAKAMSNLESFNLTNFIKNTKKPLLGLGICLGMQILGDFSEELDQETLGIMPFT
QKFELPKEYSLPHMGWNEVASSHPLFKGLNGAYFYFVHSYHVVLNDYTIATSDYGVKF
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gene 40780..41508
/locus_tag="DMACINML_00779"

CDS 40780..41508
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phosphoribosylamino)methylideneamino]imidazole-4-

carboxamide isomerase"
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 KGLKHILCTDISRDGTMQGSNAELYELIHKNFPKIHTQASGGVASLEDLKKLKGICSG
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gene 41490..42257
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 /locus_tag="DMACINML_00780"

CDS 41490..42257
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 /locus_tag="DMACINML_00780"
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gene 42260..42883
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CDS 42260..42883
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 /locus_tag="DMACINML_00781"
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gene complement(43500..44663)
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 /locus_tag="DMACINML_00782"

CDS complement(43500..44663)
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 /locus_tag="DMACINML_00782"
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 /codon_start=1
 /transl_table=11

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/product="putative
2,3,4,5-tetrahydropyridine-2-carboxylate
N-succinyltransferase"
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gene complement(44681..45787)
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CDS complement(44681..45787)
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gene 45907..47022
/gene="ispDF"
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CDS 45907..47022
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cytidyltransferase/ 2-C-methyl-D-erythritol
2,4-cyclodiphosphate synthase"
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gene 47019..47906
/locus_tag="DMACINML_00785"

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CDS 47019..47906
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gene 47884..49044
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CDS 47884..49044
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/inference="similar to AA sequence:RefSeq:CAL35706.1"
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gene 49054..49554
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CDS 49054..49554
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gene 49631..49894
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CDS 49631..49894
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gene 49911..50978
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CDS 49911..50978
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gene complement(51009..51764)
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CDS complement(51009..51764)
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VILRKRLRYRVKASFIERGEMFDKIYDEFEKQTGGEGGIKTIRNMLDFHLVKLEFQKG
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gene 51969..54074
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CDS 51969..54074
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/inference="ab initio prediction:SignalP:4.1"
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gene 54034..55035
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CDS 54034..55035
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gene 55032..55811
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CDS 55032..55811
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LFLDEPTSALDLNHAIELLSLCERLIKQNNIAVVAILHDLNLAASFCDKVLFLKEGEI
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gene 55808..56614

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 gene complement(56611..57468)
 CDS /locus_tag="DMACINML_00795"
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 CDS /locus_tag="DMACINML_00796"
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 /locus_tag="DMACINML_00796"
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 gene complement(58886..59905)

CDS /locus_tag="DMACINML_00797"
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gene 60230..60865
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CDS 60230..60865
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gene 60869..61465
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CDS 60869..61465
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gene 61518..62276
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CDS 61518..62276
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gene      62335..62409
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tRNA     62335..62409
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/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Gly(gcc)"
gene     62420..62508
/locus_tag="DMACINML_00802"
tRNA     62420..62508
/locus_tag="DMACINML_00802"
/product="tRNA-Leu"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Leu(taa)"
gene     62530..62603
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tRNA     62530..62603
/locus_tag="DMACINML_00803"
/product="tRNA-Cys"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Cys(gca)"
gene     62635..62722
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tRNA     62635..62722
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/product="tRNA-Ser"
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/note="tRNA-Ser(tga)"
gene     62800..63129
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CDS      62800..63129
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/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 21"
gene     63223..64311
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PFLKWQKQFKLFLKLSMNGSPFGKIVSNELSRTYAHKIRSVIDLLVLGGETIRKDR
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FLKNFKDEMDFLIFQSSSLNDEKNVTMSLNFKPLYRNFLGSDTYGIYEL"
gene 65944..66465
      /locus_tag="DMACINML_00809"
CDS   65944..66465
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NLNNEIFFYQSLKENLFKENDEILISNLGKKIILFRNFTQNSDNFAEAKLKQVLLLTFL
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EFLTQRMKKYTKK"
gene complement(66524..67888)
/gene="tdcG"
/locus_tag="DMACINML_00810"
CDS complement(66524..67888)
/gene="tdcG"
/locus_tag="DMACINML_00810"
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AJA55834.1"
/codon_start=1
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/protein_id="Prokka:DMACINML_00810"
/translation="MSNLNIFKIGVGPSSSHTLGPMLAGNLFCKKIAKKLEKIEKIQI
ILYGSLSLTGKGHLSDKAVIWGLNALEAKNLSAAIQEEVNKNATDKGKINLCGEKELR
FDYEKDLIFSDFLPLHENGMQIQAFNASGEIVDQETYYSIGGGFVLTAEELEKRNKG
ISQGRKKLDIELNNAKQALELCEKRDWDLAELSYRYELQFHTKEEIRSYCLEIWEVM
QEVYYNGTHPNEDYLPGLHLKRRAKGLKERVMTADPMGIIDFISLYAIAIAEENAS
GAKVVTAPTNGACAVIPAVMLYLKNHTIGFNDEKAIIEFLVAMLIGSFYKKNASISGA
EAGCQAEIGSASSMAAGAMATVLGANAFKACNAAEMAMEHHLGLTCDPVGGLVQIPCI
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KTVK"
gene complement(67899..69221)
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CDS complement(67899..69221)
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AVIIFPMVYLSHRALSFRVVSQANGNDKDITHAAEEYFGRGVSIFISVLYFFAIFPICL
AYCVGITNTFESFIYHQFLPLLNSEGVFADIIRAMYEVSAADKGGVVASLFPFYRLLL
AFILVSIFMLIMLFSEELITKVCEWLVPPLCAILFIFSLYLIPQWSFESFSAIPGVKE
FITIVWLTLPVLVFSFNHSPAISTFSLSVKRQYKEHAVEKADQILFRTSTMLLFFVMF
FVISCVLSLSPAELNEARAQNIPVLSYFANKLDNPFISYGGPLIAFLAISSSFFGHYF
GAREGAYGIVRKCKLAGSENPDLLKIAICSTLVMIIMLITAYINPSILVFIESLGG
PIIAAILFLMPIIAIYTVSKMKKFQNKALDAFVFTGVLTIITVIYTF"
gene complement(69491..69907)
/locus_tag="DMACINML_00812"
CDS complement(69491..69907)
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/protein_id="Prokka:DMACINML_00812"
/translation="MKLKLGLAALLGATVLFARDIIVPASELPRNAQDFISKNFKTAQ
IALVKKDIDSYDVTLNDGTEIDFIITGEWKDVDGKYKALPNSILPNIMPKISASSNAQ
IIEVSKEINGYKFELSNQLKIYTDAQGNILGQKFDY"
sig_peptide complement(69851..69907)
/locus_tag="DMACINML_00812"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 19"
gene complement(69976..70713)
/locus_tag="DMACINML_00813"
CDS complement(69976..70713)
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/inference="similar to AA sequence:RefSeq:CAL35724.1"
/note="hypothetical protein Cj1627c"
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VIFSFKNMLITLNLIKNPIPNNEAEYYANFNFMWKDALEQTQKHKAHLLISVLSQSET
KLDQAKLFTQISSVCLQDKHALGFYTGGVLEPKFYIENAKMLEDNRLPVYVNWIIYVSV
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gene 70880..71305
/locus_tag="DMACINML_00814"
CDS 70880..71305
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/codon_start=1
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/protein_id="Prokka:DMACINML_00814"
/translation="MEFLKDYIDLIIIFIILGVMAFIAFWCVIERVLFRRKIDFKNYEN
QEQFDDAISENLTTIYIIYSNAPYIGLLGTVVGIMITFYEMGIAGNIDVKSIVVGLSL
ALKATALGLLVAIPALMAYNALLRKVSLLSNAYKVSUNA"
gene 71298..71687
/locus_tag="DMACINML_00815"
CDS 71298..71687
/locus_tag="DMACINML_00815"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AAW36224.1"
/codon_start=1
/transl_table=11

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SENALSLNNDKLLSISIDENNIFYLDDKTTDLKGLSDAISLHKKTIVELKSDKNAK
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gene 71684..72367
      /gene="tonB2"
CDS   71684..72367
      /gene="tonB2"
      /locus_tag="DMACINML_00816"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CAL35727.1"
      /codon_start=1
      /transl_table=11
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      /protein_id="Prokka:DMACINML_00816"
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TLAMKQFTQNQPTQTPIPTNSEPIQHHPKPKPIKQPIKKTCKAAENQVKPIQAINPIQ
KSTPFIAQTHHTHNQALKNSDAKPTQLTYGKDNHPALEKIQKAIMEQARKNYPRQARK
MRMQGVVEVEFLWKENKSLAELKIIQSSGHNLLDKSALESIRKASAFFPYYQSDLRIV
LPIVYNLKA"
gene  complement(72413..73297)
CDS   complement(72413..73297)
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      /inference="similar to AA sequence:RefSeq:SQE25111.1"
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QISGFKVVFENKQGELMALKISDENYKNLQSHFGSFTNYIARDDGTIRLNGEANEFIA
NWFEKISSEFFNPNSLNKEESNHINVKFHKNTLFESMQNLAFKGEDELSLSANLQTR
LNFAIEKDVNFDGNINEFDVKESLTDILRDIKNASGGSadATKITDPQKSDENDEVK
IKKKKDEKDVKDLLEIAKEKGLSALSADQAKLKASNPQIFEELQNKSLGNLEQNLKK
DLMVQIGNNEAIFVDKRV"
gene  complement(73337..73537)
CDS   complement(73337..73537)
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      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CKH06754.1"
      /codon_start=1
      /transl_table=11
      /product="periplasmic protein"
      /protein_id="Prokka:DMACINML_00818"
      /translation="MRKLLFIALVACFVNSFAYGKTENNNKNSQVRNSCVDYEIRLKQ
CNSLPTQHKRQACRLGLFAACK"
sig_peptide complement(73481..73537)
           /locus_tag="DMACINML_00818"
           /inference="ab initio prediction:SignalP:4.1"
           /note="predicted cleavage at residue 19"

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gene 73670..74653
/locus_tag="DMACINML_00819"

CDS 73670..74653
/locus_tag="DMACINML_00819"
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/transl_table=11
/product="thiamine biosynthesis protein:ExsB"
/protein_id="Prokka:DMACINML_00819"
/translation="MKALALFSGGLDSMLAMKLITSQGIEVKALNINIGFGSTSDKSE
IMKKRAAMVGADFEMIDVRNSYLQKVL FNPQYGYGKHFNPCIDCHAFMFKTALSMLKE
ENASFIITGEVLGQRPM SQRGDAMAKVKKLALDEEDLILRPMC AKNLPLTKPEREGWV
DREKLEGISGRSRKRQLELA AKFGLED FESPGGGCLLTLDSFAKKIRDFIEFDKDMQV
NDAQLLKYGRHLRLPNGAKMIIGRNELE NELLRNLKTPKYEVIELGDLIGAYSLLSAN
ADEKDLELALKIALTYTKHEANKSYELRFKNQNYKSIAFEDKKEINPFFIS"

gene complement(74656..76308)
/gene="fhaC"

CDS complement(74656..76308)
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/locus_tag="DMACINML_00820"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:UniProtKB:P35077"
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FhaC"
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/translation="MRFLKIIIFLLMSFICLSQADDSAKTLNLLDKRQQQLHIQKEFDE
LEKKQQQEKDVYLENQDSEDKIYIFKQIQFKKNDLTMQTNNILKKYINQPLSVSDIY
NMIKELTNFIVSKGYSTSSVTIDGINQERDILFLDLKYGFVGEVYLN GDNNTTRLDFG
MPLKKGDKFN IYDLDTGIENLNNGARDVKI AVKASENYGYSDFINLQSKPPDLILDF
DNSGYKAKGEYKASAYLSLSNIFNLNDSIRFGFIKGLLKDMSQERENVVYANYTLPIQ
SYQLSYSMQYSDNINMIEGYDNSFIKNTDTSLRHKIMLKKILHRTSKDKFSIYANLGI
KDDVNEIDNFRLESSGRYSSIASGVEYSTLAFGGFLFLNLEYEKGIPFLGSKKDSKD
SLYKIEFNKVNFNLSYQKSFYANDGLAFLYQNSSGASYSNESLLYADKFLIGDEYTVR
GFKESSAALDYGAYSNN TIYLQFLNAPKYLRAL EPFVGLDMGYGRDYLLPNKDFLAGV
AFGFRYLNHL SLNL TASKALHKSSNMPSETIPIYLRASVFF"

sig_peptide complement(76249..76308)
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/locus_tag="DMACINML_00820"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 20"

gene complement(76309..81933)
/gene="fhaB"

CDS complement(76309..81933)
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/inference="similar to AA sequence:UniProtKB:P12255"
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/protein_id="Prokka:DMACINML_00821"
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GKFNGDFTEVTSNGRVAIGEKGVMVDGDYFNVISRGRIDLAGSIAHYQSGKNLSDINFI
AGLNKVDLSTPNAPKIVASKQKDEKIDYGDIDGKYLGS MYANTVTLISTEEGVGVRHSG
VIRGIEDVIVKVKDKAEFQAIGVNSNGSVKIDAKDIKTSLINADNIDLKASGKVTNEG
LYKGKQIQINANNFENAKQVNF SQETKIDIFDINEENSKIYADNLALNTLDKTSNFGFI
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GNLYAQNL LHIKSLNDLNINSKLENASSIDLDAKNIYVKNL VASGKELNLHADENLVN
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ANLTGNLEILTEYAQFGQVGYGDTAFKRWNMEVGVTGIVKYNNLLDSKQASIQAGKD
ININTQSQDNARQINNSGKILAQGNIVSFGNIDNKSLSKEISVREVL EQIRVNGFFAE
EYLGSWNTNSTYYFVDRESLLDALKYFSTTQAKDHQRESAWNALKDAAAKNSALNQYF
SLLFGSDYASKRFVPDQKEWNLDAKIVFKAKSEAAIASNGKLDLNAKEYNQDLVSSLD
KNFALVSDLK KATNSQDLILNSIPDLINSGLFTLENKTNNNITYEYTTNTSII DESE
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AKYANENGLNLGQGLAKNQAVDQDMILYVTIKQKGNIMAPMLYLSKETIANNEIKSN
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NIEAKDNVILNAAKSKNSSSSSSLEIAATNKQTAGYHAVDGGTVGEGIEGFVSASHSK
TNETKFTNTNLNANNVNINTGKDFALNGANVKASNDAILNVGGNLEVNSLADSLNSQK
YSALLNVSGTGGLSSNHLVTG SVAGTLGIGYAKTDKTSVTTQSGISAANEINGHVNGN
LNLQGGILNSDSQKGNLLVDGKVTNSKVSVEKSDGATIRLSGGTNQSFGGVVDIDDH
IDKTGGVNSAVNININNNKNHGI STDTQNTTDTQDHSWAGGTINLSSISKIKNGISK
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gene complement(82188..83276)

/gene="aroC"

CDS complement(82188..83276)

/gene="aroC"

/locus_tag="DMACINML_00822"

/EC_number="4.2.3.5"

/inference="ab initio prediction:Prodigal:2.6"

/inference="similar to AA sequence:RefSeq:CAL35731.1"

/codon_start=1

/transl_table=11

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KRGKGSKFATPRKEGDKVQLSGVFE GYTTGHPIAMVVFNENAHSKDYDNLKDLFRPA
HADFTYFHKYGIRDHRGGGRASARES VARVAAGAVAAMLLREFDICVQSGVFGVGRFV
SNLKEEELDFEFAKQSEIFCLDPNLEDEFKNEILGARN SKDSV GASVYTRAKGMLVGL
GEVLYDKLDSKLAHALMGINAVKAVEIGEGINASKMRGSQNN DALKGGEFLSNHSGGI
LGGISNGQDLILKTYFKPTPSIFLKQSSMDKFGNDLEFELKGRHDPVGVGRSVVVA

gene MVRLVLADCLLLHASANLNNLKNAYGVK"
 complement(83276..83950)
 /gene="rnc"
 /locus_tag="DMACINML_00823"
 CDS complement(83276..83950)
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 /locus_tag="DMACINML_00823"
 /EC_number="3.1.26.3"
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 EITQAKLGQTPQYETVRAFQPDHLKQFEIALILNGQELARAIAGNKKEAQQMAAKITL
 EKL GAL"
 gene complement(83937..84377)
 /gene="rnhA"
 /locus_tag="DMACINML_00824"
 CDS complement(83937..84377)
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 /locus_tag="DMACINML_00824"
 /EC_number="3.1.26.-"
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 /inference="similar to AA sequence:RefSeq:CAL35733.1"
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 RMELKAIIEALKALKEPCEISLFTDSNLMVQSINEWLEAWIKKDFKGGKNVDLWKEYI
 NMAKPHKIKAYWVKAHNGHLENERCDTLAREAALKIARENDEKY"
 gene complement(84364..85347)
 /locus_tag="DMACINML_00825"
 CDS complement(84364..85347)
 /locus_tag="DMACINML_00825"
 /inference="ab initio prediction:Prodigal:2.6"
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 LLGCLFELGENVKEEKEFLKALDFLASSLSDEEKKEHILKLQIDNNSMLGRLVFEKYH
 IFLNQDFSSICDILLYKENKAFNLQNKEYFEFFYALGLIEDEKPKDIVFKNSFKMLKI
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 gene 85418..87244
 /gene="dnaG"
 /locus_tag="DMACINML_00826"

CDS 85418..87244
 /gene="dnaG"
 /locus_tag="DMACINML_00826"
 /EC_number="2.7.7.-"
 /inference="ab initio prediction:Prodigal:2.6"
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 PSMHINPTKGFYHCFACKAGGDAFKFVMDYKLSFADAVEKVANLCNFTLSYTKKENE
 NKKELRTILPSLNAYFKSNLKHHEALDYLYKRMLNDQDIKAFELGFAGSSEDSIRLF
 HNEKIPLDAMSVGALKKDENEFFYASFIWRITFPFIYDHKDLLVGGFGRRTLNPVAAK
 YVNSPQNILFDKSRIFYAFNIAKENIAKKKEMIVCEGYMDAIAFHKAGFNNNAVAVLGT
 ALTENHLPLIRRYEAKVILCFDND EAGLNAATRS AFLLSTHKIDGKVALLEGKDPAE
 LVANNQSAKLHTLLEKGM DLGEFYIRRI LSSFSLSALDKQKAL ENIQYTF SLEPLV
 ASSYVSLVSKLLGVDEKLIVLSSNQKSNKTIDFNASFQQTQNHNPKSHITELELLNYL
 KNNPNTHELFIKIGDIRCFKHRV LLEKILEHKSYESD SIREFESKNFSKDL SQIEFLW
 GICKVNLAFLNHINITTPYLALKKQIFTLIEKNFTLLSKNLNDYELIGFLKENLFLK
 NEKDEEKLEALFKNLHRFFSAKNLDIKILKNNSEIDYNEEPF"

gene 87342..87611
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CDS 87342..87611
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 /inference="similar to AA sequence:RefSeq:CAL35736.1"
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 /protein_id="Prokka:DMACINML_00827"
 /translation="MPFSDEELINPVKASLDKSMPLERDGGGLEFLGIKNGVVVYVHL
 IGACKGCASSGTTLKYGLERQLKIDIHPEITIVNLNGGAEDFAKL"

gene 87598..88155
 /locus_tag="DMACINML_00828"

CDS 87598..88155
 /locus_tag="DMACINML_00828"
 /inference="ab initio prediction:Prodigal:2.6"
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gene 88139..89422
 /gene="murE"

CDS 88139..89422
 /gene="murE"
 /locus_tag="DMACINML_00829"
 /EC_number="6.3.2.13"

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/inference="similar to AA sequence:RefSeq:CAL35738.1"
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/product="UDP-N-acetylmuramoylalanyl-D-glutamate--2,
6-diaminopimelate ligase"
/protein_id="Prokka:DMACINML_00829"
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DVEECKLLKIDENIKIIGITGTNGKTTTAAAIYSILLDLGFKCGLCGTRGAFINDEQ
IDEKSLTTSPIKLTLEYLQLATQKKCDFFIMEVSSHALVQNRIEGLNFAAKIFTNITQ
DHLDFHGNFENYKAAKELFFTDESLKFINKDALMIKFNVRNAFTYGIENPSLYQVKAY
SLEDGINAIVALKDQSFHIDSPLLGLFNLYNLLAASACVNELVKPDLKDLEKAISGFG
GVCGRVEQVANGVIVDFAHTPDGIEKVLDTLKNKKLIVVFGAGGDRDKTKRPLMGKIV
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gene 89426..89731
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CDS 89426..89731
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/inference="similar to AA sequence:RefSeq:CAL35739.1"
/note="conserved hypothetical protein Cj1642"
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gene 89728..90819
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CDS 89728..90819
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/inference="similar to AA sequence:RefSeq:CAL35740.1"
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FMKYNDVYWGDIGVDFAVRENKIYVNNVRKSGQFLINDEIISVDGTPFKDIRKLNKI
LFADRGSTLYFQVLRDNVDLNI STEVFADLSKFNLP SNKPKPKPTSFRSNIIGLSVNS
SLVVTRVDAGSKAALAGFMVGDKILRANNVILKDFKELQTL LGTGNDFNILIERKSDK
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gene 90816..91655
/gene="ispA"
/locus_tag="DMACINML_00832"
CDS 90816..91655
/gene="ispA"
/locus_tag="DMACINML_00832"
/EC_number="2.5.1.10"
/inference="ab initio prediction:Prodigal:2.6"
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EELEFLHIHKARLIAAALKMGCEICELDEKESEKIYQIGLKLGLIFQINDDIIDATM
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gene 91665..93563
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CDS 91665..93563
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     /locus_tag="DMACINML_00833"
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HLSHNPKNPTWLNDRDLIFSGGHASALLYSLHLSGYDLSLEDLKNFRQLHSKTPGHP
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YEACSLAGLHKLDNLIIDYSNEISIEGDVSLAFNEDVKMRFESQGFVLSINGHDYE
EIDKALKQAKEANKPCLIIAKTTIAKGAGELEGSHKSHGAPLGEVVIKKAKEKAGFDP
NLSFHIPKAAKIRFESAVELGDLEEAKWKDKLEKSEKELLEKLLNPDFTKINYPDFK
GKDLATRDSNGEILNALAKDLEGLGGSADLAPSNKTELYGMGDFVEGKNIHFIREH
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PTHQPIEQLSTFRAMPNFLTFRPADGVENVKAWQIALNADIPSAFVLSRQKLKALNEP
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      /locus_tag="DMACINML_00834"
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SAFKALPIVILTALLVGVVLAYQAAYQLAQFGANIFIVDLVGISATRELAPLIAAIVI
AGRSASSYTAQIGVMKITDEINAMNTMGFRSFEFIIIPRVMALVIAMPLIVALSDAIS
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gene 94682..95404
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 CDS 95407..96300
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 KSKELFSDKNLKNLEILLNLAQLSATLNENSKTLNHNIANTSCLKGEMAENVLSAK
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 gene 96300..96902
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 SVKEELDKIDIFNVYQSFEKALNFIGNEIVLWINTTLDEK"
 sig_peptide 96300..96356
 /locus_tag="DMACINML_00837"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 19"
 gene 96954..97454

CDS /locus_tag="DMACINML_00838"
 96954..97454
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gene complement(97786..98544)
 /gene="map"

CDS complement(97786..98544)
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 /inference="similar to AA sequence:RefSeq:CAL35748.1"
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 /protein_id="Prokka:DMACINML_00839"
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 EDFILSLGAKPSFKGLYGFPGAICTSLNQVCIHGIPDEKIIKEGDILGLDVGSLIDGY
 YGDAARTIAIGKISSTDEALISCAKDALYHAIDIIREGMRFKELSAALGEFIDSRGFV
 PLRGYCGHGIGRKPHEPEILNYLEKGANAKSGPKIKNGMVFCIEPMICQKDGTPKHF
 NGKWDAGSVDELNSAHYEHCVAIINGRAEILSTL"

gene complement(98554..99297)
 /gene="murI"

CDS complement(98554..99297)
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 /EC_number="5.1.1.3"
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 /inference="similar to AA sequence:RefSeq:CAL35749.1"
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 SAMRHYFKGIETPNALILACTHFPLLANSL SAYFGSKTKLIHSGDAIVEFLKQRQKLL
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gene complement(99299..99760)
 /gene="nlpC"

CDS complement(99299..99760)
 /locus_tag="DMACINML_00841"

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/ transl_table=11
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/ protein_id="Prokka:DMACINML_00841"
/ translation="MRFIFVIMVAFICIGCSLSQNTSHTKINYNVDKETRLRAIANE
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sig_peptide complement(99692..99760)
/ gene="nlpC"
/ locus_tag="DMACINML_00841"
/ inference="ab initio prediction:SignalP:4.1"
/ note="predicted cleavage at residue 23"
gene complement(99769..100938)
/ gene="nhaA2"
CDS / locus_tag="DMACINML_00842"
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/ gene="nhaA2"
/ locus_tag="DMACINML_00842"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35751.1"
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/ transl_table=11
/ product="Na(+)/H(+) antiporter"
/ protein_id="Prokka:DMACINML_00842"
/ translation="MNKVLKLLKALVLEAFGGFLLIICTILALLVQNGSLSEHYREL
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SLAIFDDVGAILIIAIFYTTKLSIFAFIVAGIAIFMMLILNILGITRKSFYFICSIIL
WVSVLKSGVHATLAGIITAFFIPMQTKNGEDFLEGIYESLKFVIAFVILPLFAFANAG
VNLSNIDLNAIFSGVSIIGIFLGLFIGKQLGVFLFSYFAIKFKLASLPQANLKLQYGV
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gene complement(100935..102083)
/ gene="nhaA1"
CDS / locus_tag="DMACINML_00843"
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/ gene="nhaA1"
/ locus_tag="DMACINML_00843"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35752.1"
/ codon_start=1
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/ protein_id="Prokka:DMACINML_00843"
/ translation="MQAVKKIILSETFPGILLIFFTLLALLFKNSSLSVIYTDFFHAN
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FDDLGAIIIIALFYTDQLSTLAIIVCLLCVFILFVLNYFHVTHLPLYVLVGVLLWIAM
LKSGVHATLAGVIAALFIPLDTKNKKPYLHEVHKDLNPWVVYFVILPLFAFANAGIDL
DMHFESIVSPVSMGIMLGLFLGKQLGVFGFCYLAIKLKLAKLPENIKYKFFYGCIL
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 /note="hypothetical protein Cj1656c"
 /codon_start=1
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 ASAPQASSSSGLDIYA"
 gene 102562..104634
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 CDS 102562..104634
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 QMMGIDKNDLAKTNPSSFDTQNETIDDSVSSDLQAAAAMDARLQFILDNISTKFSQAA
 NAFKNKDYQASKDFLNDALFNDYRNTKVEVLINKFTKAGNDQKIQQAIRTLIRQINNT
 NIDEKNLRNDLDSIEEQLFDIFLQIPNSELSNLKIEGFNDETKGKDYTKVSDDIKLAL
 DEILKNYEGFSASIVDDLQAIYLDIFEASGMENKIGAVDSALKLKIESLFSKSVALIK
 ASADKKELEATFNDLEQLIASSVDKIQDSSPYSLFIWALGIILREGLEALIIVVAIVS
 YLVQSGNKNRLNIAYSALFTGIILSFITAFGLSWLFKENAGQSRELIEGITMLIAVFL
 LFYVGFWLLSNAQNKKWVSFIKQGAIDAISNNSAKTLWFTVFLAVYREGAETVLFYQA
 LFFDAKTSTDLSAIFGGLGLGILVLIVLYFLLKAGAIRIPIKQFFYICSYIIFYMIFV
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 /note="predicted cleavage at residue 22"
 gene 104631..105170
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 CDS 104631..105170
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 /locus_tag="DMACINML_00846"
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 /inference="similar to AA sequence:RefSeq:CAL35755.1"
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 /product="periplasmic protein p19"
 /protein_id="Prokka:DMACINML_00846"
 /translation="MIKKFLSVAAAAAISTNLFAGEVPIGDPKELNGMEIAAVYLQP
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sig_peptide 104631..104696
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CDS 105252..106655
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 /inference="similar to AA sequence:RefSeq:CAL35756.1"
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 /protein_id="Prokka:DMACINML_00847"
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 FAFFIAAQFLKTENLIFNFIACLLLSFVLYFWQKIEILSFILLGILSFICIALHY
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 IFIEGDKVLNILLTLMRNSFIETHFLVSVFGKSNYFGVFGIYVYVFFIIFLAFSL
 QIRKKNIVKKQILDIAVRKNEAKNTLINRYFSSVFISCILSFICIILYFFMVSSKPLSI
 DEPTPELLPKNGKIFDVALLRDNKLHRFAYISEQGKVIKIRFFLINKREDRDRSPVAVFD
 ACAICGDMGYIKKEGELICISCNVRIPLPSVGKTGGCNPILPKYDYDGEKITIDVKDV
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gene 106645..107940
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CDS 106645..107940
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 DDSNEIMLGEDFAKNNDLKINDTIKLIKENKISKEVKVVGILLHANPKMSNKIAPLN
 LAQELLEKKGLYASAEVRAFTIPESALSEKVRMGEEKLDQIEYDKWYCSAYVGSIAS
 QISDGLPGADAKALNAISDAQSLVVKKIQSLMAITCIICLIVASIAISSLMSEIHRR
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gene 107930..109048
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CDS 107930..109048
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 /inference="similar to AA sequence:RefSeq:CAL35758.1"
 /codon_start=1
 /transl_table=11
 /product="putative integral membrane protein"
 /protein_id="Prokka:DMACINML_00849"

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GVLGTD FRALKITKPFIEVKEGSFSLSDFDENSAFLGINLSKQLGLKAGNELQIYNP
ENGKTTKLTIKGILLSNDELDSIVLAPLSVVQNLSDTFGIQYANAVVYGNFDEINTKT
KNISNESINAKPISSVSLSEGLVLDKIKALMFLIILVLIIVTTSVNTTSSIIIFSRK
KEIALRLALGAKKSEIFKLFACEYFIISL FASIIIGAFCGIFLANIFGYLIFNASIDFR
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gene      109048..109695
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CDS       109048..109695
          /locus_tag="DMACINML_00850"
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          /inference="similar to AA sequence:RefSeq:CAL35759.1"
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protein"
          /protein_id="Prokka:DMACINML_00850"
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VMLSQYYHSSVDEEDAKAVLEKVGLSHRSLHLSQLSGGEQQRVCIARALINNPEILL
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gene      109692..110180
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CDS       109692..110180
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          /protein_id="Prokka:DMACINML_00851"
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sig_peptide 109692..109748
          /locus_tag="DMACINML_00851"
          /inference="ab initio prediction:SignalP:4.1"
          /note="predicted cleavage at residue 19"
gene      110141..110644
          /locus_tag="DMACINML_00852"
CDS       110141..110644
          /locus_tag="DMACINML_00852"
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          /inference="similar to AA sequence:RefSeq:APA81931.1"
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          /transl_table=11
          /product="putative lipoprotein thioredoxin"
          /protein_id="Prokka:DMACINML_00852"
          /translation="MANFRIQTYL FALITALFFIACDSGENFKALNSDKIYNFSYNGF
EKSLKLDEQTQNFALVFFTKDCGVCKEQIPIQLDLAKNYDFNIFVVLGDAKDAKDAKA
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EIKKLLKI"

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gene complement(110746..111792)
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CDS complement(110746..111792)
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gene complement(111894..112148)
/gene="rpmA"

CDS complement(111894..112148)
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/protein_id="Prokka:DMACINML_00854"
/translation="MAHKKQGQSTQNNRDSIGRRLGVKKFGGEFVRAGNIIIRQRTA
THAGNNVGIGKDHTIFALIDGFVKFERKDKDRKKVSVYPA"

gene complement(112159..112467)
/gene="rplU"

CDS complement(112159..112467)
/gene="rplU"
/locus_tag="DMACINML_00855"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34265.1"
/codon_start=1
/transl_table=11
/product="50S ribosomal protein L21"
/protein_id="Prokka:DMACINML_00855"
/translation="MYAIIKHSGKQYKVSVDLKLDFEASKANIEVSEVLAINDK
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gene complement(112625..113611)
/locus_tag="DMACINML_00856"

CDS complement(112625..113611)
/locus_tag="DMACINML_00856"
/inference="ab initio prediction:Prodigal:2.6"
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/codon_start=1
/transl_table=11

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LPHQRNKFQKVQNGGTGESKEEALNNALIDALSQFKGVSSVNLRQEIQSVDLNFSHL
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YILEFEILDITQAKQSKISYQNNTKASINIAYKLIFYPTRELVFSKTFNTTFTLSGDS
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gene      complement(113611..114234)
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CDS      complement(113611..114234)
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REDFEKTAEIMIDSMLNDPAFANIQPGQRKVIAIGKIINDTPQRIDTDKLSKITIAL
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sig_peptide complement(114169..114234)
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           /inference="ab initio prediction:SignalP:4.1"
           /note="predicted cleavage at residue 22"
gene      complement(114266..115618)
          /locus_tag="DMACINML_00858"
CDS      complement(114266..115618)
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          /inference="similar to AA sequence:RefSeq:CAL34260.1"
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FMDYDYKKAADLLKEVYVLNLEEIEKEFKIFDQYSSSLNPKKLLKYYIFIIYENGLSP
ALDEFSLTLPFIFDDYITTVSIALPILTKRNASYDYLNIANNHQNFTTSNTFFDFDQIV
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sig_peptide complement(115559..115618)
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           /inference="ab initio prediction:SignalP:4.1"
           /note="predicted cleavage at residue 20"
gene      complement(115687..117393)
          /locus_tag="DMACINML_00859"
CDS      complement(115687..117393)
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          /inference="ab initio prediction:Prodigal:2.6"

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/inference="similar to AA sequence:RefSeq:AHY39361.1"
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FLAAAALITWLCKVEPSKILDTSVFKSGMTACICVFGVAWLGNFVAGHEASIKEVA
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gene complement(117409..118815)
/gene="aspA"
CDS /locus_tag="DMACINML_00860"
complement(117409..118815)
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/product="aspartate ammonia-lyase"
/protein_id="Prokka:DMACINML_00860"
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AKAMEHLKAYERKAEFEKDVLMGRTQLQDAVPMTL GREFKTFVMMGEDIQRVLEA
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CDS /locus_tag="DMACINML_00861"
119078..119773
/gene="ung"
/locus_tag="DMACINML_00861"
/EC_number="3.2.2.-"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34257.1"
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/product="uracil-DNA glycosylase"
/protein_id="Prokka:DMACINML_00861"
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AIIYPPSNLTFNAFNL TPLNELKIVLLGQDPYHQPNQAMGLSFSVPYGIKIPPSLLNI
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CDS      119874..120566
          /locus_tag="DMACINML_00862"
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          /inference="similar to AA sequence:RefSeq:CAL34256.1"
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          /protein_id="Prokka:DMACINML_00862"
          /translation="MKTIGIIGGMSFESTITYYKTINEAINNQLGNLNSAKILLYSVN
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gene      complement(120563..120763)
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CDS      complement(120563..120763)
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gene      120894..121517
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CDS      120894..121517
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          /transl_table=11
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protein"
          /protein_id="Prokka:DMACINML_00864"
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FVIVLKGGFRAFILGQNAKEITVFKLKQNEECVICSHCIFETISYNLTLESFDDTQIL
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gene      complement(121598..121702)
          /locus_tag="DMACINML_00865"
CDS      complement(121598..121702)
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          /transl_table=11
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          /translation="MLHALFLLVWPLVIYVSYKFIMLNINQLEKDNKL"

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gene complement(121716..122840)
/gene="cydB"

CDS complement(121716..122840)
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/locus_tag="DMACINML_00866"
/EC_number="1.10.3.-"
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/inference="similar to AA sequence:RefSeq:CAL34255.1"
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/transl_table=11
/product="cytochrome bd oxidase subunit II"
/protein_id="Prokka:DMACINML_00866"
/translation="MFFGLELGGGLQIYWVILSLLGGLLVFMFFVQGGQTLIDELSSD
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NPLRGLELLFNPFNLLGIALVFLSRILGAAYFMNNIKDENIKAKAVKKLSINSILFL
PFFLGFLAWIFIKEGFGVDEKGVSMANVYLYNFDNLIFAILFIIIGVVVLLGMIQ
GSKGCSKTIFTLGFGSVLTVFALFLSIGLSSAFYPSLSDLQSSLTIIHNASSSYTSL
VMAYVSLLPFVLAIVYVWNAMDRVKITREEMKDSEHLY"

gene complement(122840..124402)
/gene="cydA"

CDS complement(122840..124402)
/gene="cydA"
/locus_tag="DMACINML_00867"
/EC_number="1.10.3.-"
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/inference="similar to AA sequence:RefSeq:CAL34254.1"
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FNPDTARNEMQSFFEVAFSPVAISKFLHTIGSGYVISALFVMGISAWFILKGRHIEA
KKSLVVGASFGLVCSVFLFFSGDESAYRVTQTQPMKLAAMEGVYQGEHRAGLVPFGL
NPKKTIDNNEVFLFDITIPYALSILGNRDPNSFVPGIEDLIHGNEDRGIEPMQERID
KGKIAIQALKDYRLAKDNDTMAMAIHKSILEANFKDFGYGYLEKPTDAIPPVALTFY
SFHIMVALGSLFFLLFIATLYLTMANDIEKFRKILWLCLLCIPLGYIAAEAGWIVA
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gene complement(124402..124632)
/locus_tag="DMACINML_00868"

CDS complement(124402..124632)
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/inference="similar to AA sequence:RefSeq:CAL34253.1"
/codon_start=1
/transl_table=11
/product="putative membrane protein. Functional
classification-Membranes, lipoproteins and porins"
/protein_id="Prokka:DMACINML_00868"


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LKLFDVDFVNSIFKNDNEKSNFVIENLIKEK"
gene      125119..126786
          /gene="lctP"
          /locus_tag="DMACINML_00869"
CDS       125119..126786
          /gene="lctP"
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          /protein_id="Prokka:DMACINML_00869"
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ANTAPVAFGAVGIPIIAMANLVGVEAHSVSAMVGRMLVPLSLTIPFFIVFLMDGLKGV
KETFPAILVAALSFTATQFWSSNHLGAELPDIISAIIVSLAVTTIFLKFWKPKNIFRLD
GETHFTEDNTLNFQDVLKAWTPFILLIICIIWTQPWFKAIFDKDGFLSYTSITLQFS
NLTGGILSPSITGIGEAKPLSLGLGIDLINGKTVAQAGTAILLAFLTIAVLRIKAED
AAECFWATLKEMAIPCLTIGLVAFVAFISKNSGMSTTLGLAFAHTGDAFAFFSPIIGW
IGVFLTGSDTSANLLFGTLQQVSAQKLGVSEALFLAANSVGGVVGKMISPQSIATACA
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gene      126939..127676
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CDS       126939..127676
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          /transl_table=11
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          /protein_id="Prokka:DMACINML_00870"
          /translation="MKKVYFYATCLGTAAMQESVLNGIKLLRREGVEVIFKKNQTCCA
QPFSNSGYFNESREIALYNVDLFDKDYPIVPSGSCAGMMSHDYKELFKDRPEFSRVK
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ELVELQYEECCGFGGTFVKEPEISNAMVRNKIKDIQNTGVKYLISGDGGCLLNIDG
TMRRMGLDVKGIHLYEFLFKRLEGERL"
gene      127673..129112
          /locus_tag="DMACINML_00871"
CDS       127673..129112
          /locus_tag="DMACINML_00871"
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HEIGQIFKDKLGAKLENDEPESLNAIARDHLRKDFEGLKLGSGVNFAMSREGAFWLI
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gene 129105..129761
/locus_tag="DMACINML_00872"

CDS 129105..129761
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gene 129948..130670
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gene 130651..131262
/locus_tag="DMACINML_00874"

CDS 130651..131262
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/codon_start=1
/transl_table=11
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/protein_id="Prokka:DMACINML_00874"
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gene complement(131491..132522)
/locus_tag="DMACINML_00875"

CDS complement(131491..132522)
/locus_tag="DMACINML_00875"
/inference="ab initio prediction:Prodigal:2.6"

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gene complement(132636..133532)
/gene="pspA"
/locus_tag="DMACINML_00876"
CDS complement(132636..133532)
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/locus_tag="DMACINML_00876"
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gene complement(133520..134749)
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CDS complement(133520..134749)
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gene 134842..135330
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gene      135333..135815
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          2-amino-4-hydroxy-6-hydroxymethyl dihydropteridine
          pyrophosphokinase"
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gene      135816..137246
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          MMLVGPTGVGKTTTLAKLAFRYAYGDKRYKTGIITLDYRIGAVEQLFQYAKMMKLPI
          IDSIIEPKDLDEAIKSLNCEVILVDTIGNSQYDQNKLAKTKEFLMHSNAEIDVSLVVS
          ANTKHEDLMEIYKNFSFLNIDTLIITKFDETKVFNGIFSLIYETNIPLSFFSTGQVEP
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gene      137239..138105
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CDS 137239..138105
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 IPGESGDEILKYNDKNIYERFLNQASILDELDFLIIDTGAGIGGNILNFLEMSDEVVV
 VTVPDPAAITDAYATIKTTSKTKENLLMLFNVVKNENEALKVFENIKKVADANIKNHL
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gene 138125..138481
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 KKNESKERRKNAKRAA"

gene 138462..139154
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 /locus_tag="DMACINML_00883"

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 /locus_tag="DMACINML_00883"
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 VNDLISIGVEEMIKLSRRYDKEQNDSFWGFARKRVNGAMLDLFLRSLDVMSRNNRKIIK
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gene 139154..140233
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 /locus_tag="DMACINML_00884"

CDS 139154..140233
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 /locus_tag="DMACINML_00884"
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 /inference="similar to AA sequence:RefSeq:CAL34234.1"
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IIMQRLKESWATVTEIYPSIEAKESSPNVQIVSQNEIVIMVVMEIIIGNSSGMVNIC
YPVVHLESILSRANRDIMMGETSAKKSRNKELKTLIGRAEVVYEAILGKTLINVHEF
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gene 140230..141066
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      /locus_tag="DMACINML_00885"
CDS 140230..141066
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     /protein_id="Prokka:DMACINML_00885"
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LVYAVFNIKEGGKIGILAGAVLMSAIGEWMMGEEEEISKNDQLGPDEMDDAAKEAIQNI
SAFSTTLGAQKDIPKMDFEISSCFVAENVDFKDFTKLYFFDVKIEDLEEQISLIVDQ
TLHNILSGKAADDGHAHSSNSSENKGFSEELKNINLIMDVRLPVRVRIGNKKMLLK
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LR"
gene 141134..142279
      /locus_tag="DMACINML_00886"
CDS 141134..142279
     /locus_tag="DMACINML_00886"
     /inference="ab initio prediction:Prodigal:2.6"
     /inference="similar to AA sequence:RefSeq:CDH61953.1"
     /codon_start=1
     /transl_table=11
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gene 142315..143385
      /locus_tag="DMACINML_00887"
CDS 142315..143385
     /locus_tag="DMACINML_00887"
     /inference="ab initio prediction:Prodigal:2.6"
     /inference="similar to AA sequence:RefSeq:CDH61953.1"
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     /transl_table=11
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IAKGGFKNINENEKLSPSFFNFDNTDEKSELLPFNPDILHSAKNTALSWDTSADKYTN
NDGSITMGLLIGFLSNVNTGVTAQPLIAGETTVWGKLQGLDNSLSENEIKELENNKL
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gene 143502..144107
/locus_tag="DMACINML_00888"
CDS 143502..144107
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/inference="similar to AA sequence:RefSeq:ABS44176.1"
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/protein_id="Prokka:DMACINML_00888"
/translation="MDTKISQDLEKFANIPNLKNAITFFGSARLKEDSFYYQEAKKLA
NLCVENGFVSGGGGIMRAANAGAAKCKNDANFIKSVGFNILLPFEQKLNDFVEYN
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QGFDEFVRNSLLKLEVISKGDELKYEITDDLDIINTLKL"
gene 144107..145123
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CDS 144107..145123
/locus_tag="DMACINML_00889"
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/inference="similar to AA sequence:RefSeq:CAL34227.1"
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/transl_table=11
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(5-methylaminomethyl-2-thiouridylate)-methyltransferase"
/protein_id="Prokka:DMACINML_00889"
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EFAKSLGCEKLATGHYARLENNLIRTADESQSYFLASADKEALKYLIFPLGEMKK
EDVKKFASTIEVLKSFATQKESSEICFVEDTYVQVLDQFMDTKIPGEVLDSSGKVVGK
HEGYMHYTIGKRRGFVARGAHEPHFVLKINPKQNQIIVGTKEELKINEFKLNINLFI
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GFIE"
gene complement(145158..146966)
/locus_tag="DMACINML_00890"
CDS complement(145158..146966)
/locus_tag="DMACINML_00890"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AJP34568.1"
/codon_start=1
/transl_table=11
/product="Putative malate transporter Yf1S"

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/protein_id="Prokka:DMACINML_00890"
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ESKIAALNSLALFMSQKDIDEKVNTAISLKSSTGKIDALSGFSNSLIWLIIVSII
ARGVIKTGLGERLAYFISIFGKKTGLIAYSIAFCETILAPVTPSNTARAGAIINPIV
QAIARFSTPEDGTQNKIGTYLSLVNFQANPISSAMFITATAPNPLVVDLVAQATNL
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SEKIMLGVFVLLLLLWAGALGFLFGISLDATSVALLGLSLVLVSGVLTTFGEVLAEKAA
WNTLVWFSALVMMATLLGKLGVTQFLAEALGEFASAMGLGEISIMIFLSLAFLYTHYF
FASTTAHISAMFFVFYSAGLALGAPLLYAFIMIASGNVMMALTHYATGTAPVIFGTG
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gene complement(147482..149119)
/locus_tag="DMACINML_00891"
CDS complement(147482..149119)
/locus_tag="DMACINML_00891"
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/inference="similar to AA sequence:RefSeq:CAL34223.1"
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/protein_id="Prokka:DMACINML_00891"
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FYSTITSQSTNPTQGGYGTGAASSQIVFEQGSPPVASEGEFDVALQGGKFFGVLGADGE
AYYTRNGAFRRDAAGNLVDSYGNFVLGTMNPAFAGVSYSRDRVAGLMDYLNLTGTPVNS
GFTVNSNDVFNIGTTASQGVKVPVNMYPQVQTQNVKWSGSLNNTATTEVVKVDLDP
AKFNVQKTEDGKYIVSGSVSKEDVFSKAGDRILLNFIDNNGVKTSFEATLDENLNFT
SNELDLKGLDPNSIKLETAQISTEQKANKDILESSIYNADGSKSILRLTLERILPQE
GENIQYKAIQIFNSDGEAVGNPTEGSMVFDKNGALLQNNITSIANPDGGTINIDLGT
PYDANKPGSGYSGIYIKEGVAKNIVTQQDQVAEGFFDQYSISDDGSIVAQFSNGKAAI
VGKLLALYNFINEQGLAAMGDNIIFAATANSGDASFIMKDGQVINTAEFKGGFLEQSNVD
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gene complement(149123..149998)
/locus_tag="DMACINML_00892"
CDS complement(149123..149998)
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/inference="similar to AA sequence:RefSeq:CKG56285.1"
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/protein_id="Prokka:DMACINML_00892"
/translation="MLTSSDWTMTNTNTNTNTATATTTSTNTTSDTSSTSSSGLAS
NPATLDKDAFLKLLLIQLHQDPTDPMDSKMLTQTSQLSALEMQQNTNTTMQKMVE
TMQLLSNSFSTSMSTSAIGAIGKMATVSDNKIKLTGSDEIIALKMYLPEDSDENGVTL
EVYDSNNKLVFSEKSGEQSVSQGLFTMEWPGRNNDGVYAGDGEYTKMVYNNKNGEKI
TANYGTYPYIEGIFKEGLAYAKMAGQEVFPDAITEITDYKLSSSSSTGSGSSGSDSSG
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gene complement(150055..152127)
/locus_tag="DMACINML_00893"

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CDS complement(150055..152127)
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 NIKVDRLLDLKATFPNLDKANFFKGAVDNVFKEIINNKLAIHISKNLNQNVLNHTSH
 ANLNQNSKNIKSKDDTSLLSQTLKNLDAIISSEKNEKKDKAEIKNDNVKIQTGETTEL
 KNTSKNLNHSESLKELDQENLTNNDKKLPNQEVQNKEHTKELKNDKNTLLNEPLKDD
 KELKNTNKANAQDLTPSKNNTTQDKLPMQEKVSTQEKTMPQEKVSTQEKTIQLDNKAS
 VQEKPLNNKEGLNQETNNIKNTKDLNQLDKNNLSENPKQVKNENTNFKNTSNKEN
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 NTFNTHYTNKENYQEQGKIQSENTEKNPLDDLNSLVKDLNKISQNNTKNITPKETLQ
 HFSQDLKAAMEQYKAPITKLSITLNPHNLGEVEVTLVQRGNLHINFNSNTNAMNLF I
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 ELVLAKYF"

gene complement(152141..152464)
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CDS complement(152141..152464)
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 /inference="similar to AA sequence:RefSeq:CAL34220.1"
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 /protein_id="Prokka:DMACINML_00894"
 /translation="MSKPLNTEFFIELDTQLINRKSEVLLQVLDLLETLSNQNEKMA
 RISSELTELENEENLEKITNAQNLEELLDILVALNEDKMIKVYENAYLKEKFPHLAS
 SQFLK"

gene 152593..154401
 /gene="typA"
 /locus_tag="DMACINML_00895"

CDS 152593..154401
 /gene="typA"
 /locus_tag="DMACINML_00895"
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 /inference="similar to AA sequence:RefSeq:CAL34219.1"
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 NDIEKERGITILSKNTAINYKGTKINIIDTPGHADFGGEVERVLKMGVLLLVDAQE
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 IVYAAAKNGYAKLDLNDSDNMEPLFKTILERVPAAPSGTNNPLQLQVFTLGYDNFVG
 KIGIARIFNGVVKKNQSVMLAKADGTVNGRISKLIGFMGLEKMDIEEAGSGDIVAIA
 GFEALDVGDSVDPNPNMPLDPLHIEEPTLSIVFSVNDGPLAGTEGKHVTSNKIAERL
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gene 154401..155051
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CDS 154401..155051
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 /EC_number="2.7.7.-"
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 /inference="similar to AA sequence:RefSeq:CAL34218.1"
 /codon_start=1
 /transl_table=11
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 /protein_id="Prokka:DMACINML_00896"
 /translation="MDLKSLNRRLYILKRLGILKFLSIIIEALLVGF LAFVFTKDILI
 AIILAVFVGIFFRFTAKKLLAKKELEFDALNFLRRFGAKFRKESLSQKDFLKLEL
 SDNLKDFKSQNCFEFKEFKIYDIHFIDENKRFFCGILLEILKPSKNPSFEDEEKIYVK
 LQDNFTLNHIFSKDNHYLIATLKNPFFIDLKESLEKNFKNLENNLKLIEEKIIKI"

gene complement(155048..156397)
 /locus_tag="DMACINML_00897"

CDS complement(155048..156397)
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 /note="Uncharacterized protein conserved in bacteria"
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 FSEKFNKEHENEMKIMQEELEKKSKELTEFLSVKAENERLKRQKENEERLKFQAKEE
 AFKEFKEQESKNLEFERDKMRLEFQKSTQEQLKYKELETNFKSVAQKLEDAQRRIEQ
 GSQQQLQGEAAELLIEEYIQNEYIGDEVKEVPKGVNGADCLHIVKDSFGNICGSILYES
 KRTKEFNKEWIDKLLDSIAAKSDIAVLITKMPKEKQKTHFKEGILICTFAEFKGVL
 AVLRESIVNAYKLNALQNKDEKNHILYEYLSKEFNTQITFILKTYQNMKEELEAEK
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gene 156503..157699
 /locus_tag="DMACINML_00898"

CDS 156503..157699
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 LLEYFSWHSIFTTLFALGILLFLMILFGLKESAPHLKNNKFSHEEAMKSYKFLKDKR
 FLTYVFCAALALAAMFAYITGSSVFVFTQFFGLSEQQFGILFGVNALGFVICANINARL
 VRKFESEKILSKALIIMFVSTLILLINAFLYPNLFLFEASIFTSIAMLGFIAPNTTTL

AMARFKDHSGTASAVLGFIQFALAGLISSVVSALDANTPIILACVMCACVLIANGVYF
 QAKRKA"

gene complement(157696..159174)
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CDS complement(157696..159174)
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DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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EGQQKAIERALAYVEAGAEMVFAEAITSL EEEYEFVKNVKVPILANITEFGKTPYFTK
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gene 14954..16081
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CDS   14954..16081
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NAEFEEIAYLLQFGELPNAKEL ENYKEKIIAQRALSENLSVLKAIKPEVHPMNLMQA
AVAALGALEGENEDFSDQDEKII RLLGILPSVLCYWHHYVNFVNGKEIDFDSKQTSIAGY
FLEKLEAPKEDFIKAMQC SLILYAEHEFNASTFTARICASTKSDIFSAAAAIGAL
RGPLHGGANEAMHLIESFKSVEDA IKGVNEKLENKELLMGFGHRVYGLGGDPRNALI
KVWSKHLGGDLLFKISEAIEALMKEKRPSLPPNADFYSASAYHFMGIPTEYFTPIFI
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gene 16091..17545
      /gene="prpD"

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CDS /locus_tag="DMACINML_00921"
 16091..17545
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 /translation="MSDMGILEAKRPEFDELLTKIAKYADEFEITSDLALETARYCLM
 DTIGCGLLALKYPACTKLLGPSVEGAEFRPLGAKVFGTSYQLEPIRGAFNVGAMVRWL
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 LALENCFNKVGMDHVLLVRIASTAVAAKLLGCNFEEIRNAISHAFIDGGALRTYRHAP
 NTGSRKSWAAGDASSRGVDLALKAKTGEMGYPSALSAKFWGYEDVKMKGQKLTIPQEF
 GSYVMENLVFKISFPAEFHAQTAVEAALALHDEVKDRLDQIEKIIITTTQESGHRIINK
 VGELANPADRDHCIQYMVAVPLIFGRLNADDYEDSVASDERIDALRAKMQVEVDDRYT
 KEYLESDKRSIANAVQVFFKDGSTKKVEVEYPIGHKRRRNEGIPLLIKFKANLATR
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gene 17708..18601
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CDS 17708..18601
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 CFVASLILFAILIYMRKLGALLVFIKQKIFTLLLLAFFGFFMLYHFESAAYTSMSVAN
 VVFLVFGVGMIIIFICEALDAKRFFHLNELLAMVFALLGLWMIIFLAEGGTLENFTHLK
 DLVNAILAGLGYALFLFFTRKLLKLGFLIPLCALLFIGSLYLSIPLFGANLNLNFSLE
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 QIVGGVFILFAIFVHEFKLKL"

gene complement(18585..19544)
 /locus_tag="DMACINML_00923"

CDS complement(18585..19544)
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 /product="TPR repeat protein, Sel1 subfamily"
 /protein_id="Prokka:DMACINML_00923"
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 LNQP LKENFALTPKGEYFFESDLSLFQKQCLENNATACAYLGGFEAADTRLSLDL NKA
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 SKKDTKSAILAKKSCEQGHDAICAGLSYMYACQGVEKDLIKAKELSSKICEKDTKL
 CFAQGWVLFNKNDILAQKLFYKSCQAGYADCNMAVDKNSKDQAMQLYLIKITQKNS
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sig_peptide complement(19482..19544)
 /locus_tag="DMACINML_00923"

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/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 21"
gene 19651..22920
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CDS 19651..22920
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     /locus_tag="DMACINML_00924"
     /EC_number="6.3.5.5"
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     /inference="similar to AA sequence:RefSeq:CAL34432.1"
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     /transl_table=11
     /product="carbamoyl-phosphate synthase large chain"
     /protein_id="Prokka:DMACINML_00924"
     /translation="MPKRTDIKNILLIGSGPIVIGQACEFDYSGTQAAKTLKEQGYRV
VLINSPATIMTDPEFADATYIEPVTKESILSIIKKEKIDAILPTMGGQVALNVAMEV
YESGLLGDVKFLGANPEAIKKGEDRQVFKECKMKIGMDLPKSMYAYNYDEALKAVDEI
GFPLMIRASYTLGGAGSGVVYNMDEFKELANAALALSPIHEILIEESLLGWKEYEMEV
IRDKNDNCIIVCSIENLDPMGVHTGDSITVAPALTLTDKEYQVMRNASFAILREIGVD
TGGSNVQFAVNPTNGRMIVIEMNPRVSRSSALASKATGYPIAKVATLLAIGFSLDEIK
NDITGTPASFEPVIDYIVTKIPRFTFEKFPGANTTLGTAMKSVGEVMAIGRTFKESIQ
KALCSLERNLSGFDRVKFEDKNDLIFKIRNANEKRLLYVAQAFREGFDVKELYELCKI
DPWFLSQIKEIVDFEEQIDMDILHNKTLRLKAKTMGFSDKMIALLVNLKDNLELSQND
IYYARMKQKIIAEFSEVDTCCAGEFEALTPYLYSSINVSELTQSKNEARDKKEKKVMII
GGGPNRIGQGIEFDYACVHASFALKDLGVKTIMYNCNPETVSTDYDTSIDILYFEPIDF
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ITKLGINQPKNSTATSVEEAVLKASEIGYPVLRPSYVLGGRAMRVVNSELRLYMQ
EAVDVSDKSPVLIDQYLDNATEIDVDAISDGKDVYVAGIMEHIEEAGIHSGDSACSLP
PCNIDEKMQEQIIQKTANIALNLGVVGLLNIQFAIYNNELMYIEVNPRASRTVPFVSK
ATGIPLAKVATRVMWQGNLKEALKFYDTFDVVNFDNTILRPKLSKHISVKEAVFPFAK
LSGSDLELGPENRSTGEVMGISKDFANSYAKSQISSFNHLPENGVVVISLKEKDKKYA
KKLASEYSKLGFKLMATSGTCKEIVENGFECELVHKISEGRPNVEDKLNKEIQLVIN
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gene 22917..23339
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CDS 22917..23339
     /locus_tag="DMACINML_00925"
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     /inference="similar to AA sequence:RefSeq:CAL34433.1"
     /note="hypothetical protein Cj0280"
     /codon_start=1
     /transl_table=11
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     /translation="MIYLAQDTTGTAGFLSKNLEEINALKGRAKDQPCLITSAKFSELK
KIVRVPNQFKNLVRRAKKTTFIYPNNQAIRIVKECKHAQFLKEKGCIFYSSSANKHGQK
FDELWARSVADVVDIEFFENTPSKIIKLRKLRKIR"
gene complement(23336..24322)
      /gene="tal"
      /locus_tag="DMACINML_00926"
CDS complement(23336..24322)
     /gene="tal"

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SPIYKEKIAKLGKKAKEIYEELAVADIQKAADKLAPLYHTGNDGFISLEIDPRFYDN
TSLSLGEAKKLYSAIGKDNVMIKVPATNASYEVMYELMKNGISVNATLIFSLEQSQKC
FEALNAGLVEFRKNNIALQGKNTLRTPQAVISIFVSRFDRLNLSKAKEQNRIGILNA
NLAYNNIISKNEPNIRALFASTGVKGDDLPKDYIKELLFENSINTAPLDAINAFKTE
FEFKPLMNFIEYTQLNAIISQNEREKACDELLKDGLEQFCIAFEEILQALN"
gene complement(24324..24947)
/gene="serB"
CDS /locus_tag="DMACINML_00927"
complement(24324..24947)
/gene="serB"
/locus_tag="DMACINML_00927"
/EC_number="3.1.3.3"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34435.1"
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/product="putative phosphoserine phosphatase"
/protein_id="Prokka:DMACINML_00927"
/translation="MIKLCVDFDSTLMDGETIDILAKAYGKEKEVVDITHRAMAGEL
DFFESLQERVSFLKGMPYDLVLKIGQDLPLMNGAYELIEFLNSKNIFVWIFSGGFHEG
IDPAMKLLKVNLFANYLHHKNNTLSGLVGGEMMFNSKGLMLQRLKNFLNLQTHEVM
CVGDGANDIAMFNESGLKVAFCAKEILRSKADICIDNKDLKEIIVKI"
gene complement(24947..25468)
CDS /locus_tag="DMACINML_00928"
complement(24947..25468)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ADT65674.1"
/codon_start=1
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PILNIQEIIKPIEYTRVPSVPDYVLGVFNMRGNVMPIDLAQRFNLGSSKMTPQTRYI
VLRGESNGSGVGGNAGFVIDRLTEAIKIHRNRIDPPPETLVKDKGMIYIGIKRDENIL
TILKVEALLKREF"
gene complement(25473..27770)
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CDS /locus_tag="DMACINML_00929"
complement(25473..27770)
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/locus_tag="DMACINML_00929"
/EC_number="2.7.3.-"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34437.1"

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VAHTVKGSSSFLNFDVLTCLTHHMEDVLNKARHGELKITPDIMDVLESIDRMKTLN
SIRDNGNDTAIEMDIGPICARLTAISEGESPSSAKLNETPVETPQKEEPAPAPEPEVD
VNQLSDSEVEAEIERLLKARKAEDQARRAQKKQNAASPTNSKPAASTPKAENTEKKVP
ASGGGGGGMDQTIRVEVKRLDHLMNLIGELVLGKNRLLKIYDDVEERYEGEKFLLELN
QVVSQLSIITTDVQLAVMKTRMQPIAKVFNKFPVVRLDSRELGKHIELEITGEETEL
DKSIVVEIGDPIMHMIRNSCDHGIEDPATRAANGKPEKGIVQLKAYNEGNHIVVEITD
DGKGLDANGLKAKAIEKNLITEREQMTDKEAFALIFKPGFSTATKVTNVSGRGVGM
DVVKTNIEKLNQVIEIDSELGKGSSFKLKIPLTLAIIQSLLVGTQEEYYAIPLASVLE
TVRVPIDDIYTIIEGKNVLRRLRDEVLSLVRLSDVFGVKQVLESGDQTYVVVIGVAESKL
GIIVDTLIGQEEIVIKSMGDYLNQIQGIAGATIRGDGRVTLIIDVGAMMDMAKEIKVD
IKAQLESSAKKPEKPSDYKVLIVDDSKMDRTLQKALEPLGVSLIEATNGVEALNII
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MTEYITKPYSPEYLENVVRKNLKLK"
gene complement(27774..28730)
/gene="cheV"
CDS /locus_tag="DMACINML_00930"
complement(27774..28730)
/gene="cheV"
/locus_tag="DMACINML_00930"
/EC_number="2.7.3.-"
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/protein_id="Prokka:DMACINML_00930"
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IKIPSLTELPGVDPDYIEGIFDLRGVVIPVVNLAKWMQITEPESTMLKPRVIITEFSNI
LIGFIVHEAKRIRRNWKDIEPATFSTGSGALDKGKITGVTRIENDEVLLILDLESV
EDLGIYSPKTDIDFSKIEKFSGSALILDDSMARKRVKEMMQMGFQVIEVKDQVEGL
NKLEELSQIYGENLSSILKIIVSDVEMPQMDGFHFAARIKEDARFKDIPVFNSSLSN
EFMNEKGVHEAGGESYLKFNASDFNEIAKVIKHKHSQEQQ"
gene complement(28723..29358)
/locus_tag="DMACINML_00931"
CDS complement(28723..29358)
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/inference="similar to AA sequence:RefSeq:AAW34924.1"
/note="conserved hypothetical protein"
/codon_start=1
/transl_table=11
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/protein_id="Prokka:DMACINML_00931"
/translation="MGDIFDLLIGEISATHEFAKPYIKLLEELALKMEIYLEGNHDF
NLARFFQRVKIFSLQEQPLKLNLHTSKGKNTDFKNSFITLAHGDIPLSPCLQFTLKS
LNHYLLVFLNQLNQLISSNSISNKILKNQNKKNLFYKIENFKNLAKERYKKGYNLGF
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gene complement(29491..29976)
/gene="greA"

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CDS /locus_tag="DMACINML_00932"
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 /inference="similar to AA sequence:RefSeq:CAL34440.1"
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 /product="transcription elongation factor"
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 /translation="MKKEPMSQFGYDKLSAELKDLKDNQRPVAVVIEIDTARSHGDLKE
 NAEYHAAREKQALIESRIAELSDLIARAQIIDPSSYEHDSVKFGSSVIMDLDTKES
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gene complement(29993..31084)
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CDS complement(29993..31084)
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 /product="ipid-A-disaccharide synthase"
 /protein_id="Prokka:DMACINML_00933"
 /translation="MKNLLVCALEPSANLHLKEVLKAYKEEFGEFKIYGIYDENLCKE
 FALNSKPLYSSHEFSAMGFIEILPLIFKAKRAIKELVNLTLSTMDAVLCIDSPAFNI
 PFAKALKKANSKTKRIYYILPQVWAWKKGRIPVIENHFDVLASILPFDEQFFSKSIYV
 GHPLLDEIKDFKNENDIKILLNKNESEKTIAFLPGSRRSEIKRLMPVFRELSRKFEGE
 KILCVPPFNLERLEIYGDIKDFKIQSNTPQVLKKADFAFICSGTATLEAALVGTGPFVL
 AYKAKAIDIFIARLFVKLKHIGLANIFCDFAGKEALNPEFLQEQVNVNLNLYEAYNKYD
 YKAFFDKVHFLKEYLKFSGAKNLAKILNQ"

gene 31230..32105
 /gene="zupT"

CDS 31230..32105
 /gene="zupT"
 /locus_tag="DMACINML_00934"
 /inference="ab initio prediction:Prodigal:2.6"
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 /product="zinc transporter"
 /protein_id="Prokka:DMACINML_00934"
 /translation="MEFTLDQILVAMALTILAGLSTAIGSVIAFFSRNDNLRILSFGL
 GFSAGVMIIYISFMEILPSAFVDFKYYHSGYGELLALLCFFGGIFLSAIIIDKFIPEDV
 NPHDPKEDLSELKICPLPQKNEKAPAFHAGEPLKKINVKALKRTGIFTALAIAIHNFP
 EGFATFISSLDNLSFGVAIAVAVAIHNIPEGMAVSLPIYHATKDKKKAFIYSALSGIA
 EPMGAIVGAFILPIMNELTLAITFAVVAGIMVFISFDELLPAAKTYDKAHSGLYGLV
 LGMAVMAVSLILLNP"

gene complement(32229..32801)
 /gene="cdtC"

CDS complement(32229..32801)

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/ gene="cdtC"
/ locus_tag="DMACINML_00935"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL34250.1"
/ codon_start=1
/ transl_table=11
/ product="cytolethal distending toxin C"
/ protein_id="Prokka:DMACINML_00935"
/ translation="MKKIFILFFALLSFLKAGPSLDELEDFTPMFAIRSLETGISLSP
FRKTSKRLEDQNWFLKEIVPSEELKAKDMHAKDLPFGYVQFVSPKGGDDICLAVLSEKS
FGTKSCKQLDQKKMQTIFSIIPMTNGSIQIRSLINGGNQCMSTFPDSSIAIENRFLG
GECLLDRSIVTELSKLFFFSPAIIIEASVIY"
sig_peptide complement(32733..32801)
/ gene="cdtC"
/ locus_tag="DMACINML_00935"
/ inference="ab initio prediction:SignalP:4.1"
/ note="predicted cleavage at residue 23"
gene complement(32811..33614)
/ gene="cdtB"
/ locus_tag="DMACINML_00936"
CDS complement(32811..33614)
/ gene="cdtB"
/ locus_tag="DMACINML_00936"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL34251.1"
/ codon_start=1
/ transl_table=11
/ product="cytolethal distending toxin B"
/ protein_id="Prokka:DMACINML_00936"
/ translation="MKKIVFLILSFNVLFAALENYNTGTWNLQGSSAATESKWNVSIR
QLITGANPMDVLAVQEAGVLPSTAMMTPRQVQPVGVGPIIHEYIWNLGSVSRPSSVYI
YYSRVDVGANRVNLAIVSRVQADEVFVLPPTVASRPIIGIRIGNDAFFNIHALASGG
NDAGAIVAAVDMFFRNRPEINWMILGDFNRESGALVTLDDPDLRARTRVVVPPSSTQT
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sig_peptide complement(33564..33614)
/ gene="cdtB"
/ locus_tag="DMACINML_00936"
/ inference="ab initio prediction:SignalP:4.1"
/ note="predicted cleavage at residue 17"
gene complement(33639..34415)
/ gene="cdtA"
/ locus_tag="DMACINML_00937"
CDS complement(33639..34415)
/ gene="cdtA"
/ locus_tag="DMACINML_00937"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL34252.1"
/ codon_start=1
/ transl_table=11
/ product="cytolethal distending toxin A"
/ protein_id="Prokka:DMACINML_00937"
/ translation="MQKIKLSFMFLIVTIIIFSACSSKEQQINPLGRSYGKFSNDPLR
LGSKPTPPVKQNTPSLVEGKKFPAIPLVPPVITPNTFKGDNAVKGPLPRLKSPNEFAS
NALYENTGMVSDFVTIMNPNNGASLTIWALNPGNWIWGYSLFASRPFGDARAWQLIEFP

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NNTVMIKNAKTFTCLNAYRNGIVHYPCDQTNFAQFWRLYPMTNGAYQIQNFATQQCIQ
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 /gene="cdtA"
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 /inference="ab initio prediction:SignalP:4.1"
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 gene 34938..35714
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 CDS 34938..35714
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 /locus_tag="DMACINML_00938"
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 SHSITLTKPLRFIKVGRFYKLDGTPADCVYLALHALYKTRLPDLVISGINKGANVG
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 LGKKEFLNINFPKSNIKGIKICKAGKRVYNFEAHSNINPRGMEYYWLAAANLDFEDE
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 gene 35707..36363
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 CDS 35707..36363
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 /inference="ab initio prediction:Prodigal:2.6"
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 /product="tRNA cyclic N6-threonylcarbamoyladenine(37)
 synthase TcdA"
 /protein_id="Prokka:DMACINML_00939"
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 GFQNLTLIDADKFEITNQNRQIHSNENLGEKAKVFARIYNAKGIVSKIDNEFLANFDL
 SEFDLIVDAIDDIPAKVALANLIDFKRQIFISSTGGARKLDPTRIKTTSIFKTHGDAL
 AKKFRYELRKSGFKGNFVDFVFSDEEAHCKDLGSFMGVTASFGLVLASLALRKVLDKKS
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 gene 36347..36805
 /locus_tag="DMACINML_00940"
 CDS 36347..36805
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 /product="putative acetyltransferase"
 /protein_id="Prokka:DMACINML_00940"
 /translation="MIRKADIKDLNACLSLFEQSVITLCAKDYTKDQIRAWIKIDRRQ
 WEEKFKYDEIFLYEKRGEIASFISVKKEQQLLDLLFTHPDFVRQGLAQNLLDFILKTY

gene LHNEIYTFASLSAKDFFLKNGFELIRENKVIKEGQNLKNFLMKKDVVYKN"
 complement(36917..37297)
 /gene="panD"
 CDS /locus_tag="DMACINML_00941"
 complement(36917..37297)
 /gene="panD"
 /locus_tag="DMACINML_00941"
 /EC_number="4.1.1.11"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34447.1"
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 /transl_table=11
 /product="aspartate 1-decarboxylase precursor"
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 gene complement(37294..38142)
 /gene="panC"
 CDS /locus_tag="DMACINML_00942"
 complement(37294..38142)
 /gene="panC"
 /locus_tag="DMACINML_00942"
 /EC_number="6.3.2.1"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34448.1"
 /codon_start=1
 /transl_table=11
 /product="pantoate--beta-alanine ligase"
 /protein_id="Prokka:DMACINML_00942"
 /translation="MEVITSVKEAKQITKNWKSHNLSIGYVPTMGFLHDGHLSLIKNA
 KTQDKVIVSIFVNPMPQFPNEDFSSYPRDLERDIKMCQDNGVDMVFIPDAAQMYLKNF
 STYVDMNTITDKLCGAKRPGHFRGVCTVLAKFFNINLPDIVYMGQKDAQCVVVRHMV
 DDLNFDLKIQCPIIREDGLAKSSRNVLSEEERKASLAISQSIFLAEKLVQEGEKD
 SSKIIQAMKDILEKEKLIKIDYIELVDFNTMENIENIADNVLGAVAAVFGKTRLIDNF
 LVQGLK"
 gene complement(38153..38977)
 /gene="panB"
 CDS /locus_tag="DMACINML_00943"
 complement(38153..38977)
 /gene="panB"
 /locus_tag="DMACINML_00943"
 /EC_number="2.1.2.11"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34449.1"
 /codon_start=1
 /transl_table=11
 /product="3-methyl-2-oxobutanoate
 hydroxymethyltransferase"
 /protein_id="Prokka:DMACINML_00943"
 /translation="MRKSMISFLEKKAKNEKITMVSAYDYHSARILDNSDIDIILVGD
 SLAMTVLGMQDTLSVTMDEMLIFTKAVSRGAKKSFVLADMPFMSYQSSDRDAILNASR
 FIKESHANGVKVEGGVEIASKIKLISQSGIPVVAHLGLTPQAVNMLGGYRVQGGKDLQS
 AQKIIDDAKAVQDSGACMLVLECPVKLAQKISSILEIPTIGIGSGKYCDGQVLVYHD

gene LGLLNKDFKAKFVKHFDKIDPQVGVEKYRDEVKSGIFPSQEHSFDYLDELDDKLY"
 complement(39332..39709)
 /locus_tag="DMACINML_00944"
 CDS complement(39332..39709)
 /locus_tag="DMACINML_00944"
 /inference="ab initio prediction:Prodigal:2.6"
 /codon_start=1
 /transl_table=11
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 /protein_id="Prokka:DMACINML_00944"
 /translation="MKFYNVITMVIFILFFAGCSVSGMITADHNGKMYWVPADCPRYK
 YFYNEPDKLICTDSNGIETGRILYPADEQQIANRYEQQRQDEISQRNMEQLHQNTEN
 LKEINRHFYENFMPKRHNVIHY"
 gene 39799..40050
 /locus_tag="DMACINML_00945"
 CDS 39799..40050
 /locus_tag="DMACINML_00945"
 /inference="ab initio prediction:Prodigal:2.6"
 /codon_start=1
 /transl_table=11
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 /protein_id="Prokka:DMACINML_00945"
 /translation="MKDDFSNSSEEEILNFYKKVSSNIRKFKREKKGISQLELALDIGI
 KSVAFYSNCECNRYGKHFNLHLYKISKSLIPLKDLLE"
 gene complement(40146..41030)
 /gene="modC"
 CDS complement(40146..41030)
 /gene="modC"
 /locus_tag="DMACINML_00946"
 /EC_number="3.6.3.29"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:EAQ73357.1"
 /codon_start=1
 /transl_table=11
 /product="molybdenum ABC transporter, ATP-binding protein"
 /protein_id="Prokka:DMACINML_00946"
 /translation="MIKIDIKLPINTAKGKKQLELNTCLKANEITAIFGESGAGKTTL
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 LDFKMRSFLQDELVKILQHFKITLLVSHDLAEIYKLSHRILELSDGKIIKDARTNEF
 FTSSNLSAKLRLSATLLEMKSDILVIFTLLLNQDIVKITLSEEEFLRSYKDIKIGDT
 LLSIKAFNPPIIVGKLDK"
 gene complement(41039..41707)
 /gene="modB"
 CDS complement(41039..41707)
 /gene="modB"
 /locus_tag="DMACINML_00947"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AAW34935.1"
 /codon_start=1
 /transl_table=11
 /product="molybdenum ABC transporter, permease protein"

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/protein_id="Prokka:DMACINML_00947"
/translation="MDNDFLQTLYLTFKLAFITTFILFFIGVFLAYLLSFVKFPFKSL
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KIAL"
gene      complement(41700..42101)
          /locus_tag="DMACINML_00948"
CDS       complement(41700..42101)
          /locus_tag="DMACINML_00948"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:AAW34936.1"
          /codon_start=1
          /transl_table=11
          /product="TOBE domain protein"
          /protein_id="Prokka:DMACINML_00948"
          /translation="MNILNGKIIELLNEGEIVIVKISIKEQIFKVLMLDLHSLQDLKI
GTKIQVLFKEHELGFALPHSILSVENSFLARIKSIKKGKILYHIFDFDKGDEISSIIT
KEKALELKLEEGQEWLFCVKENDIILKAVYG"
gene      complement(42098..42847)
          /gene="modA"
          /locus_tag="DMACINML_00949"
CDS       complement(42098..42847)
          /gene="modA"
          /locus_tag="DMACINML_00949"
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          /inference="similar to AA sequence:RefSeq:AAW34937.1"
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          /transl_table=11
          /product="molybdenum ABC transporter, periplasmic
molybdenum-binding protein"
          /protein_id="Prokka:DMACINML_00949"
          /translation="MKKLVLFCFIVLFLSLNLNAQNLSVFASSASKAMEEVKNEFLKS
HPNDNIDL VFGASGKYQQLKQGREFDLFFSADTKYAQAIYEDQNALDKPKVYVLGIL
ALYSLDESLLGGIEKLDKANKIHHLNLANPKVAPYVAAKEVLENLNDKLFEDKI
VLGENISVPVLHVDSNNADLGIVAYSLVSSINHPKGAVIDQKYFTPLKQSYVITKY
AKDKKLAFEFSDFISSQKAKEIFKKGFDTP"
sig_peptide complement(42788..42847)
          /gene="modA"
          /locus_tag="DMACINML_00949"
          /inference="ab initio prediction:SignalP:4.1"
          /note="predicted cleavage at residue 20"
gene      complement(42901..43587)
          /locus_tag="DMACINML_00950"
CDS       complement(42901..43587)
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          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:AAW34938.1"
          /codon_start=1
          /transl_table=11
          /product="biotin biosynthesis protein BioC"
          /protein_id="Prokka:DMACINML_00950"
          /translation="MNFLKAKDYQKHAKVQDLMLGLKCEILKNLEISHFKKVFEGCG
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QWLDLKQVLPPTLANMLNEKGILLSTFGEMNLKEIKQSTGLGLKYFSTKELEQIFKPY
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gene complement(43584..44195)
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CDS complement(43584..44195)
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 /inference="similar to AA sequence:RefSeq:AAW34939.1"
 /note="conserved hypothetical protein"
 /codon_start=1
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 ENLDFKFDLNSFSKITLIAFSMGVCVASRVLKDIEFSQKIAINGTPFGIDKLGKIH
 IFARQIKKFDLTFKSLFKERENEAKDFIFKDEKDLKTELEKLFEFALKERNESFIW
 DKIIYSSNDEIFPQNALKNTFSKLIFLNPHFAFFHFKTWDEI"

gene complement(44192..45334)
 /gene="bioF"

CDS complement(44192..45334)
 /gene="bioF"
 /locus_tag="DMACINML_00952"
 /EC_number="2.3.1.47"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AAW34940.1"
 /codon_start=1
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 /product="8-amino-7-oxononanoate synthase"
 /protein_id="Prokka:DMACINML_00952"
 /translation="MSLENILETLEKNHNLKLTSLKHEGNFVFKEGKLLNLAGNDY
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 QKHYDHYENIIILSEALFSMDGDFSDFNLI AFKEKYPKIKLYIDEAHSVGCDFDEGL
 GLVKALNLEEKVDFIVFTFGKALASMGACMICKNLYKSFFINKARAFIYSTALPPINI
 AWTKFIFEKMSSELKEKREKLQIIGNFFKNQLIEKNHQILGDAYIISLVLGENQKAIEL
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gene 45401..46684
 /locus_tag="DMACINML_00953"

CDS 45401..46684
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AMP64640.1"
 /codon_start=1
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 aminotransferase BioA"
 /protein_id="Prokka:DMACINML_00953"
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 DKAYMDCVSSWWVNLFGHCNEKIANAIKKQVDELEHVILAGFTHEPIIKLSARLCEKV
 GRNFKCFYADNGSSAIEVALKMSFHYHLNKGVKKSKFLSLSNSYHGETLGALSVGDV
 ALYKDTYKPLLLLECLSTPVPQSKDYTQELEILKDILEKNASEICAFIPLVQCAGNM
 HMYEAGFIDEAIKLCHQFGVQVIFDEIAVGFGRGTGSLFALHQCKESPDIKLSKGITG

GFMPLSVLTRDEIYNFYDTYESQKAF LSHSYTGNTLACAAANAVLDIFENENILE
 KNQILSEFIKKEFSRLEKFDLGNFRTCGMISAFDILSTKYKRVGLFVFRKALEKGLL
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gene complement(46658..47230)
 /locus_tag="DMACINML_00954"

CDS complement(46658..47230)
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:APA48630.1"
 /codon_start=1
 /transl_table=11
 /product="dethiobiotin synthase"
 /protein_id="Prokka:DMACINML_00954"
 /translation="MKIYISGIDTDVGKTYLSARICKELGFDYFKLIQAGVPKDSDEV
 AKFSPKTKIFKEGVCLQTPASPHKARILEKLNKAFDIQIPQSDKLIIELAGGLFSPI
 DDEKTMIDYMSEFKHPTLLVAKDYLG SINHTLLSIEALKQRGIEILALVLKSEDHFSK
 DFISKYTQIPIVEFDDRVCENLSKILKNLL"

gene complement(47238..47552)
 /locus_tag="DMACINML_00955"

CDS complement(47238..47552)
 /locus_tag="DMACINML_00955"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34460.1"
 /codon_start=1
 /transl_table=11
 /product="putative efflux protein"
 /protein_id="Prokka:DMACINML_00955"
 /translation="MEWIFLFIAAIFEV LGVIVMKQLVLTKNKFYLLIFIICFALSFS
 FLSLSMQNIAMTVAYS IWTGAGTAGGVIVGVLFYKESKSF LKFLIALIIACTVGLKI
 LS"

gene complement(47554..47883)
 /locus_tag="DMACINML_00956"

CDS complement(47554..47883)
 /locus_tag="DMACINML_00956"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ABV51886.1"
 /codon_start=1
 /transl_table=11
 /product="multidrug resistance protein, SMR family"
 /protein_id="Prokka:DMACINML_00956"
 /translation="MNTNIAWFMVIFGGLIECFWVGGLKYSTELWQYILTIIGICISF
 ICLFKACEKLEVSIAYSV FVGIGTVGIVLNEIFLFDIEVSVAKIVLIALILLSTIGLK
 FTSKESK"

gene 48017..48553
 /gene="rplY"

CDS 48017..48553
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 /locus_tag="DMACINML_00957"
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 /inference="similar to AA sequence:RefSeq:CAL34462.1"
 /codon_start=1
 /transl_table=11
 /product="putative 50S ribosomal protein L25 (general

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stress protein Ctc)"
/protein_id="Prokka:DMACINML_00957"
/translation="MLEGIVRESIGRKAALKRDKGYLIANIYKGLENINAAFKVND
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gene 48550..49092
      /gene="pth"
CDS   /locus_tag="DMACINML_00958"
      48550..49092
      /gene="pth"
      /locus_tag="DMACINML_00958"
      /EC_number="3.1.1.29"
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      /inference="similar to AA sequence:RefSeq:CAL34463.1"
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      /protein_id="Prokka:DMACINML_00958"
      /translation="MILVVGLGNIGKEYENTRHNVGFMLVDLLLKEGNFTNLTNSKFK
GELFKMGSSFLKPTYMNSGLSVKAVNDFYKCERIIIVHDDIDINLGALRFKKGGS
SGGHNGLKSIDNLGSDYERVRIGVGKGENVISHVLGKFRAGEEELILSKVLEHSSKAL
LELIRNDDLSAISKYSLKA"
gene 49094..50152
      /locus_tag="DMACINML_00959"
CDS   49094..50152
      /locus_tag="DMACINML_00959"
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      /protein_id="Prokka:DMACINML_00959"
      /translation="MWIFFRFISGIYLKNFFIIFLSLLGFYCGIDLLNFNDLPDAAN
LSLLYVIFLAFSAITYVLPVSLIFALVLSLVMIRANEFVSLYALGLSKNLVILFPFL
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STAQNIKIFNIKDLNLSSFIEAKSGVFEKKNWTLKEGNLTLLPKEYELGDKGLNISEF
KELDTLEGFKPKIIEGVASNSDYSILDILESELEFKTQNISIEALKINLYKLVFMPFF
APFLMLIMYYFFPVIARFFNLAFVAFVAVVTTLLTWGMLFLLSRLSENGVILSELGIV
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gene 50194..51402
      /gene="lysA"
CDS   /locus_tag="DMACINML_00960"
      50194..51402
      /gene="lysA"
      /locus_tag="DMACINML_00960"
      /EC_number="4.1.1.20"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CAL34465.1"
      /codon_start=1
      /transl_table=11
      /product="diaminopimelate decarboxylase"
      /protein_id="Prokka:DMACINML_00960"
      /translation="MDYKCLKDEFQTPFYIYDFDFIKERFLRLKNAFKARKSQIFYAV

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 DLARKMYLYAKNSPHLEPIGVHFIHGSQLLDISPIHEAATIVAKLVRELKALQIELKF
 FDIGGGLGVRYEKEDIEPDLYDYAQGILAQHLGLDVTIGMEPGRFLVANSGEFVCSVL
 YEKHNKTRKFVIVDGAMNDLIRPSLYEAYHEILLPYNQGEESLCDVVGICESGDFFA
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 IALEEQFLKG"

gene 51404..52171
 /locus_tag="DMACINML_00961"

CDS 51404..52171
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 /inference="similar to AA sequence:RefSeq:CAL34466.1"
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 /product="putative HAD-superfamily hydrolase, subfamily
 IIA"
 /protein_id="Prokka:DMACINML_00961"
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 NPMAVLVASYDDFKFQDFALMMEYAKEGVQFIAMHESSIYKKEGRLYPGVGSIMAMLQ
 NAIDFKYQVVGK PSTAFYKEALRLLRNYNKNADFEDIKIISDDLKGD LVQAKELGMKT
 LLVLSGKISDTKGFDTGMVDKIYPSVLEILKDLKCQI"

gene 52159..53241
 /gene="pheA"

CDS 52159..53241
 /gene="pheA"
 /locus_tag="DMACINML_00962"
 /EC_number="4.2.1.51"
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 /inference="similar to AA sequence:RefSeq:CAL34467.1"
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 /protein_id="Prokka:DMACINML_00962"
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 IYRPERERAIINRLKNANLGLLDQNAIEAIYQEIFA VSRNLEMPQIVAYLGP EGTYTH
 QAARSFRGAMSRYIALATIEDVFKELNNKEAKYGVVPIENNTEGAVGVTLDCLGKYNE
 LKIFGEIYMDIHHSFVGINENLKEIKRIYSH PQGYNQCRKFLESHEL SNIEFVPSKST
 ANAAYLASQDKYSA AICSKIAAKLYNVPVLFDKIEDNAANRTRFLILSDIKNPKMPNC
 KTSILAHTAHKPGGLS LLEQFKKENINLTKLESRPVKSKEFLHSFYIDFEGHIDDEN
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gene 53228..54322
 /gene="hisC"

CDS 53228..54322
 /gene="hisC"
 /locus_tag="DMACINML_00963"
 /EC_number="2.6.1.9"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34468.1"
 /codon_start=1
 /transl_table=11

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/product="histidinol-phosphate aminotransferase"
/protein_id="Prokka:DMACINML_00963"
/translation="MKFNNFLNHLSNYEPGKDIEVIAREYGVKEVIKLASNENPFGAP
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PNNPLGECLDANEVLEFIRAIDENCLVIIDAAYNEFASFQDNKYLKPCDLVQEFKNV
LYLGTFSKLYGLGGLRIGYGIANAIEISAFYKLRAPFNVSNLALKAAVAALHDEEFTK
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gene 54409..56091
      /gene="fliF"
CDS   /locus_tag="DMACINML_00964"
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      /gene="fliF"
      /locus_tag="DMACINML_00964"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CAL34469.1"
      /codon_start=1
      /transl_table=11
      /product="flagellar M-ring protein"
      /protein_id="Prokka:DMACINML_00964"
      /translation="MDFKNMLHQIGQLYQNLTRKQRIVIAASIVVVVGLVFLALFRG
SGSSANNGYAVLVDNVPSSSAIIVAKLEQNSVPYILESESKILVPQDQVYRQRMFIA
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PKDSVFTERQIPPTASVVVNVREGLKLRKQIDGIKNIVSAAIPKLTKENVRISDQSG
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KNQVTTNNELSKITITNTKKQFATVVRTSAAVTIDGKYQDVVDENGDKSEYVPLSKEE
LASVESIVKNTINFSANRGDSVVVQNL PFHRESIRVESKVKTFYNRFI EPFIPPVKYF
IAAILLFIFYKKIIAPFAQKML EDVAAQEEVQQGPSAVLDDAEDALEKFNAARKKVEE
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CDS   /locus_tag="DMACINML_00965"
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      /locus_tag="DMACINML_00965"
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      /inference="similar to AA sequence:RefSeq:CAL34470.1"
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      /transl_table=11
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      /protein_id="Prokka:DMACINML_00965"
      /translation="MIKLSEEQKMVYDDLSPMEKVAIFLIQLGEDATTSVFSHMEIDV
ITEISRYIAMAKNVDRAVATAVLEEFYTL LQSNQYIKSGGLEYAKEILFRTFGPEIAN
KILEKLTSMENNQNFA YLAQIKPQQLADFITKEHPQTIALILAHMDSIHAAETLEYF
SDELRAE VVIRMANLGDISP SIIKRVS AVLESKLESLTSYKVEVGGPRAVAEVLNRLG
QKASKSTITYIEQSDERLAETIKELMFTFDDIQKLSTQAI REILKVADKRDLMIGLKG
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GDADEMIE"
gene 57127..57960
      /gene="fliH"
CDS   /locus_tag="DMACINML_00966"
      57127..57960

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/gene="fliH"
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34471.1"
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/product="putative flagellar assembly protein"
/protein_id="Prokka:DMACINML_00966"
/translation="MVNRSNVISGGTSDQHVVVEGYRFKVISEFDNHTEEKQHPQISNE
DNSAALPSKDENPINESQTPAPSQVVQEVQTPAFQPSFVEDLLKKTDEMSSNIIKLQM
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VNLNTFIEKNEKELADTAIDIAKEVILKELENNSSKIAYALAKDLINELKGAGSIEIK
VNSVDYNYLKEHFSENSHIKITLDDAISKGSVIIILSDSGNIESNLNARLIKIKKMVNN
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/locus_tag="DMACINML_00967"
/EC_number="2.2.1.7"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34472.1"
/codon_start=1
/transl_table=11
/product="L-deoxy-D-xylulose-5-phosphate synthase"
/protein_id="Prokka:DMACINML_00967"
/translation="MNEIIKKDYQFAYTKEQLEKLNLTQLEDLAARIREKIIDVVSKN
GGHLSSNLGAVELTIAMHTVFDNRVDPLIFDVSHQSYTHKLLSGKENVFESLRQFGGL
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NELGDSKFPCVILNDNEMSISKPIGAISKYLSQAMATQFYQNFKKRVAKMLDALPDS
ATYMAKRFEESFKLITPGLLFEELGLEIYIGPIDGHNLSEVISALKQAKAMQKPCIHA
QTLKGGYSLAEGKNAKWHGVSAFDVDSGESIKKPKDAKNSATEIFSKVLFDLATKYKN
IVGITAAMPSTGLEKLEIEQYPDRFWDVIGIAEQHAVTSMAAMAKEGFKPFIAIYSTFL
QRAYDQVIHDCAIMNLNVVFMDRAGIVGEDGETHQGVFDVSLAPLPLNLTLVAPRDE
LMMKNIMEYAYIHEGCLAFRYPRGSFILDEEFNPSKIELGKAQWLKVNQSNIAFLGYG
QGVGKAWKVLRLQDEGQANLIDLIFAKPLDELLKELAKQSQIWFVFSENARIGGV
ASLLESFVQKNDLKIKIVSFEYEDNFIHGKTNEVEKALKLDIDSLVQRVKTN"
gene 59966..60376
/gene="perR_1"
/locus_tag="DMACINML_00968"
CDS 59966..60376
/gene="perR_1"
/locus_tag="DMACINML_00968"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34473.1"
/codon_start=1
/transl_table=11
/product="peroxide stress regulator"
/protein_id="Prokka:DMACINML_00968"
/translation="MELLQILKKHELKATPQRLCVLKILKRHEHPNIEELYEEIKKEY
PSISLATVYKNLNTLQEQGLVEINVANQKTCYDIYEERHIHIICSKCGNIEDMSFQN
AELDEYQEKLEKMGNIIDHLAVCAHVSTCKKCH"
gene 60422..61624

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CDS /locus_tag="DMACINML_00969"
 60422..61624
 /locus_tag="DMACINML_00969"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34474.1"
 /note="hypothetical protein Cj0323"
 /codon_start=1
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 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_00969"
 /translation="MVHEIQKIFLLPDATLLENLQKDGIVFEIYEIETFYTKITHFYD
 VKFQNLNGNFYKITRLNNPILEQNQEKISKDYEKARKKLIIEKSIKKRYEFKLCSE
 KSFIDVYEDLNLYVLKVFFPTLEMANLFAPPKEFKIQRELCGVLDKNIILYGFNNLE
 IDMEKCFKIIIEKNQFTLDFPSSILAFDGYRIFLFYLFKRLKLYWNLTLNRQRENFC
 EFFSYARKIYIILMSTEEIFDEELNKNLALRFEDLVKQSHCILANNELGENLLFLSS
 EELQNLSDFFIKEDSFYKGEQEKYFFKQMIQIQLRKRLVLFKKNLLKNFEIEIFE
 ENFLELSVFLEYFHNLYNLKILSKLYNKYFICDFEKKMLLKLTKKKEKLGKLIHKASK
 KLKIYKGY"

gene 61624..62331
 /gene="ubiE"

CDS 61624..62331
 /gene="ubiE"
 /locus_tag="DMACINML_00970"
 /EC_number="2.1.1.-"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34475.1"
 /codon_start=1
 /transl_table=11
 /product="ubiquinone/menaquinone biosynthesis
 methyltransferase"
 /protein_id="Prokka:DMACINML_00970"
 /translation="MQKQDKIIMKFNEIAPTYDKANRILSFGVDVSWRKFAKRVLKL
 YQKDNLNIVDVACGTGDMIEIWQESAKKLNKNIAHIKIDPSEGMLNIAKQKFPNIEF
 IEAGAQELPLQSESDIVSISYGIRNVVEREKALREFSRVLKQDGIFVVFLEFTKREKQ
 GFVASCDFYLNILPSLGGMISKNKSAYEYLPNSIEGFLSKEEFIAELKQVGFEMLE
 FKSFSFGVSSMFIKKV"

gene complement(62328..63821)
 /locus_tag="DMACINML_00971"

CDS complement(62328..63821)
 /locus_tag="DMACINML_00971"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ABS43406.1"
 /codon_start=1
 /transl_table=11
 /product="tricarboxylic transport"
 /protein_id="Prokka:DMACINML_00971"
 /translation="MDTWMYLMQGFSAIDPYNILIALIGCFIGTIVGMLPGLGPING
 VAILLPLAFAMNLPASAIILLATVYMGCEYGGRISSILLGIPGDAAIMTTLDGHP
 AKKGQAGKALSISALSSFIGSFIAICGIIIFAPLIAQWSLKFPAEYFALIVFGLATL
 GSMLAQKPIRSFALSALIGLFLTTIGIDGNTGVYRFTFDSPLYDGISFVVLVMGLFSV
 SEIFLMEHTQTSQNIINKTGKILVNIKEFFFCFWTIIRSSIIIGFVGVLPGAGATIA
 SAITYMSEKKIAGEKGFQGDLDKGVAAPEAANNASACGSFIPMLTLGLPGSGTTAVM
 MGALTLYNITPGPTMFTDQVNIVWGLIASLLFANVILLMNLPLVGIKILSIPMWS"

LAPIIAIVSIIIGVYSINSTDFDIIILILIIGILGYFLRKLEFPMAPLILGFVLGEQLET
 NLRRALSISNGDFSILWSGIIAQSLIGAVLIILIPLLIKKIRKSKF"

gene complement(63835..64278)
 /locus_tag="DMACINML_00972"

CDS complement(63835..64278)
 /locus_tag="DMACINML_00972"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ABS43127.1"
 /codon_start=1
 /transl_table=11
 /product="TctB protein"
 /protein_id="Prokka:DMACINML_00972"
 /translation="MSSIRIVAGILLVISLIGIYIGWNIHSDFNYPELGPFPFVGT
 ILIALCSIFLVFFSEDTKVKWGFILWKKLIVLTLAFLIYALFFEFGLGFIICTIFLI
 TITLLFGATLIKAIVFSISSIIILYYLFNTLLQITLPGFIFDNF"

gene complement(64283..65248)
 /locus_tag="DMACINML_00973"

CDS complement(64283..65248)
 /locus_tag="DMACINML_00973"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:ABS43865.1"
 /codon_start=1
 /transl_table=11
 /product="TctC protein"
 /protein_id="Prokka:DMACINML_00973"
 /translation="MKLKIFCSVLIFGFSLTFAKEPNRPECIAPAQPGGGFDLTCKLI
 QVGMLKANIISTPMRVTYMPGGVGVVAYNTMVNNRSKDGNNVAVFSSGTLNLIATGKH
 GKYNNVVKWLASAGVDYGMIAVKSDSPYKNLEDLINALHKDPNSISIGAGGSIGGQD
 WMQTALLAKTINVDVKKIRYVAFEGGGDALTSLLGNHIDVISAGIAELVPQIETGTIR
 VLAIFSPKRLPGTLANIPTAKELGYEVEWPVIRAYYMGAKVSDEAYNWWLDAFDKFKQ
 TQEYKDQLKQKRSLEFDKKGKELEDFVKKQTDQYRILAKEFDLIK"

sig_peptide complement(65189..65248)
 /locus_tag="DMACINML_00973"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 20"

gene 65421..66584
 /gene="xseA"
 /locus_tag="DMACINML_00974"

CDS 65421..66584
 /gene="xseA"
 /locus_tag="DMACINML_00974"
 /EC_number="3.1.11.6"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34476.1"
 /codon_start=1
 /transl_table=11
 /product="exodeoxyribonuclease VII large subunit"
 /protein_id="Prokka:DMACINML_00974"
 /translation="MKVSELNLKAKALLETHFNDIVLSGELSKITMHGSGHWYFDLKD
 EKSSIIACAMFKGANLKVDFQPKVGDFLELVGSVSLYAESGRYQFIANSMMKAGMGDL
 AQFLALKERLQKEGLFNSEHKKTLQPFPKIGIITSKTSAAALQDMLKLIQKEYFLAK
 IYVFNALTQSSAAYSILQALKKADEVGLDVIIIARGGGSREDLFCFNDEGLAREIFK
 AKTPIISAIGHEIDYVISDFVADFRAPTPSAAIDTLLYSRLDLEQGLDLLEKLTKLW
 ESKLEYCENLLSNLHKFFKAKSLETMIETKEKQLAFLLLKQAKIVMESKIQAELQLK

gene LQNAFFQHENFFKKSKNLISIKKNGKIANLEELKSEDIITLSSQTLQKEAKIL"
 66594..67670
 /gene="serC"
 /locus_tag="DMACINML_00975"
 CDS 66594..67670
 /gene="serC"
 /locus_tag="DMACINML_00975"
 /EC_number="2.6.1.52"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34477.1"
 /codon_start=1
 /transl_table=11
 /product="phosphoserine aminotransferase"
 /protein_id="Prokka:DMACINML_00975"
 /translation="MRKINFSAGPSTLPLELLEYAKNELCDYQGGYSIMEISHRSKV
 FEEVHFGAMQKAKELYGLNDDYEVLFLQGGASLQFAMIPMNL SLGGVCEYANTGVWTQ
 KAIKEAQILGVNVKVASSEESKFDHIPQVEFSDSADYAYICSNNTIYGTQFKNYPKT
 KAPLIVDASSDFFSRKVDFSNIALFYGGVQKNAGISGISCLFIRKDKMLKRSQNKNLPS
 MLKYSIHSQNQSLFNTPTFAIYMFNLEMKWLLDQGGDAIDAKNSQKAAMLYECIDS
 SEGFYKGHADKKDRSLMNVSNITKNSELEPIFVKEAEEAGMLGLKGHRILGGIRASI
 YNAVSLDQVKTLCEFMKEFAKKYN"
 gene complement(67801..68778)
 /gene="fabH"
 /locus_tag="DMACINML_00976"
 CDS complement(67801..68778)
 /gene="fabH"
 /locus_tag="DMACINML_00976"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34479.1"
 /codon_start=1
 /transl_table=11
 /product="3-oxoacyl-[acyl-carrier-protein] synthase"
 /protein_id="Prokka:DMACINML_00976"
 /translation="MPKASLKSIA SYVPEQILSNYDLEKIIDTTDEWITRRTGIKERR
 IASKDENTS DLGTKAAIKAIERANLKPQDIDAILVATLSPDYFTMPSTACKIAANLGL
 NGITAFDISAACSGFIYLLLEQAKALVESGLKKNVLIIGA EKASSIMDYTD RSICILFG
 DGAGAGVSLDENNPIIDVHTASNGNYGDL LMTERSQESKDASSLAMKMGNEVFKIA
 VQTLSDNVVEILSKNQILPEQIDLFIPHQANLRIIKAVQERLNL SDEKCIIVTVHKYGN
 TSAASIPMAMNDAYEEGR LKKGNLILLD AFGGGFTWGSALLKFGGENFS"
 gene complement(68771..69757)
 /gene="plsX"
 /locus_tag="DMACINML_00977"
 CDS complement(68771..69757)
 /gene="plsX"
 /locus_tag="DMACINML_00977"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34480.1"
 /codon_start=1
 /transl_table=11
 /product="putative fatty acid/phospholipid synthesis
 protein"
 /protein_id="Prokka:DMACINML_00977"
 /translation="MISIAIDAMGGDFGEKPIIEGVIEALKEKPFNAILVGDPHILEP
 LIPKNLKQYIQYENANEVFSMNENATDALKRKETTIIYKTIELVRNGKAKAAVSAGHSG

ASMSLATLRLGRLKGILRPAIATLMPNTVSKTLFLDVGANTDCKAENLFQFAIMGDAY
AKEIMKISKPRALLSNGEEECKGNELTKEAHLKQIPSFIGNAEGRDIFNGEVDIL
VCDGFDGNVILKACEGVATAIIQILKNEIKQSLVSKIGALLMKPSFKRLKKHIDWQEY
GGAPLLGINGCVIISHGKSDARAIKNAIFQAINFSESINQIIEKELEKYNA"

gene complement(69763..69909)
/gene="rpmF"
/locus_tag="DMACINML_00978"

CDS complement(69763..69909)
/gene="rpmF"
/locus_tag="DMACINML_00978"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34481.1"
/codon_start=1
/transl_table=11
/product="50S ribosomal protein L32"
/protein_id="Prokka:DMACINML_00978"
/translation="MAVPKRRVSKTRAAKRRTHYKVSLPMPIDKDKGSYKMPHRANPN
TKEY"

gene complement(69933..70292)
/locus_tag="DMACINML_00979"

CDS complement(69933..70292)
/locus_tag="DMACINML_00979"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34482.1"
/note="hypothetical protein Cj0331c"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:DMACINML_00979"
/translation="MKIAFSRINNTNYPFKLNLENVVFEGNLVKVNPVKLVKINTTMQG
FVYRPCDSCGEELELEIKEDLDL FASDGIFKDNTNELSNTIEFFDGHIDLIEVAVSEL
EAYLSDYFYCNNCKNKS"

gene complement(70292..70705)
/gene="ndk"
/locus_tag="DMACINML_00980"

CDS complement(70292..70705)
/gene="ndk"
/locus_tag="DMACINML_00980"
/EC_number="2.7.4.6"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34483.1"
/codon_start=1
/transl_table=11
/product="nucleoside diphosphate kinase"
/protein_id="Prokka:DMACINML_00980"
/translation="MEKTLIIKPDVAVKKGVIGKILDRFESNGLRIAAMKKVQLSKEQ
AEAFYAVHKERPFFKDLVEFMISGPVVVSVLEGEAVLKNRDLMGATNPKEAQPGTIR
ADFAESIDANAVHGSDSLENAKIEIEFFFKSNEIC"

gene complement(70808..71092)
/gene="fdxA_1"
/locus_tag="DMACINML_00981"

CDS complement(70808..71092)
/gene="fdxA_1"
/locus_tag="DMACINML_00981"

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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34484.1"
/codon_start=1
/transl_table=11
/product="ferredoxin"
/protein_id="Prokka:DMACINML_00981"
/translation="MAVKITDSCIACGSCIDECPVSAIVDDANNPEGEDRYVYANKC
VECUGHNDQPACASACPTDGCIVWSEIASGQPSRDNIGSDMRDGTIPVFA"
gene 71347..71943
      /gene="ahpC"
      /locus_tag="DMACINML_00982"
CDS 71347..71943
     /gene="ahpC"
     /locus_tag="DMACINML_00982"
     /EC_number="3.4.-.-"
     /inference="ab initio prediction:Prodigal:2.6"
     /inference="similar to AA sequence:RefSeq:CAL34485.1"
     /codon_start=1
     /transl_table=11
     /product="alkyl hydroperoxide reductase"
     /protein_id="Prokka:DMACINML_00982"
     /translation="MIVTKKALDFTAPAVLGNNEIVEDFNLYKNIGPKGAVVFFYPKD
FTFVCPSEIIAFDKRYQEFKNRGIIEVIGISGDNEFSHFAWKNTPVNQGGIGQVKFPLV
ADLTKQIARNFDVLYAEVALRGSFLLDADGTVRHAVVNDLPLGRNIDEMIRMVDTML
FTNEHGEVCPAGWNKGDAGMKADPKGVAEYLDKNEDKL"
gene 72067..73155
      /gene="flhB"
      /locus_tag="DMACINML_00983"
CDS 72067..73155
     /gene="flhB"
     /locus_tag="DMACINML_00983"
     /inference="ab initio prediction:Prodigal:2.6"
     /inference="similar to AA sequence:RefSeq:EAQ73215.1"
     /codon_start=1
     /transl_table=11
     /product="flagellar biosynthetic protein FlhB"
     /protein_id="Prokka:DMACINML_00983"
     /translation="MAGEDQEKTEEPTSKKIEDARKEGNVPKSQDAAAIIVTLIVGFVI
TLFMMGFIGERITNLYRYYQSFIVGEFDLRIIQAIMIKSIFEVLILLAPIVLSIMIAG
ILGNVMQFGFIFTTKPIMPNLGKINPLKGLKNLFLSKKLVESVKIVLKVGVVFTIAFI
VLLKFMQELPLVERYNIIGQLIWLDRRAIILAAIVIIAFLVIAVLDFLVRFYFKGL
RMSKQEIKDQYKMEGDPQVKGRIRRLQMEAARRRMVQDVAGADVITNPTHYAVAIR
YDTTKEQAPRVVAKGVDFLALRIKQVAYDNNVVVYENPLPLARELYKACDINDLIPREM
FKAVAEVLGFVYNTNKSRLAGQVKKNS"
gene complement(73170..73901)
      /gene="motB"
      /locus_tag="DMACINML_00984"
CDS complement(73170..73901)
     /gene="motB"
     /locus_tag="DMACINML_00984"
     /inference="ab initio prediction:Prodigal:2.6"
     /inference="similar to AA sequence:RefSeq:CAL34487.1"
     /codon_start=1
     /transl_table=11

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/product="putative flagellar motor protein"
/protein_id="Prokka:DMACINML_00984"
/translation="MAKKHKCEPCPAGEKWAVPYADFLSLLLALFIALWAIKTNPAK
VEALKTEFVKIFDYATQTVQQETQDTYKYKGSQEEKEDELSKQMTANQQEVIKLL
QAALDQSENQEILNLPKVEFERGSAQIVSVDIQDYLKRIAQLISYLPQIEIEIRGY
TDNSDSALRSYDLGYARAENVLKYLIEGGVSTKNINLKS YGLNPNPQALENNRV
QIYFKVDIKDNDAKRSVLDLIEKSK"
gene complement(73904..74680)
/locus_tag="DMACINML_00985"
CDS complement(73904..74680)
/locus_tag="DMACINML_00985"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34488.1"
/codon_start=1
/transl_table=11
/product="putative flagellar motor proton channel"
/protein_id="Prokka:DMACINML_00985"
/translation="MDLSTILGMVLAVTSISVGDILEGPNLHVHLSFLIVMPTAA
FCAMTSTHKKIVKAAYKELKIVFKGSGVNLPERIAQLIEFAIARRDGLLALESRTNE
IENDFLRNAMMMLVDGKSFEEIHESMEIQTEQLEEHYKECAEYWIIFGETCPTMGLVG
AVFGLILALKLLDNPQAMAAGISGAFTATVTGIFGAYALFAPWGRKMKANGMDLVKEQ
IVITEAIKGAEGANPRDLEAKLFNFLSHDDPKISQFDKG"
gene complement(74696..77335)
/locus_tag="DMACINML_00986"
CDS complement(74696..77335)
/locus_tag="DMACINML_00986"
/EC_number="2.7.7.7"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34489.1"
/codon_start=1
/transl_table=11
/product="DNA polymerase I"
/protein_id="Prokka:DMACINML_00986"
/translation="MKTLTIIDTFGFFFRLLYALKGFKNSQGQASGMISGFANFIYSL
KNEYKSDYIIFALDSKGKTFRSDIDPNYKKNRTPPPPELLEQIPICIEMIEKMGFMSV
SCEGYEADDIIASVVKTCCKDKDIFVRIITQDKDLYQLIKNGKTSIYSPISKNDYDEEA
CLEKYGVKPYQIKDFLALCGDSSDNIPGVKIGAKGAKTLLDEFGSIEGIYENLTLVR
NERSRKLLEKGFENAFSLKSLASLYEDLEVSNNLEKADFPQDEPLLVLEILEHYELN
VLLKLRQNPDKDKNLGFKATLIQDENQLFEILNSLDQESIIAFDTEETSIDVKEAK
IVGFSFCMSENEAFYVPLTHNYLGVGKQVSLQSACKAIELIFKHFIIGHNLKYDFKII
ENNFKLSLPQKYADTMILAWLKNPSLRVNMDLALRLFNYETLHFESLVKKGENFASV
ELEKACKYAAEDAYITLRFYLYFLKNLEPHLLDLAKNYEFDFIKIIMMEENGIKLDT
HALEILMKKFESEIKILSEEIYTLCEDRFNLNSPKQVGDILFEKLLKPSGKKGKTGYS
TDEKVLNELLDKHPVSKILDYRELAKLYSTYCEPLLKALKDENSRIYSSFLQTGTA
TGRLSSKDPNLQNIHAHQYAKDYKSCFVAKEGFSFISLDYSQIELRMLAHFSEDEKL
LNAFKNDEDIHARTAIMIFGESNYETRSLAKSINFGLIYGMGYKTLKLNKIEANLAK
TYIEKYFENFTSIKSYFEKVKNEAKANGFISTLSGRKRYFDFENAKPMQVAMYERESI
NSILQGSAAIIKFAMLEIAKILDQDKRLILQIHDELIFEVKDELCENFVKKASDIME
NIVKLVKLTSSSIKWKWGLK"
gene complement(77399..77842)

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CDS /locus_tag="DMACINML_00987"
 complement(77399..77842)
 /locus_tag="DMACINML_00987"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34492.1"
 /codon_start=1
 /transl_table=11
 /product="putative integral membrane protein"
 /protein_id="Prokka:DMACINML_00987"
 /translation="MFDLYNDINYLGFLFIVCFLSSTLLPLASEAFVVAFIKLDNFAN
 LVLFIAITLGNTLGSLSSTYALAYLGKEKILEKYFSKSLKLDKFNANFTKFGSIYAFLT
 FLPLIGDIFALGLGFAKYPFIKACFFISLGLKLSRYIFIIFIANSL"

gene complement(77835..78425)
 /locus_tag="DMACINML_00988"

CDS complement(77835..78425)
 /locus_tag="DMACINML_00988"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AAW34976.1"
 /codon_start=1
 /transl_table=11
 /product="membrane protein, putative"
 /protein_id="Prokka:DMACINML_00988"
 /translation="MKKKIFEFSILFVIFISLSQSALVFIHNYLIIDYSAYEAPPQS
 FEMLNLADQKLYHLRQNLRFHLSILAFLLTISFFFVHLFFFYISRKEKFIPIYSFFCFV
 LMVISAIANLLEGIEQKESIFWYKAFLDVGVCLIIYLLFLDKFFQSHLFKIFFICACL
 CTILTEFKFMDFTTPFVLPYIYLFILLILMRKKSFNV"

gene complement(78406..79110)
 /locus_tag="DMACINML_00989"

CDS complement(78406..79110)
 /locus_tag="DMACINML_00989"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AHY39596.1"
 /codon_start=1
 /transl_table=11
 /product="membrane protein"
 /protein_id="Prokka:DMACINML_00989"
 /translation="MSNLNFHQIFEIQRQNDFKSIKKLAWVVFVSFLLCVCFQFLSII
 LDFAYDLKLLKFNSNTNILAMVFYAIFLISYLMILKLYFVSQSKVLLISFFIAAFTQ
 FIALLSLNYLIASPVVVDKILRIFLYGFSFLCLAIAIFCTFIFFKALKTLKENKIYF
 TLCFIFKSAILIIYIFMFVLIYSEHSLALIIAHFMIFLFAGLLFTIYYALFAFALSK
 NKIPNLKLISNEKENI"

gene complement(79126..79674)
 /locus_tag="DMACINML_00990"

CDS complement(79126..79674)
 /locus_tag="DMACINML_00990"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AAW34978.1"
 /codon_start=1
 /transl_table=11
 /product="membrane protein, putative"
 /protein_id="Prokka:DMACINML_00990"
 /translation="MTQEQKISFFKIKRLSIYIFFCALYNFFYFFSYENVGSLHCEFL
 CISGRFLCFFSWIYIVLAFIFMVVRIYFLFSSNKILYIFLLAIISLGSSFFLLENKIL
 FLGLLALFFVFYFLFSLTLASLFKEVKMSFFFAFLFAPLVFLFFIFFENLSLLFLFLA

WHFLTFAYAFDRYETLKKLYRV"
 gene complement(79676..82498)
 /gene="uvrA"
 /locus_tag="DMACINML_00991"
 CDS complement(79676..82498)
 /gene="uvrA"
 /locus_tag="DMACINML_00991"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL34493.1"
 /codon_start=1
 /transl_table=11
 /product="excinuclease ABC subunit A"
 /protein_id="Prokka:DMACINML_00991"
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 CDS complement(82586..83371)
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 gene 83746..84987
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FLKLIKNEIFLAPIAGTRNLDENSILKLEKDLLSDEKELSEHKMLVLDLARNDASKFG
KNTRVENLFSITRNKFVMHIVSEVYATMDKQANIFDIIGAVFPAGTLSGAPKIRALEI
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gene 84989..86581
      /gene="trpD (trpGD)"
      /locus_tag="DMACINML_00994"
CDS 84989..86581
      /gene="trpD (trpGD)"
      /locus_tag="DMACINML_00994"
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CDS 86568..87167
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      /locus_tag="DMACINML_00995"
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      /protein_id="Prokka:DMACINML_00995"
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ALAGGIGTHNINEALSLKPKIIDLSKIEKENHLKDVEKIKYILKEMKK"
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CDS 87164..88342

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/transl_table=11
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/protein_id="Prokka:DMACINML_00996"
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KTLKEATTAIQAWVGDIKNLFYVVGSAVGPYPYPMVTHFQSVIGKECKSQLKGLGK
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gene      88335..89084
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CDS      88335..89084
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ENFVKKAKALGISALIVPELSYEESKPLYKECQKYDIALITLVSITTPKERVEELVKN
AKGFIYLLASVGITGGQSVDNKLLQEKIQEIRSFTKLPYIYIGFVKNNTDVRNMRKLA
DGVIVGTNIVKLFASNDVNQILKGVVEEIFEK"
gene      89154..89576
          /locus_tag="DMACINML_00998"
CDS      89154..89576
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          /product="hypothetical protein"
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EYHFYLFPPKEFLQTIANILVRDEKFKEDDWCDLSKECANQIIIGYAKNLLNDAKGDDE
YKLG IPEYLGRVDFSSIIILDES LTYGFENHYFRIGYCK"
gene      89576..89884
          /gene="fliN"
CDS      89576..89884
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/protein_id="Prokka:DMACINML_00999"
/translation="MGSDIDFGDRHGLLQSYEDILDITVDFVSELGTTNMSVAELLKL
EVGSVIDLEKPAGEVELYINKRIFGKGEVMVYEKLNLAIRINEILDSTKTVLQYFKKEI
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gene      89884..90675
          /locus_tag="DMACINML_01000"
CDS      89884..90675
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SQQKEKNLTLTFSDLKYSKEELKSLNSGLVDKISSSKDNNTYIMLQNKQPVSLLELS
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ILLIVLWVKRTLAFKNAGISRDFHVVVFQRFLDKNNQLIVFEYASKRYTMIVGNSNIV
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gene      complement(90672..92132)
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CDS      complement(90672..92132)
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          /protein_id="Prokka:DMACINML_01001"
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IGTVRLKELFYDKGKTDALDDFINPILEQIPSEFCNQNLIAIGGSLRAISNSIMQKNS
YPLKNIHDFRYMLEDEKEHILKIFNCKADALINFGIKKDRFDTIKEGIFIFLKIAEKL
KTKQIITSGVGIREGIYLDLLRPKHTFPINFNPSLKS LQDRFLQGNINNKTPYFSMQ
IFKVLQTLHKIHEKYQSLLNAAKLCHLGEYLN FYFANEHSAYFILNGLNYGFSSHQEK
VLIATLIRLNGKKNVYPNLEPYKQLLPNTHIISWLNFI LSLAKILSTNENKIEIAFAN
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gene      complement(92132..92377)
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          /locus_tag="DMACINML_01002"
CDS      complement(92132..92377)
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          /locus_tag="DMACINML_01002"
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gene    complement(92491..93162)
        /locus_tag="DMACINML_01003"
CDS     complement(92491..93162)
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        YDLVLASWNLPDGDGAELVNTIKHKSPRTSVMIMSAKTDKDEIKALKAGADDFVKKP
        LDFDILLARIEARLRLGGTNVIKIEDLVIDPDEEKITYKGQDIELKGGKPFVLTHLAR
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        FPKKS"
gene    complement(93241..93558)
        /gene="folB"
        /locus_tag="DMACINML_01004"
CDS     complement(93241..93558)
        /gene="folB"
        /locus_tag="DMACINML_01004"
        /EC_number="4.1.2.25"
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        /protein_id="Prokka:DMACINML_01004"
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gene    complement(93543..94154)
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CDS     complement(93543..94154)
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        IYLLFEGGKGVATGAGAMIVLLPLELLTAFIVWFIVGKIFKISSLASLLALLVFIGSS
        FIFNYDMQTIKTHAPVFIIAFIIIYKHLPNIKRLVFKEECKVI"
gene    94333..95358
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CDS     94333..95358
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PEYVAEFKKIYGKSGVNF DNIADAIANFERTLITPSRFDNFLNGDEKALTKEEQKGLK
LFIDKGCVACHNGVNLGGNMQAFEVAGKYKFANL GDFKGDENGMVKTPTLRNVVETAP
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sig_peptide 94333..94392
/locus_tag="DMACINML_01006"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 20"
gene 95449..96789
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CDS 95449..96789
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/protein_id="Prokka:DMACINML_01007"
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IVSIKNSFPKDL TLKSLRVVLDVAHGAAYKVAPT VFKELGAEVIVMSDKPNGLNINEN
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KLKSSVATIMSN GALKEFLNQHGIELDTCNVGDKYVLEK LKAKGGNFGGEQSGHIIIF
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gene 96782..97240
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CDS 96782..97240
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ALNTGVAFSMFSFLEHYLKY LHLALILALFIYLLWQKQFLREHLVAFGMMLGAGCSNL
LDRFIHGGVDMF FWHKWFHFAIFNVADVMINISVVLILLKEIFIKKGKK"
gene 97237..97689
/locus_tag="DMACINML_01009"
CDS 97237..97689

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gene complement(97721..99031)
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CDS complement(97721..99031)
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LKKIARYNKFSSKQLQEKISKALGILPIFSLDLIFNFPSQTEEQLLNDLEIAKNLAP
QQITTYPLMKSNTKDNIAKSLGVEIKDNEFKYYQMIRDFFKDYQQNNGWSFSLEKNQ
LNDEYVSSHHEYLGVGSGAFSFLDGELLINAFDLNDYAKMIQEQNANIAKASFTQKE
IIKYIFLTEMFAGKIQIDKFNQTLNCDLEKELFKELLGLKISNAIKKENGTLITSEFG
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CDS 99155..99406
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gene complement(99437..100915)
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CDS complement(99437..100915)
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efflux system CmeABC)"
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GEYEIAQSRANLESTALQYNEAKLNKENYLKALKILTSNDLNDILYQDQAYQVFKLKD
FDIPSGISSTILLQRPDIGSSLEKLTQQNYLVGVARTAFLPNLSLTGLLGFESGLNT
LVEAGSRTWNIGGNFTMPIFRWGEIYQNVNLAKLNKDEAFVNYQNTLVAAFGEIRYAL
IARKTIRLQYNNAQASELSYKRIYEISKERYDVGEMSLQDYLRARQDNLNATVAFNNT
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sig_peptide complement(100844..100915)
/gene="cmeC"
/locus_tag="DMACINML_01012"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 24"
gene complement(100908..104030)
/locus_tag="DMACINML_01013"
CDS complement(100908..104030)
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/inference="ab initio prediction:Prodigal:2.6"
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subunit"
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LNILDELKRVPVGDANAIGNRNYSLRIWLKPDLLNKFATATDVIAAVNDQNAQYAT
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YKSQGRNLGNDAVPIMINLQSGANALNTAKLVEAKMQELSKSFPEGLEKIPYDITTKF
VIESIKEVVKTFVEALILVIVMYMFLKNFRSTLIPMIAVPVSLGLTFAGLYLLGFSI
NLLTLFALILAIGIVDDAIIIVVENIDRILHEDENISVKDAAIQAMQEVSSPVISIVL
VLCVAFIPVSFISGFVGEIQKFALTLAISVTISGFVALTLTPSLCALFLRRNESKPF
YIVQKFNDFFDWTSTIFSAGVAYMLKRTIRFVLIFCMLGAIIFYLYKQVPGSLVPEED
QGLMIGIINLPSASALHRTISEVDSMSQEILKTNGVKDAMAMIGFDLFTSSLKENAAA
MFIGLEDWKDRNVSADIEIMELNKKFAPDRNAASVFRGLPPIPGLSITGGFEMYVQNK
SGKSYDQIQEDVNKLVAANQREELYGVRTTLDTSFPQYKLIIDRDKLKHFNLNMQDV
FSTMNATIGTYVNDFTMLGKNFQVNIRAKGDFINTQNALKNIFVRSNDGKMIPLDSF
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SAYQEVSSKGTGSYAFALGMVFLVFLILAAQYERWLIPLAVVTAVPFAVFGSFLLVYLR
GFTNDIYFQTGLLLLIGLSAKNAILIVEFAMEERFKKGKIFDATIAAAKLRFRPIVM
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LDKRRGKVHE"
gene complement(104030..105133)
/locus_tag="DMACINML_01014"
CDS complement(104030..105133)
/locus_tag="DMACINML_01014"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:APA80655.1"
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/protein_id="Prokka:DMACINML_01014"

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sig_peptide complement(105065..105133)
/locus_tag="DMACINML_01014"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 23"
gene complement(105241..105876)
/locus_tag="DMACINML_01015"
CDS complement(105241..105876)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:APA80656.1"
/codon_start=1
/transl_table=11
/product="Transcriptional repressor of CmeABC operon, CmeR"
/protein_id="Prokka:DMACINML_01015"
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gene complement(105863..107239)
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CDS complement(105863..107239)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34519.1"
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gene 107385..107597
/gene="rpsU"
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CDS 107385..107597
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RKKQKISARKKMLKRLYMLRRYESRL"
gene 107798..108400
/locus_tag="DMACINML_01018"
CDS 107798..108400
/locus_tag="DMACINML_01018"
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/inference="similar to AA sequence:RefSeq:CAL34521.1"
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/protein_id="Prokka:DMACINML_01018"
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TSNLTKEGGQISSGGLSLGETLLASAAGAILGSWIGSKLFNNQNFANQQRGAFSNQSA
YQRSVNSFNKAGAAGSASSASKSGFFGGGSKSSSSSSFGS"
sig_peptide 107798..107860
/locus_tag="DMACINML_01018"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 21"
gene 108410..109579
/locus_tag="DMACINML_01019"
CDS 108410..109579
/locus_tag="DMACINML_01019"
/EC_number="6.3.1.8"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34522.1"
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/transl_table=11
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/protein_id="Prokka:DMACINML_01019"
/translation="MRVVQVEKLQKDYLESIGFSWHSDEGDSDYISDKLVCSSENEAN
AYYEAVNELYDMFVAAAQNVIDNNRFDELGIPFNLIDAIKMSWENEVHWHLYGRFDLA
GGLDGKPIKLIENADPTALFESAILQWAILKQNGMDESKQFNSIYESLMDNFKRLI
TLEEDTQGFEEYYQGWKILFSSVAGSKEEEITTKLLAHIANEAGFQTDFFSFDVEVEFS
EEGIFKEGVNVEYWFKLVPWEDIAIEEGELAMLLTQIMRNQKAIILNPAYTLFLQSKG
ILKILWELFPNHPLLETRDTPLEGKDYVKKPVFGREGANISIIKEGKILHENVGPYG
NNKNIYQEYVEFNSHDNEYQAGVFFAYEGCGLGFRKGGLVLDNYSKFGVGHVIEG"
gene 109584..110519
/locus_tag="DMACINML_01020"
CDS 109584..110519
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34523.1"
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/product="putative D-2-hydroxyacid dehydrogenase"
/protein_id="Prokka:DMACINML_01020"
/translation="MKIVCLDAATLGGYDLSIFKHFGFQSYALTDRKETIERLKDAD
VMTNKVVIDKEVMDACPNLKLILETATGVNNIDVEYAKEKGIIVKNAAGYSTMSVVQ

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HTFAFIFAFLNHIPYYDKWSKEGKWCDSPIFTDFSRILNSMEGKKHGIIGLSIGKEV
AKISSAFGAKICYSTSGLNQNAEFECNLLEELLRTCDIVSIHAPLNEKTKNLLTYEK
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gene 110509..111000
/locus_tag="DMACINML_01021"

CDS 110509..111000
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/inference="similar to AA sequence:RefSeq:CAL34524.1"
/note="conserved hypothetical protein Cj0374"
/codon_start=1
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/translation="MASEHSFDISAALDKQELKNAFEQAKKELDSRYDLKGIKCEIEF
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NLK"

gene 111011..111481
/locus_tag="DMACINML_01022"

CDS 111011..111481
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/inference="ab initio prediction:Prodigal:2.6"
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LKKENKALNLEVYKLGQAFFKLIKIREDICLNSVCYSKTVFNQKFFKNAYYEDILKDIL
EAKPLWNGKDMQKTQCGFNQSLNSANYEIFYEVCDNKISFFDKTSHIKIILVKF"

sig_peptide 111011..111064
/locus_tag="DMACINML_01022"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 18"

gene 111491..112312
/locus_tag="DMACINML_01023"

CDS 111491..112312
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/inference="similar to AA sequence:RefSeq:CAL34526.1"
/codon_start=1
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/protein_id="Prokka:DMACINML_01023"
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GDRLGTTTLELIKEQNNTRIKRSLDFLVYKDEIREFHPIHKQVVSFEQIRQKPIVLKD
GKLGFEWYFYEEDSRAILELNNFVDMKKVFLNLNELYVDNLKFKELLHQKLL
VCDECFFDMEQVSFNNNFLTNSGLRLCYLPYENHYLDENICVDFNENEIKEFKK"

gene 112314..114026
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CDS 112314..114026

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SINAFTLLTGIFGSEKYSYLDLTLKRLIERGFINQNSGFFKNIENKSNQLTSLLL
QSELSLSEYFLEFLEAKPRLNLDKKEAYGEYLEYKDEFMRVELYERLSFIRSSAYS
ELKAQIKLYEKYIKERLKKSKFYNILADIFKEYNLEGKEQIIFLALLKEEYTLNENS
VSREINSLLSLSENDLEKHKNSLLQENAPLLNLIIEYDEYLNAFGDISKSFFITDEI
LQRIINFEPKQNKKIKIENVLKEQDIFELIEPSIDINDIIMPQNTKELLENILKQQDK
KVLERLNSWGIKSNKNIIEAKIIFYGPAGTGKTMSALAMAKSMKKTVLSFDCSKILSKW
VGESEQNVRKIFDQTYKNIVQTCQSPILLNEADQFLSTRVSSSGSDKMHNMQNIIF
LEQIERFNGVIIATTNLFESLDSAFSRRFDYKIEFKKPDFKDRLLKMWKFLPRKASFE
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gene complement(114023..114571)
CDS /locus_tag="DMACINML_01025"
complement(114023..114571)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AAW35016.1"
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/transl_table=11
/product="membrane protein, putative"
/protein_id="Prokka:DMACINML_01025"
/translation="MHAKYFKFLAYFAFLASLIYGFYHILKAFDFVKEAYIYTGIFAL
IFLNLSSLFSLCKFKKTKSYPKLLGIFAAFWAFHLFLNYFIFDRNANFLRLFDDISHR
LLEASGFFAFIIFFMFLSSFRVFKRIEKIRKLGIVCLVLASYHYFLSPKVPWFWEWS
ALILSLVYFAIRYLRFLKPKKS"
gene complement(114571..115464)
CDS /locus_tag="DMACINML_01026"
complement(114571..115464)
/locus_tag="DMACINML_01026"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34529.1"
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/transl_table=11
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/protein_id="Prokka:DMACINML_01026"
/translation="MIITPEKLYQRRDFFKLGAGALIGSSLIASKLSALNFINDTNA
NKLEISDEELATNYINFYEFSTDKRRAVSLAQNFNTQNWKIDISGEIEKPLSLSMEDI
LKFPLEERIYRFRVETWSMVVPWVGFELRRLIDMAKPTSEAKFIKFTLLDKNQFPD
QDALFPTVDYPYVEGLRMDEAMHPLTLLAVGMYKKALKPQNGAPIRLVVPWKYGFKSI
KSIVKIEFVKEQPISTWEKYAPNEYGFYANVNPVSHPRWSQANERLALGDFFTKPTLM
FNGYEKEVASLYAGMDLKANY"
gene complement(115526..116305)
CDS /locus_tag="DMACINML_01027"
complement(115526..116305)
/locus_tag="DMACINML_01027"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ADC28003.1"

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ILKQKDLNLFLLGVRNKIALKVHNYMQEYSTSPKDLSLICLREHKHIEFFQRFYKALAY
FVSRKRLDDEEQMKMNLISNIEHYFGCHFNSDFNQLQNFQKNDFFTLPEKCLQYFHL
AMIHLCFMVLNPLNFKDSNRHLDKAINYLIDGTFEIYELIFKEYFLLFPKDEELKNEL
KKLKNLEFKILMQETSRIKLLNHYKEFCEEIFYNIELEKII"
gene complement(116302..117141)
/gene="pyrF"
CDS /locus_tag="DMACINML_01028"
complement(116302..117141)
/gene="pyrF"
/locus_tag="DMACINML_01028"
/EC_number="4.1.1.23"
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/inference="similar to AA sequence:RefSeq:CAL34531.1"
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/product="orotidine 5'-phosphate decarboxylase"
/protein_id="Prokka:DMACINML_01028"
/translation="MKLCVALDLATKEECLRLAKDLKGLDLWLKVGLRAYLRDGFKFI
EELKKIDFKIFLDLKIHDIPNTMADACEEISKLGVDMINIHASAGKVAMQEVMTRLN
RLNKRPLVLAVSALTSFDEENFYSIYKQNIDEAVINFSRMSYQNGLDGMVCSVFESKK
IKEHTSSNFLTLTPGIRPFGETSDDQKRVANLTMARENLSDYIVVGRPIYKNEDPRAV
CEKILDKIHRKNISENDIEQNYEAIQQKEWDMCNHFEWIKTQPDKEQALKEFYTKCG
IKY"
gene complement(117138..117536)
/gene="nusB"
CDS /locus_tag="DMACINML_01029"
complement(117138..117536)
/gene="nusB"
/locus_tag="DMACINML_01029"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL34532.1"
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/protein_id="Prokka:DMACINML_01029"
/translation="MATRHQVRQSVISLLYALEMNEKNENFIDEFLNEKKIRNEQKNF
TLSLYEGIIKNLDDIDKLNLPYLNENEIEKLGHIERAILRLGAYELLFTDTPNAIVIN
EAIELAKELANDNSPKFINGVLDLTVKAKQ"
gene complement(117536..118000)
/gene="ribH"
CDS /locus_tag="DMACINML_01030"
complement(117536..118000)
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KEENLSLILVPGAFELPFALKKAIESKKFDAICCVGAVIRGSTPHFDYVSAETTKGIA
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gene complement(118002..118814)
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CDS complement(118002..118814)
/locus_tag="DMACINML_01031"
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LCRQTDLLVAAAKTKAKVNIKKGQFLNPSDIKYSVKKVLQTRGIEEEGYQVADKNGIF
VAERGASFGYGNLVDMRSLVIMREFAPVIFDATHSVQMPGAAGGSSGGKSEFVEPLA
RAAAAVGVDGFFETHNPCEALCDGPNMLDLNRLKACVKTLLEIQNIIEGK"
gene complement(118811..119743)
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CDS complement(118811..119743)
/locus_tag="DMACINML_01032"
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/inference="similar to AA sequence:RefSeq:CAL34535.1"
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TAPIFITLIAFIIFKENIGTKGWLGIILAFSGVLLIAQPWADNSTHSGFDLKNSSIIGV
MSGFLAALALTSVRELRFYTTTEQIAFSFIFLGALMPLISMISAEFFEPKHLDALHLD
FILAPFVMPSTAWLIIAIMGALGTIYQIHVTKAYGIQAGVAVAGISYLDVVFSMIV
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gene 119861..121243
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CDS 119861..121243
/locus_tag="DMACINML_01033"
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/inference="similar to AA sequence:RefSeq:CAL34536.1"
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/protein_id="Prokka:DMACINML_01033"
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FINSKALLIDSGGLDESNELFKNVKNLTKIAKESDIILYLDVGKLSPPDEDRQFFH
SLKKLGKPIALVINKVDNKKDEERSWEFANFGVKEVFNLVTHNIGLDELYNWLENFL
DEEFLVPDEEENLEDFLEHYEEGKEFQFKEVDQNHIRVIGRVNVGKSSLLNALVKQ

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KFLAYAPIVSVSALS GKR VHVLLEKILEVFANFTQKIPTSKLNDLIASATKAHPLPHD
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gene      121230..121727
          /gene="aroK"
          /locus_tag="DMACINML_01034"
CDS       121230..121727
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gene      121724..122683
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NNEWGEIFTLPEAKINEEVAVVGT DGAKMSKSYQNTIDIFASQKALKKQISSIVTDS
TALEDPKDYQNCNVFKIAKFLNEAEQKELQVRYEKGGEGYGHFKMYLNDLVNEYFKE
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gene      122693..123928
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CDS       122693..123928
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          /locus_tag="DMACINML_01036"
          /EC_number="6.1.1.11"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL34539.1"
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          /product="seryl-tRNA synthetase"
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VLKNEGALLSRALVNYMIDFNRSRGFEFVNPFLVNSATMFGTGQLPKFKDDMYKIDD
EDLYLISTSEIPVTNLYSGEILTSESLPIKMTCSACFRKEAGSAGRDRGIIRQHOF
EKVELVSITKPEQSDSVFNEMVECASDLLSSLGLAHRHMLCTGDLGFSAAKTIDLEV
WIPSQNKYREISSVSNCRDFQARRAKIRYKNEKGKNELVHTLNGSSLAVGRTLVAIME
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gene      complement(126429..127043)
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CDS      complement(126429..127043)
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gene      complement(127136..128578)
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CDS complement(128630..129976)
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LHGDPDLLADMNTRFGPTALVIPKLERYHGLKSVPEFFEALKLDKTVLKVTFMSFKDP
TIRNYILYNYLFELPFIDKGLFVKDAKKIVPSLKTSDIYYAKGFGGVRPQVIDKTKGE
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EVYSYKFDAAVLGIALHGDDLALILANNSIVLANRSLGIKFNQNLTPAPAQDSRVANP
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VIVVSPARTLYLDADIKDIAFDNNAIFILEKNGNIIKTDYNLRKITEKKFDFAIFTKV
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gene complement(131997..132575)
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gene 132708..132995
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CDS 132708..132995
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gene 133075..133635
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KFVSQATKFIQNTFYKIENQSLAEFAGFLATLIIVWIIICLILGNFLSKLVKLSGLGFL
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gene 133639..134109
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YVDMIMNAEVRKDFLIRSKVSLIRHFFEEKGFLEVETPMHPIAGGANAKPFVTFHN
SLGVERFLRIAPELYLKRLVVGGFVAVFEINRCFRNEGMDLTHNPEFTTIEFYWAYHN
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gene 135614..136858

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 KPCLIVCGASAYARIIDFSKFREIADEVGAYLFADIAHIAGLVVAGEHPSFPFAHV
 SSTHTKTLRGRGGIIMTNDDELAKKINS AIFPGIQGGPLMHVIAAKAVGFKFNLSEE
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DALGDFDFDLVINSTSAGLKDDDLPCDKILLDKILSRAKFAFDVIYKETSFLKLSKE
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gene complement(139122..140027)
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CDS complement(139122..140027)
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sig_peptide complement(139968..140027)
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CDS 140118..140933
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gene 141001..141786

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gene
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 DGGILRDVDGYRFMPDYEPKKELASRDVVSRRMMEHIRKKGKGVKSPYGDHLWLDIS
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 LIKKIEIKSNLEFLKNNISIVDTPGLDDIVVQREILTNEYLKESDFLIHLMNASQALT
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ORIGIN

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LOCUS DMACINML_6 142271 bp DNA linear 16-DEC-2020
DEFINITION *Campylobacter* species strain strain.

ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.
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 /strain="strain"
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gene complement(2039..4303)
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CDS complement(2039..4303)
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/note="predicted cleavage at residue 21"
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production protein LuxS)"
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KRSEIELLEENLKLISIHHLIKDDNACTGFNTAAKLNPPLRSKEDKESLKQALKQGGKI
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 SQTLSMVKWSEIVRIAISWVISPLFGGLVAYLIYSYIDKKILKPSEKLSEELKNLKKD
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sig_peptide 12201..12254
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gene 15241..16617
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 VRKLAERTQRSTSEISIAIQTMQQDFVNIQSGSEQVFNIVSESEERINKFSEAFRGLE
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gene 22169..23293
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NPALALKVDHKFGDAFIMTAYNSETSGDSEELVNANIADVIAYLKEVGKFEAKENAT
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gene 23421..24584
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 KIPFLKLFSDTSLVFAKHYESKLEIEGDYDEIAKVLYYFSNKRFLKNTEDILSKIAQ
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 PNEKLLDIGCGWGLSIIAAQKYGVKVVGITISEEQCKKAQERVKEFKLEDRVEIRLQ
 NYQDLEFEDYFDKVVSVGMFEHVGENLGLYFMKAKQVLKPGGSMLLHSLAMFEGKT
 NAWIDKYIFPGGYLPSLREVVSAMSEWDFHLLLAESLRIHYAKTLDMWSNNFNQVLPQ
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gene 24702..25493
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 /locus_tag="DMACINML_01103"

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gene 25493..26566
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CDS 25493..26566
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 NGRVGVIIAACDNAEVANKSRDFLKQLCMHIAAMKPSYLSYEDLDVEFVENEYKALV
 AELEKENEERRRLKDPNKPEHKIPKFA SRKQLSDAILKEA EENIKEELKAQ GKPEKIW"

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 /protein_id="Prokka:DMACINML_01105"
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 LASVLSNQDLDEKILKKGIIHELLKQKIGKLSGGQQQRVSIARVLCCKPKIIFADEAT
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 CDS 27198..27965
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 gene 28021..29544
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 CDS 28021..29544
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 DAILPIEEAENPYANISLDLDDLNLDDLDPDEKTEDIQENELSMEENLESALDDIKED
 ARAHENTDKELNLDDLSDDEEQKNHTSEATVNHLEEKNEQESLEVLSDQDDILDDKI
 SEEDSKNQEQDFEDQNEIQDKIEDIQELEEQTDKLDKDLLKDFEFGQEVNANDALD
 IKEETKIEALEKEESLDKIQSQDFITDDFPIVEEQETKVDFDDIPEDAFLGQTKED
 EAVEDFLPVVEDQENLDEHDFEEMSNLSTQDQIKEELAQLDELEYDIDSDDSIKVL
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 gene 29541..30158
 /gene="gmk"

CDS /locus_tag="DMACINML_01108"
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 GEQHGVDYFITHDEFQQGIDKEQFLEWAKVHENFYGTSLEHTQNALNDGKIVVFDID
 VQGFKIAKEKMAEKIISVFITTKNKDELKRLIKRNTDTILQLEKRLQNASDEMKELN
 EYDYLIINDKLEESYEALRAILIAHKFKTKGQNLEQIQNIWNKGE"

gene 30160..30405
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 /translation="MGGWSSPSHWLIILLIVVLLFGAKKIPELAKGLGKGIKTFKDEM
 SNEDEAAKNANAHKIEEKQNTTNTSTANIDEVKKS"

gene 30416..32008
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CDS 30416..32008
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 TESFLLEYVSANPTGPLHIGHARGAVFGDTLARVAKHLGYKFDTEYYVNDAGNQIYLL
 GLSIFLNKESILKQVEVEPEQYKGDYIIDLAKEAYEHFPQDFTEENIPALADWAK
 DKMLILIKDNLQANIQIDTYASERSYYGAL EATLSALKEHGGVVEQEGKIWLASSLK
 GDEKDRVIREDDGRGTYLAADIVYHKDKMSRGYDKCINIWGADHHGYISRMKAAMEFL
 GFKADDLEIILAQMVSLLKNGEPYKMSKRAGNFILMSDVVEEIGSDALRYIFLSKKCD
 THLEFDISDLQKEDNSNPVFIYINAHARIHQVFGKAGKKIDDVIDADLQSLNQDGVNL
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gene complement(32027..32335)
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CDS complement(32027..32335)
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 /protein_id="Prokka:DMACINML_01111"
 /translation="MYIAIIILSAFLDIVANLLKSDGFRHKSWGIAAIIISAILAFF
 LLSFSLKYVPLSIAYSTWGAIGIIGTCLGGWILYREKLNKIGILGIVIVIIAVFLLNH
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gene complement(32336..32677)
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CDS complement(32336..32677)
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 /translation="MNLIKKELFIAWFFLISAIIVFEVLGTSFLKMDNPILAYGFMAIF
 IAFSYFFMGKAIKKIQVGIAYAVWELLGIILILLVSVFILFKESLTSTQMLGIALSIIG
 IILINIGEVKE"

gene 32784..33491
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CDS 32784..33491
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 DKLEDDDDVQAVYTNIE"

gene 33501..33983
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 /locus_tag="DMACINML_01114"

CDS 33501..33983
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 /locus_tag="DMACINML_01114"
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 /transl_table=11


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gene      34148..34753
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gene      complement(34750..35673)
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CDS      complement(34750..35673)
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DLEDMSAIHSSYTRIIHATNLEKLANCDIIILAFRKENLKEPRLVELQNNITELKD
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LNLNPKDITAYMIGEHDGDSQFAALSTASVLGQNLFTCDKMGKKLDIENIEKAVVDEG
YFIYKRKRTEFGIGTSCANLAKAVLEDRKSLHPVSVVFDLAFSLPAIIGKNGVEKI
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gene      35738..36514
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          /translation="MQKPDIQSLTNFLIDYTKTLLSAGTYTARVAKCVGRIAQVYGYE
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KAKLAFNTISIQKKHSYILNLLFVSIANSQFCRLFGGDFGAGVLVFFATFLGLLRFA
LTKVKIDLRIQYILCSFVSSWFVFLGLDMGYTNTSDAALGSSILYLIPGVFFINSIID
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gene      36511..37005
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CDS 37063..37329
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/inference="similar to AA sequence:RefSeq:CAL35279.1"
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CDS 37402..38346
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FRGANLENVNMKSAFLHMMSDLLGSLVVIIGGIIVYFSGIVYIDTILAIILSLLLRW
SVTLKQSVNVLLETSPVDIEEVKQALLNSKVEEVIDLHITQITNKMLVASMHLRVN
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CDS 38336..38539
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/inference="similar to AA sequence:RefSeq:CAL35277.1"
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/protein_id="Prokka:DMACINML_01121"
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gene 38539..40662
/locus_tag="DMACINML_01122"

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CDS 38539..40662
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 CIYLNLFEDKHYFSGAAMIISFVLLGKFLETNAKFKALNYQKRLNEIDIKKAKILN
 EAGELSEIPSAFVKNGDIIIVSEGESVAVDGVVIQGKAEIDTSFLSGFEFLPSNVRVDD
 EIKAGSILLNGLNHIKASKKAMDSTLEQIKDLVFKAGNIKTPLENSVDRISRYFVITI
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 SVQGV
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gene complement(40674..42230)
 /gene="dnaX"

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 RDTLT
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 EAS
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 MMEA
 SHLKEIDTQINEIQNLTNTNSNSEKQEIKTPIAVEIQKSSPIKNAYEILLEKIY
 DRD
 YELGECFKQSTQFISYENEILTIGSNAQGSNRDKLNKGFKLIQELFRNHFGS
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gene complement(42233..43531)
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CDS complement(42233..43531)
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 /locus_tag="DMACINML_01124"
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KIKLEYDAMKLTGRILDFTPIGKQQRGLIVAPPRTGKTELMKELASAIKHNPEMHL
IVLLVDERPEEVTDMQRCVKGEVFSSTFDLPAYNHVRVAELVIEKAKRMVETGKDVII
LLDSITRLARAYNTATPSSGKVLSSGGVDANALHKPKRFFGAARNIENGGSLTIVATAL
IDTGSRMDDVIFEEFKGTGNSEIVLDRNISDRRIYPAINIIKSQTRKEELLQGVAEQ
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gene 43650..46007
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gene 46000..46200
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CDS 46000..46200
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CDS complement(46230..46529)
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sig_peptide complement(46470..46529)
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gene 46647..47168
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CDS 46647..47168
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gene 47165..48118
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CDS 48111..49496
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gene 50053..50814
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glycosyltransferase, putative"
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SFGSAKRWDASYFAQVALNFSKTHEILIFGAGKAEQELCDEIFHILKEKNVVKVKNLCN
KTTIKMLCQNIACDIFITNDSGPMHIAAAYKTKTVAFGPTKFTQTSPWQNNQNAKLK
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gene 51810..52622
/gene="waaV"
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CDS 51810..52622
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SVKIALEFAKKDERVKIFQNDENLGTAFATRNGLVLSRAEFIMFLDSDDFLALNACEV
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FRKDLILKSFERINLYERLSYGEDVLCYMNFLCEDKMGVFKECIYHYEFNEKGRYEN
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gene complement(53384..54049)
/locus_tag="DMACINML_01135"

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gene complement(54046..55005)
/gene="neuA1, cgtA"
/locus_tag="DMACINML_01136"

CDS complement(54046..55005)
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synthase)"
/protein_id="Prokka:DMACINML_01136"
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          /locus_tag="DMACINML_01137"
CDS      complement(55008..56120)
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          /locus_tag="DMACINML_01137"
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          /locus_tag="DMACINML_01138"
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gene      complement(57135..58019)
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          /locus_tag="DMACINML_01139"
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gene 58077..59039
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CDS 58077..59039
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KIFKDLYLKAYNAIDLKLEKNTMAEDFLVLHGLSFVKTIYTTKKYLYNYSNEN
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CDS 59020..60231
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gene complement(61270..62817)
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CDS complement(61270..62817)
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CDS complement(62814..63701)
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gene complement(63694..64722)
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CDS complement(63694..64722)
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gene 66616..68316
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 ISTDKAVRPTNIMGCTKRVCELYTLNSSDENFEVSCVRFGNVLGSSGVSIPKFKAQIA
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CDS /locus_tag="DMACINML_01158"
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/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 20"
gene complement(89938..90390)
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CDS complement(89938..90390)
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gene complement(90387..91157)
/locus_tag="DMACINML_01171"
CDS complement(90387..91157)
/locus_tag="DMACINML_01171"
/EC_number="2.7.1.148"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35221.1"
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4-diphosphocytidyl-2-C-methyl-D-erythritol kinase"
/protein_id="Prokka:DMACINML_01171"
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SNSPKGFEIISNFCEDNIITKAYWLLCQNGYQNELEEFKTKSLKLIKNIPTCAGLG
GGSSDCASFLMLINEELNLKLSTQKLIKSTQLGSDIAFFLSGFESANVSGCGEIEE
FNDTIPSLEWIFPEVSCQTKKVYDEFDKGEINFEKSILDAKIYKNLNTKELLETFKNT
QLNDLFTPCVTLYPKMFLFLQQDFFLSGSGSSVFKVHQ"
gene complement(91154..91381)
/locus_tag="DMACINML_01172"
CDS complement(91154..91381)
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KELLTQIKDENLHSVKNVDKLDLSDLSKLLIQ"
gene complement(91375..92193)
/locus_tag="DMACINML_01173"
CDS complement(91375..92193)
/locus_tag="DMACINML_01173"
/EC_number="4.2.1.70"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35219.1"
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/product="tRNA pseudouridine synthase B"
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MELLGKVSYPQFSKRIEGKRAYEFAKKGENVLKSCEIFSCKIIHYTHPFLQL
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gene complement(92190..94250)
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CDS complement(92190..94250)
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/protein_id="Prokka:DMACINML_01174"
/translation="MNLFTGLNESQKEAASHIDGPMLILAGAGSGTKTITTRLAYMI
GEVGIPAINLTLTFTNKAASVMKNRALSLLNSNENPLLCTFHKFGLLFLKLIHIERLG
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EIKHQALQKIAIYYQNYQEYLLKHNFDVDFDLLLLTNTLLENDQNFQSSFYRYIT
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VKLEQNYRSVGMILKAANLISHNKKRLGKTLCTKDEGEDIQILSSDNEKNESALVA
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CYFRILINPNDLSFKRIINRPKRSIGEKALQNLQLEDYAQRKISLFEALCESDGGVGI
FSLKKAQNEAKFIQNIYKLKEYSDLKMMIEKFEELFALKEFYALQEDGDERVLNIDE
FYASIKEKIKEPPTLEDILSEISLLSDQDQIEGECVYLMVHASKGLEFDHVFIVG
LEEGFFPLNESDIEEERLAYVAITRAKKCLSLSIKSRFYRGRTELDSSRFLEESQ
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EKAV"
gene complement(94247..94684)
/locus_tag="DMACINML_01175"
CDS complement(94247..94684)
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NPVLPENLDVKQNPFALFVLGGYTFESIQLKNIHQFHAGFGPDDFASYVKVDLGAIT
QIQVENSVLVNFVSYKRDNTKSQKSKNIFLSNPKNKDIFKK"
gene complement(94684..96399)
/locus_tag="DMACINML_01176"
CDS complement(94684..96399)
/locus_tag="DMACINML_01176"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35216.1"
/codon_start=1
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/product="peptidase"
/protein_id="Prokka:DMACINML_01176"
/translation="MLTWDLEVLFKNEDELENTTQNYIQQSKEFKKNYSTALDKLNPD
DFLNALKEYEHLHMLSKIMTYAYLCFAKDSSKGSFYAKYEQECKKIEENLLFFELEF
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SMAALKIPFEGNKLSEEEILSKLYNDRKIRKKAACKFTKALDKNLNLLTFIFNMIKT
ELSNICKLRGYESAETPRHLQNIQITQSVDSLQTTQKHFYLVSNFYKRKKQILGFNK
LKDYDRYAPIGKEAKFSFEESKKIILNAFYDFSPVFGDIAKEAFEKGWIDVYPQDKKQ
SGAFSHSATPDTHPFILLNYTDGRRDLFTLAHELGHITIQKLSYSVSLNQNTPLTTA
ETASVFAEMLVFDYVKNKLLKEELLALYA AKIEDIFATLYRQINFCTCFERRIHANENE
LKSEEISQIWMEESQKMFGESVELSKNYALWWSYIPHFIHSPFYCYAYAYAQLLVLAL
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FMRLK"
gene complement(96409..97290)
/locus_tag="DMACINML_01177"
CDS complement(96409..97290)
/locus_tag="DMACINML_01177"
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/protein_id="Prokka:DMACINML_01177"
/translation="MRHLITTKDFTNDEIMELFEEARNFLDEKPRTLLEGKSVTTIFF
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SGVPHILASHMHCPVVGDDGKHAHPTQALLDLFTIYEHFKGDIKGRKILIVGDIKNS
RVASSNTELLTRFGDLITLVAPPHFMPHSPLKKSYSLNEDLISKADIIMSLRTQTERH
NKIIYASLKDYANDFCIKLDLIKDKKLILLHPGPVHRNIDISDEVMDDERALILKQVK
NGVAIRMAVLKKLILEN"
gene complement(97296..98519)
/locus_tag="DMACINML_01178"
CDS complement(97296..98519)
/locus_tag="DMACINML_01178"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35214.1"

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LKNCSQEAKQIFVDINEGVLKIVKFIVKLAPFGIFGLVANSVAQTGAQGLLSYAKLLV
LLVLTMLFVAFVINALIVFIYTRKNPFPLIFICLRHSAFFAFFTRSSAANIPVNMALC
AKLGINKEFYSSISIPGATINMAGAAVTIAILSLSAHHSVGIQVSFLQAFLLSIIATF
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gene 98671..99870
      /gene="metK"
      /locus_tag="DMACINML_01179"
CDS 98671..99870
     /gene="metK"
     /locus_tag="DMACINML_01179"
     /EC_number="2.5.1.6"
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     /inference="similar to AA sequence:RefSeq:AAW35561.1"
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     /transl_table=11
     /product="S-adenosylmethionine synthetase"
     /protein_id="Prokka:DMACINML_01179"
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NEQSPDINQVDQEDGETGAGDQGMFGFASCEAKEYMPAAISYARALCDKVYTYAKA
HPQELGVDIKTQVTIDYGTKANFENCKPQSIHTIVSVPCVESMKIEDLRALVNKLIL
ESDLPKELFNPEKTRILINPTGKYVNHSSLHDSGLTGRKLIVDSFGGYAPIGGGAQSS
KDYTKVDRSGLYAGRWLAKNIVAAGLAKKCIVQLSYAIGVAKPTSVSVDCLGTNTGVN
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QFKTLIK"
gene complement(100233..101546)
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CDS complement(100233..101546)
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     /inference="similar to AA sequence:RefSeq:CDH61953.1"
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     /transl_table=11
     /product="FIG00470444: hypothetical protein"
     /protein_id="Prokka:DMACINML_01180"
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TFNTFSNVGFDKISIDNIFSHSNGDVRLNKNAYINKDGSINKGGVLIALLNSQLYGAT
SLLLLEGDTRLFGKITTDKNISDDEREAQSFMNANKIQSAFSYSSNPDEWNPFEERLS
MKLFIRSDNIGNTELSRLAIDLKEYQEMINSNMSLEEFKTKYLDKQRHDFVEKLL
KAAEKAKGIDYDKYPTGKPIDDTKAIIEAQKRRKPIQAESKNKETYKDDNKMNELKK
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gene complement(101848..102918)
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     /locus_tag="DMACINML_01181"

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CDS complement(101848..102918)
/gene="Int"
/locus_tag="DMACINML_01181"
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/transl_table=11
/product="putative apolipoprotein N-acyltransferase.
Functional classification-Membranes, lipoproteins and
porins"
/protein_id="Prokka:DMACINML_01181"
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FLRLCGIFCLSFHPLGFDLWNGIYTVYGFDPQSYRGIICIFLLAYIIHENYISRY
KIAILLIVFSIGFQYDEKKSSEDLNLSYKLISTDISQDQKFLQENVSVNSDNLIKEIIQ
AINEKKELIILPETAFANLKNLSYKMLKELSHQIIITGAFNIQEGKTYNSTYIFK
GGNSYILNKHFLVPFGEDIPFFKETIQKYFLPNIAEFDQGPLQSKYKLNQIITNAIC
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VIKPKEKQKIKNYFNKQDKS"

gene 103140..103412
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CDS 103140..103412
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/product="putative preprotein translocase protein"
/protein_id="Prokka:DMACINML_01182"
/translation="MAENSILTSLLPLVVLFAIFYFLVIRPQQKQAKAHKQMLESLQK
GDKIITNGGLICEVVKPEDDFIKVKNEDNVTAKISREFIAKKIDA"

gene 103405..104985
/gene="secD"
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CDS 103405..104985
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/locus_tag="DMACINML_01183"
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/translation="MRNSKITYRLVVFIAVFIQVVFSLPSFLQSERGAKINLGLDLQ
GGLYMLLGVNDQEAVKSKIKSVASSLSYFNKENILNDGLNIHDDSLDFTLLDNADIV
KTENLLKEINGLNVQREDMHYIVSFTPEEVKSIENFALLQAVETIRNRDQFGLAEP
VAKQGEDKILVELAGIKTKEDELRAKERITKAAHLQLMEVDDSKMSQASNMSDAEAS
YGLVLPDSRPNLKYPLKNIPILDGSMITDARVGLSDKSNYPVINFTLNAEGSKKFA
DYTGANVGKRLAIVLDNKVYSAPSINERIGGGSGQISGAFTQEEARDVAVALRSGALL
APVKLLEQRSIGPSLGADSIKMSMIALIGASIFIVFMVLYYGMAGIFANIAMLVNVL
VVAVMAMFGATLTLPGMAGLVLTVMGAVDANVIINERIRELLREGANIKASIEQGYK
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RRIEKSNNTRFWFGYRRK"

gene 104985..105956

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 ALAAIIEIHDVVITLGAISL FKIDVNLDTLAAVLTVLGYSLNDDTIIIFDRIREGIKT
 SKKSELTPIINESVSATLSRTVLTSGLTLATVVILYFFGGEMIQGFSLALIVGIVVGT
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 gene 105966..108398
 /gene="leuS"
 CDS 105966..108398
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 /inference="similar to AA sequence:RefSeq:CAL35208.1"
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 /protein_id="Prokka:DMACINML_01185"
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 QTVLANEQVEDGKCWRCGHEVVQKKMPGYVVKITAYAEELLSELENLKDkWPSQVLT
 QENWIGKSEGLEFSLNLDKKSLEKAKTQSFVFTTRADTIYGISYVALAPEHKIVQNL
 IQANCLDDEKVEQIKNMQKQSARERQMADKQGCFLGIYAIHPLTQEKL PVVAVNFVLA
 DYGSGAVMAVPAHDERDFEFANKYKLEIKQVIECEDAQLPHVQKTGKLIQSGEFNGLD
 CNEARARIISKFEDEKLGKRVINFKIRDWGVSRQRYWGAPIPMVKCKACGIVPQKIEN
 LPITLPEDIQITGEGNPLEKHPTWKNCTCPKCGQEAQKESDTLDTFFESSWYFARFAS
 DEKTWQEKALDKESVRYWMNVQYIGGIEHAILHLLYARFFQKVLKDLGYLEDNEPFA
 KLLTQGMVLKDGAKMSKSKGNVDPDDIINKYGADTARLFILFAAPPAKELEWND
 DAV EGAYRFICRLYDRAQNV RAGELLEFKHEDLNKEEKYARLKVYEALKKSFEVYTQSF
 AF NTLIAACMEALNALAACKNEALEQEA FYIILNILEPIIPHVCFELSDKLFKCNFKVL
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 CDS 108395..108907
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 /transl_table=11
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IKGQKRATQY"
gene 108891..110294
/locus_tag="DMACINML_01187"
CDS 108891..110294
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35206.1"
/note="hypothetical protein Cj1089c"
/codon_start=1
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/protein_id="Prokka:DMACINML_01187"
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IAKYDDFDTVVRKLLNKLEERSLEVFAELLTSLNPSLVEDLKIHGFAQNLQRPFL
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LKPDKGEVKLSFELLKQKFMQLSEKINSLNAQIEFTQNLEERESWSVLKELERLDEN
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gene 110266..111453
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synthase"
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FTKVGFDHTQILGDTLEKIARTKFKVMAKQALISNEQDERVLQMAQKIASLKNTKLYF
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DKK"
gene 111440..112342
/locus_tag="DMACINML_01189"
CDS 111440..112342
/locus_tag="DMACINML_01189"
/inference="ab initio prediction:Prodigal:2.6"
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EFHPGIDLRAAVGTPIYAPANGVVEFSGYSNDNGYGYNVILLHNFNGKTVFAHMVRKDV
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RRVPWQSLIKAVTAQHLAPVPKQQ"
gene 112387..112674
/locus_tag="DMACINML_01190"
CDS 112387..112674
/locus_tag="DMACINML_01190"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CDH62918.1"
/note="Protein of unknown function, DUF583 superfamily"
/codon_start=1
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/translation="MLHVDGELNGIVHSEIVVIGKNGNLKGLKADKIVVNGCFEGD
LEADSLEILAGGVSGNISIKDLAIENGGRFNGTSKIKQEEPVRLLSENSSE"
gene 112674..115613
/gene="mfd"
/locus_tag="DMACINML_01191"
CDS 112674..115613
/gene="mfd"
/locus_tag="DMACINML_01191"
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LESIRKFDPMNQSFPEYEELEICPFLTYFSEENYEDFKDKLENFNSDVLVNDINSL
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PRSLNQUALSSIKSYSVLQTPPEDRLDVRTFVKENDDALLKEAITRELRRGGQIFYYIHN
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FEEKIDLKL TINAF LNSELINEDRLRLELYRRLSKCKNIDEVYEIEGEIEDRFGKLD
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QNTLNFHDKGANHALLWGAKGTGKSSLIKAI FNEFKDKGLRLVELAKDDL FALVDII
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gene 117054..117866
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DMIKAAKYLCTQGAKAVLLKGGHSEENANDV LFDGNEIFILKGERIETKNTHGTGCTL
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gene 117856..118488
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/locus_tag="DMACINML_01195"

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 PYLIRPDYEFEEIPTYYQELLSLTPESNMKIFNIVAIKSIIEESTVNFAPVWINLDNN
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 gene 121792..122439
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NADYIRYLKIKAKFDAFAVPNRNQALMLESQKEIDSFLNDYPYTEYEPLVQTMLTKFN
LAVFYLNDTIRDLYERTGHTQSAEIYQERLQESEFYHQSIKPELPWYRSIFEKF"
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gene 122455..124830
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/inference="similar to AA sequence:RefSeq:CAL35190.1"
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gene complement(125153..125701)
/gene="ssb"

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gene complement(125710..126087)
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CDS complement(125710..126087)
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 /product="30S ribosomal protein S6"
 /protein_id="Prokka:DMACINML_01206"
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 NNDTILAIINGIKIQSFDEISDHLSEPLKILIDRKGLENLEFIITPKLGQAYNDFGQII
 PKAQLGVSPSGSTAIYHQGMQSINYALDESMKASTLIVKGIKILISGEVEAKNLGGI
 ITMTELTSKAAEKSLVILLFITALISINLILNLLPIPMLDGGHILFNLYEMIFRRKV
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AALSDFFDGFIARTLQQTTLGGILDPLADKMLTAAFLGLLLLSGKANEWIVYLILVR
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/translation="MREINLKEDLEKIYPLIKQLRNLSLEDFLDKFQLATKTQHYKL

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CDS 130964..133720
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CDS 133832..135199
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PKGCTLDDAEKIFSKNKVEKLPVDEQGRLEGLITIKDLKKRKEYPDANKDSFGRLRV
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ORIGIN

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gene

complement(12053..16456)
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CDS

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gene

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CDS

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gene 23385..24455

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gene

complement(32173..34539)
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CDS

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gene

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CDS

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GSPVL YNTDIEVAKGGMGFRNNF GLEYEGENLLAKNAPINSPIDTGYPQITKDNI EKV
LGITLSAEEKEKMGAIWSYD DSNI IATKCI EKGI VPYGN AKARAVVWTFKDQIPLHRE
PLHSPRNDLVQKYPSFEDQKALYRVDTKFVSVQKAKDYSKEFPLNLVTARLVNLNGAG
MENRASYMLTRLTPMFCEINPELANEQKIKAGDMIWVHSPEGTKIHVRVKLNPGVAK
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ISKDGV"
gene complement(60166..60708)
/locus_tag="DMACINML_01275"
CDS complement(60166..60708)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:EAQ72607.1"
/codon_start=1
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/product="formate dehydrogenase"
/protein_id="Prokka:DMACINML_01275"
/translation="MSSMNETIKLNRFSFLKMAALSSLASPLLARSETLREANDELK
EAYEGSQKIKSVCTACSVGCGIIAEVQNGVWLRQEIAQDHPVSSGGHCCKGSDMIDMV
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YIRKFAAFFGTNNVDHQARI"
gene complement(60708..60899)
/locus_tag="DMACINML_01276"

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CDS complement(60708..60899)
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 /inference="similar to AA sequence:RefSeq:CAL35618.1"
 /codon_start=1
 /transl_table=11
 /product="putative periplasmic protein"
 /protein_id="Prokka:DMACINML_01276"
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sig_peptide complement(60810..60899)
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 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 30"

gene complement(60874..61575)
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CDS complement(60874..61575)
 /locus_tag="DMACINML_01277"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35619.1"
 /note="hypothetical protein Cj1514c"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_01277"
 /translation="MDLEKRLRLARSLYYQCLGELFVFSFSENRLCNLKAYLEAMQEGL
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 ANKQRRSREKSQGIS"

gene complement(61908..63056)
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CDS complement(61908..63056)
 /locus_tag="DMACINML_01278"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35620.1"
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 /protein_id="Prokka:DMACINML_01278"
 /translation="MFYKFKQTPAYILEEDKLRKNCEILANVGEKSGAKVLLALKGFA
 FSGAMKIVGEYLKGCTCSGLWETKFAKEYMDKEIHTYSPAFKEDEMSEIAHLSHHIVF
 NSLYQFDKFKSLCTNNSLGLRCNLEFSFAPKELYNPCGKYSRLGILSKDLENDLSGV
 EGLHFHALCEESADALEAVLKVFEEKFGKWIKQMKWVNFSGGHHITKQGYDIQKIITL
 CKKFSDKYGVQVYLEPGEAVGWQSGVLVASVVDIVENEKRIAILDTSSEAHMPDTIIM
 PYTSEVLNARILATRENEKISDLKENEFAYLLTGNTCLAGDVMGEYAFKEELKRGDRV
 VFLDQIHYSIVKNTTFNGIRLPNLMLLNSKNELEMIREFSYKDYALRN"

gene 63180..64721
 /locus_tag="DMACINML_01279"

CDS 63180..64721
 /locus_tag="DMACINML_01279"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35621.1"
 /codon_start=1

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FINFAPKNLKLDPKQFPQGEILKALPLLKNESKEKNIFRATIEIKENHIELIKGKKT
LFYTYNGLIPAKIEVFEGDKLEILVKNELKEATTIHWHGVPVPPDQDQSPHPDPILAG
EERIYRFEIPQDSAGTYWYHPHPHFTTSKQVFMGLAGAFVIKAKKDALSHLKERDLMI
SDLRLDENAQIPNNLNLDWLNREGELVLINGQFKPKIKLTTNERIRIYNATAARYLN
LRIQGAKFILVGTGGGLIEKPIFKEELFLSPASRVEVLIHTPKDGEFILESTYYDRDK
MMVKEEPNTLFLADINLKKENLKLKPNLKNFKPSEEPKEFKEIIMSEDHMQMHGMKDK
SEDELKTALASMFLINGKSYDLKRVDLNSKIGVVEDWIVINKSHMDHPFHIGTQFEL
ISSKLNQKVKAEFRALRDTINVRPNEELRLRMKQDFKGLRMFCHILEHEDLGMGMN
LEVKE"
sig_peptide 63180..63248
/locus_tag="DMACINML_01279"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 23"
gene 64723..64944
/gene="moaD"
CDS 64723..64944
/gene="moaD"
/locus_tag="DMACINML_01280"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35622.1"
/codon_start=1
/transl_table=11
/product="putative molybdopterin converting factor,subunit
1"
/protein_id="Prokka:DMACINML_01280"
/translation="MVKVEFLGPINKPKLELNKLNKELKAILQEDESLEWLELCAV
SLNDEIVFDENTSCLKDGIKIALPPVCGG"
gene 64945..65391
/gene="moaE"
CDS 64945..65391
/gene="moaE"
/locus_tag="DMACINML_01281"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35623.1"
/codon_start=1
/transl_table=11
/product="putative molybdopterin converting factor,subunit
2"
/protein_id="Prokka:DMACINML_01281"
/translation="MSEFVL TNNALDIPQIYAKWYEFKDKNCGALLTFCGIVREEGG
IEALSFDIYEPLLKKWFDEWQKRVEEVEGVI LLFAHSIGDVKTHESSYLAGVLSKQRKL
GLKLINEFVEDFKASAPIWKYDVINKQRIYAKERSSKLCGAGLLKS"
gene 65435..66625
/gene="moeA2"
CDS 65435..66625
/gene="moeA2"
/locus_tag="DMACINML_01282"

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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35624.1"
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/product="putative molybdopterin biosynthesis protein"
/protein_id="Prokka:DMACINML_01282"
/translation="MLMSYEESLKILHSHIKPFSRVEKIALTECLGRILAQDIKASKN
QPEFLTSAMDGYAIKFEDQDKPLKILGITPAGTMPEFKVENDTCVKFTTGLMSEGSD
TLVPVENVRVEKDTLFIKKVSKGFAVREIGENYKKDEILLKKGTKLSYSEIALLAEL
GFFHISVFIKPIIGVLSSGSEIKDLGEALENPAQIRSSNHIAIASLAKNLNCDTRVFP
LLKDDEKATFSTLESALQSCDILVTTGGVSMGDFDFLKKAIKEYELIIDKADIKPGRH
IKIAKANEKFIIALPGFPYSAMVMFNLYAREILNSWLLQPKDYICKAFLQGSYKKKTP
YLEFVACNVEFKNGRILANLEGKKEGSSAIINNLNKAALMIAPKECEILENESLVDI
IFMP"
gene complement(66642..67904)
/locus_tag="DMACINML_01283"
CDS complement(66642..67904)
/locus_tag="DMACINML_01283"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AHY40701.1"
/codon_start=1
/transl_table=11
/product="2-amino-4-hydroxy-6-
hydroxymethyl dihydropteridine pyrophosphokinase"
/protein_id="Prokka:DMACINML_01283"
/translation="MQNLHEILVQKKIKEIRFKAIASIVCGFLSIIPYLGVLFNLVSW
ILFFILLYDLKIYGGAKNLFKNFFIATGISFFGLVSTSSLFVILKPRIDFFGNFYFN
QDSIFSAITTFVLFIIALALIFPFLKAFYIEIARVTKQKYFIYAFNTCYLGLLTLII
GIGLVFLLASLIFWIFAWIKFEELDKQEFSHSQEMAVKTQKKVDFDLKWIKITMALF
LVLSFVIFGLKFTQRIIFQSIRRGFFYFEDYDKLIYNLVDIRYVVLVHIATFLALLSVF
LFCKKLTXYKMFYFLIWQVLVIFGWNLRFILKLIMGEDVFIENFILDKIIISIVCIII
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ISFTLAYFISFLIVWLSLKGQKEVKKVI"
gene 68213..69667
/locus_tag="DMACINML_01284"
CDS 68213..69667
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ADN91657.1"
/codon_start=1
/transl_table=11
/product="C4-dicarboxylate anaerobic carrier, putative"
/protein_id="Prokka:DMACINML_01284"
/translation="MPIFMICSTLLAVIVVAYYILKKYNPIFVFLLSGIILLIFAFYI
TGAPIPKAPSREHASFLDVLDSYAFITETFKSQLSGVGLIIMSVAGFAAYMKHINAS
AKLAFLANKPLGKIKNKYLILSGTFVGMALKIVISSYAGLLLLLLACIYPVLISLKI
RPITAVCVLSLIALDYGPKDGNSINMADMVQSDNVVGLFLNYQIYSVIAYVVVIAIL
IPFYFAWVDKRDKEKGINDEVEIPPIIDPKCPTFYILFPWLPVVFLFIAYFFTICKLD
VVTANFLSISLVFLVEFARHKARKLGEDMMVILKAMAEIFISVVSIIIAAGVFAEGI
KALGGINILANAVSDLGTGNFAWFGILLSITVLSFLVYFATVIMGSGIAAFNAFGKLA
PDIATKLGVAPITFVLPPIEIASCLGRAASPIAGGIIALAGFVKVDPMDIIRTTPLLL
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gene complement(69701..70681)
/locus_tag="DMACINML_01285"

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CDS complement(69701..70681)
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 /inference="similar to AA sequence:RefSeq:ADN91658.1"
 /codon_start=1
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 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_01285"
 /translation="MKILFHADGFGDLLVCFKALYAIAIKQLYPEYKLSLLTDGAMEGSF
 LEKISFIDEVLIYKNDFFELIENKNPAIFISTRQGSYFKKLLLNIIQKICIVYPHFVS
 ISSKKFTTFFPFRAKKHMSEIVLKLVRRAINAKHFDFKNFAKINFSKVNLLPYDTKLS
 DDFFNKIDIEYEKIIGINAFSNYSEYVGCNFFIKDWIGLARQLSLKYPKYL FVLLNYD
 KNSIQYNIDQSSNLKVFVNNASIASLVSISKKLDFLVTIDTGNLHLCDILQIPTLAFT
 RELTAYRFGGGSYGGKFDHLIVKPGWQKEYRKIYETFTQKAEQNLKNSF"

gene complement(70729..71949)
 /locus_tag="DMACINML_01286"

CDS complement(70729..71949)
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:AHY40701.1"
 /codon_start=1
 /transl_table=11
 /product="2-amino-4-hydroxy-6-hydroxymethyl dihydropteridine pyrophosphokinase"
 /protein_id="Prokka:DMACINML_01286"
 /translation="MQSLNEILVQKKIKEIRFKAIASIVCGFLSIIPYLGVLFNLVSV
 ILFFILLYDLKIYGSANL FKNL FITAGIGFFGILINTSILFAMLPRTGIFGGLYFN
 QDNIFMAIAIFLVLHFAILALIFPFLKAFYIEITRATKQKYFTYAFNTCYLGLLTLII
 GIGVVFLLASLVFWILAWIKFKEFDEQELSNLEERLAKTQKKVDFDLKWKIKITMASF
 IILNLLVLTFSFILEIIDFEDFRFYTKKTLFYTAIILALLSVFLFCKKIKNYKLFYI
 FFIWQGLSVFGSYLLFIPALIINDILIAYGSLMMALNLCYIILAF LF FKT LVQITKEK
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 VWLNLKGQKNAKIC"

gene complement(71959..72666)
 /gene="tam"
 /locus_tag="DMACINML_01287"

CDS complement(71959..72666)
 /gene="tam"
 /locus_tag="DMACINML_01287"
 /EC_number="2.1.1.144"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="protein motif:HAMAP:MF_00560"
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 /transl_table=11
 /product="Trans-aconitate 2-methyltransferase"
 /protein_id="Prokka:DMACINML_01287"
 /translation="MYEILHTKAPKNELDFYLSYANKKDKILELMCGSGRFLLPFIES
 GFDISGVDNSTSMLEKLEKAPNAKITKCDVLAYHSDDEFDYIFISSGSLCLITDINE
 CKRLLRNLSFLKKGKLVFALDTIMTRCKDDSDYKISIKVKTEQNLDLILKNKNHYD
 EISKTQFSPSIYELYDKDKLLQSEKMDFKIHLYDLKEIENILEELEFERFFIYSSFDK
 KIAKDDKSEMFLCECIK"

gene complement(72699..73688)
 /gene="purM"
 /locus_tag="DMACINML_01288"

CDS complement(72699..73688)
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/inference="similar to AA sequence:RefSeq:CAL35629.1"
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/product="phosphoribosylformylglycinamide cyclo-ligase"
/protein_id="Prokka:DMACINML_01288"
/translation="MKISYEDAGVSIDNGNAFVEAIKPLVKETFNDKVVGGIGSFAGA
FRMPSGFKNPVILGATDGVGTKLRLAIDAKKYDTIGQDLVAMCVNDLICNFATPLFFL
DYYATAKLEVEVAKSVVAGIASGCKMANCALIGGETAEMPGMYAKDDFDLAGFAVGMA
EEDEIDRSKFKVNGDILLALPSSGLHSNGYSLARKVLFESLKLKFDCKIEGKNLIDVL
LEPTRIYVRDFLTLPYINALAHITGGGLVENLPRVLPKGMGATIRKHHKLTPEIFYT
IGQAVEESEMYRSFNMVGLVMVVDPSNVSKVLENSDAFIIGEITINEGVVLE"

gene 73749..74354
/gene="coaE"

CDS 73749..74354
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/locus_tag="DMACINML_01289"
/EC_number="2.7.1.24"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:A0H52517.1"
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/product="dephospho-CoA kinase"
/protein_id="Prokka:DMACINML_01289"
/translation="MKNAFFVTASIACGKSTFIEIANS LGFKSISADSIAHEILDKYA
LELAQIFSKFHKNLLKAEGKIDRKILGEIVFQNK EAKTILENFTHPKIRAKILEQMQ
ILEQENKPFVEIPLFFESGAYDGLGKVIL IYAPKELSLKR IIQRDNL SLKAAKARLD
SQMDIEEK LKADFIKNTGSYVDFRQECVKVIQNISKGQM"

gene 74351..75100
/gene="dapF"

CDS 74351..75100
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/EC_number="5.1.1.7"
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/protein_id="Prokka:DMACINML_01290"
/translation="MKLYKYCASGNDFVIMNANEKKDRSALAKELCNRYEGIGADGFI
VILPHEKYDFEWEFYNDGSTASMCNGSRAAAHFAHHINGIKPHMAFLT GAGVIKAN
VDNNSVEVSLGKIKNIQEAFSECEKSWQLCDTGVPHLVHFCENLDEFDLK LCKQMREK
YNANVNFVKVENDNTLKVRTFERGVEDETQACGTGMGACFYLAFLNKKIHNQARIIPK
SGEELSFKFENEELFFKGKVR YCFEADYNFS"

gene 75075..75806
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CDS 75075..75806

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/translation="MKRIIIIFLSFYLLPLFGDSELKNGFGEEYYKLNVEQKRQIFFTK
MNAMFDKSFEEIAKERAFVEAFFYDVYKNGLRHSNQSNLEKLIIDLKKNYRVENLYDFT
EYKKRIQKIPKSMGMAQALVESATGTSRFAREANNLFGEWWTGEGKGLTPDLRHPDKKH
KIRIFDSLQDSVDSYVLNLRHFAYEEFRNKRAKFESEGKEITGLEAIKTLDSYSERK
GYVINIVTKIIQRYDLERYDVSNSF"
gene complement(75813..76850)
/locus_tag="DMACINML_01292"
CDS complement(75813..76850)
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/note="ATPase, AAA family (DUF4143 domain)"
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NYLSQFKPNEILFLNLYDTRFENQSL EHL SNFLEKNAQIKFLCIYNVDFALNLQDIKI
PIIISTDKKDLHIEGFQELDYFD FEEFVSISRKNLPINNLVGLFLQSGRSKLG EKN
ILLKQNFNTLELEILKYLALNLGQQ ISISKLFLELKKK LKTSKDSVYHTIKELENTYI
IHPISHDEKKLQKIYFRDFGLRNNLCIQKDFTHLFENLILNELFKFKQEFFYNKFFTF
YSKASKIAYISSPTLDIDLIKLRACKILSKSLELGIFHVVFITLSSSEDSFFEQGVKFE
VLPFDKFSLGF"
gene complement(77006..78163)
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CDS complement(77006..78163)
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IQAKFEAIKFNKENVAAVCLNDKWGFVDKKGKIAIAMKYDEVKDFSQSLAGVRIDNWK
GFIDKKGNFVIQAKFEAIKFNKENVAAVCLNDKWGFVDKKGKIIKAKYDFIDDKDDE
MVMFGSKRGLCLLLSKENILGCFHEGLALARINKKYGFIDKNENWVIEAKYDEVEDFY
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gene complement(78235..79716)
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CDS complement(78235..79716)
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/codon_start=1
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/translation="MFFSKSKYTRGAQCAKSLWLQTYKKDVLSPDENTLARFSAGDK
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NTKEGFIINEVKSSTSLKDVIIDCSLQYYVLSNLGYKIKQVNL IHLNSEYYRDDFLD
INQLFKVNDITDEIIQKQEQVKENLKYFEDILNKKEEPNIDIGTHCFDPYECGDGYEYC
WIKQRNLCEKDSIFNISRLNSNKKFEFYKNIISFKDIKDLVFNKNQQIQIQASLNK
EIYINKEIKIEFLNTLTYPYIHLDFETFMQAVPEFKGVKPYMQIPFQYSLHIDYKDKL
EHKEFLSECGVDPYELAKNLINDIPKDACVLAYNASFERGVKLNALVFPFSEHLL
NIEKNIKDLMIPFQNKDYHYKMQGSYSIKKVLPALIPDMEQAYKDLNLIHNGSEAMQ
SFEAMQNMSEDDKAYRQALLEYCKLDTLAMVKILKHLEEIAS"
gene complement(79778..80419)
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CDS complement(79778..80419)
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NISKNHTNAVIIIAIVYIVIAIVLVVYGIKGRIVVYRNLLDVSLCVLFAALPIVWI
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GLWFGLSLFGAIKRGEKTVARERKEDKQNSLVHFAISSTLIYNLIKDKPFKNS"
sig_peptide complement(80339..80419)
/locus_tag="DMACINML_01295"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 27"
gene 80564..82501
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CDS 80564..82501
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/inference="ab initio prediction:Prodigal:2.6"
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/transl_table=11
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component McrB"
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/translation="MSDLENSLKGFKDKDFGYYFGKDEKCYIYHTKFGRRERIEINES
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IVDNFSKTFGKEKIDEIPFDQGNFKKIDIFEKWWDKSINSARMKGNATNLLKDKDKLIK
NLEKIKKADESENLTKLFEKLKEVEGMKATARELAYFLQFNKDKDKFPLANDAMINI
AKYIFEILNENPTEIFDSSFDNCKKEEYFDDVFGKLEIANDNLSEEIKEKIEHLPKY
YILDQFLNLIDKIKKSDLALITKDKLAKNDGSKDIKQSVYYKLYQAAYDFANLCKGAD
IKSNDLEGFKELLKTHKNIIFHGIPGTGKTYTIVNNIKNIKNENQMLITQFHPSFSY
EDFIEGIKPTGIENGQLKLELKNIGIFREFCNKAKEEEKEFLGELEKGNFNEALSDYGY
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DLDKSIDSFDLALRRRFIWQEMTCDYDVIKNEIYAKNIEEYAQACKKLNKIKDIGEK
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gene 82470..83819

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/gene="mcrC2"
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 component McrC"
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 FKGNI DMVEFIKHNIPLKAKVATKTREQIEDVHIINVLYKALQVIEKKNSSFLKNVKH
 IKTYLVQNKSEHCFIKESLNKAFSSKALRNQNYQNYKELLKYAKMII ESENFTSKNKN
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 DNYIVFDTKYKMTMEGKSQNGMGDLDRNDLFQIHTYMGYYQKIGKVLGGLLYPMQN
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 CDS complement(83824..84510)
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 TERKISFISY"
 gene 84749..86167
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 CDS 84749..86167
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 DFKDIEYDKYRKAKDIVKDKWDELCKELVSKFFHELKEKFEKAQSINKHGQWLGCELD
 ENRFNYDWFDFYPEIYKDEDDVWPSIGVYFGSKYNHFG LTFKINYLEGDEKYKQCIN
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 gene complement(86173..87090)

CDS /locus_tag="DMACINML_01300"
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gene complement(87335..87784)

CDS complement(87335..87784)
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/product="putative bacterioferritin"
/protein_id="Prokka:DMACINML_01301"
/translation="MSVTKQLLQMADAHHLVVKFHNYHWNVKGKLFYSIHEHTEKAY
EEMAELFDDCAERALQLGEKAITCQKTLMENAKSPKVEKDCFTPVEVMELIKKDYEYL
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gene complement(87910..89130)
/gene="pgi"

CDS complement(87910..89130)
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/locus_tag="DMACINML_01302"
/EC_number="5.3.1.9"
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IDESLNFIQDKEHIKNIVLVGMGGSSCGVKALRDMLFDEKSNQRELFILDNTSSHSFN
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KEGENLGIKCFIPANVGGRFSILSAVGIVPLCFCGYNAKALLEGAKACFEDFFIHKK
DEILQKAYHYCTHKSANINVLFSYSDAFKGFNEWYIQLIAESLGGKQGYKRIGLTPIA
LIGARDQHSFLQLIMDGPKNKTITFLKIKDGQKAPVIPDIHFKFLDDL SNKVNLDLL
NAQC DATMHALIAENLSVDIIELEKLD AWHAGYLMYYYELFTSACGVMLGINTYDQPG
VEVGKLILKNILKS"

gene complement(89124..89948)
/gene="galU"

CDS complement(89124..89948)
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/protein_id="Prokka:DMACINML_01303"
/translation="MLQTCIFPAAGYGTRFLPATKALPKEMPLILTKPLIHYGVDEAL
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EVPKEQVSSYGVIAGNFVEEDLIMVNSMIEKPSPEAPSNLAIIGRYILTPDIFGILE
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gene complement(90054..92027)
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CDS /locus_tag="DMACINML_01304"
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/protein_id="Prokka:DMACINML_01304"
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IVIRNNEPIEYIKGRDYVYNELVKNESYKCEPEIMDSEDLFLLYTSGSTGKPKGVMH
ASAGYILWAQMTMEWVFDIKDYDNYWCSADVWITGHTYVVYVYGLACGATTIMHEGTP
TYPNSGRWWRMIEEYQVSKFYTSPTAIRMLHADAPDEPKKYDLNTLEVLGTVGEPINP
SAWQWFYENIGNSKCSIVDTWWQTETGGHMITPLPGATPLKPGCATLPLPGIFAEVID
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DDNGYITITGRDDVVNVAGHRIGTAEIESAIAKHPSVAESAVSVLDAIKGESLFAF
VVLNPTSSCDLGGAIETLKEINDILRAEIGPIAKIEKILYTTGLPKTRSGKIMRRILR
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gene complement(92168..93163)
CDS /locus_tag="DMACINML_01305"
complement(92168..93163)
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ATP-binding protein"
/protein_id="Prokka:DMACINML_01305"
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RVLKFLGEGFDNITYFGNKHLNSDEKRQIYLLFPEPVFLNRSVEKNFYFLKTYKLDL
KEIKKRLEEVNLNLEIDRSLKYPSELSSGQGQKIAFALALSARAKYYLLDEPSAFL
DKDTMILFKKAILYMQKTYKSGFLIASHDKNFLDSLAKKYYLHAGEILEFENTNIFE
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gene IIALRTRKEFVFIRVECGSKILEFALESKRFKQEKLSLYQELCLAFNEEAICFLN"
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 CDS complement(93164..93850)
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 FPLGFALGFFFEKMKRFIKLIVDTSLSFPTVAVGLILYALISSRGPLGDLGLLFTVKA
 LILGQFVLALPIVIALFSNLIENMNKHFLLIKSLHLSPLKLVMTIIYELRFALVSVV
 ALAYGRIVAIEVGVAMIVGGNIKYDTRTITTAISLETNKGEFASGIALALVLIFIAFIL
 NFIIHKLKRY"
 gene 93934..94743
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 CDS 93934..94743
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 /protein_id="Prokka:DMACINML_01307"
 /translation="MKKIISLALALALSASAAELRMATTTSTDNTGLLDALKPLYEKE
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 QQSGQGMLASIKIAEKKGVILTDRGTYIKYEANEKGNPNLVIVNEGDDNLKNFYSSII
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 sig_peptide 93934..93987
 /locus_tag="DMACINML_01307"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 18"
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 CDS complement(94740..95156)
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 YAYLNGNIDIKADMIPFIADALGVFEQELFSNKKEENLKIVHKLYRNKASHQNYSNLL
 ELLEFLSPKNLEILEEILLQNKAKSLEISSLLRNNF"
 gene 95278..97500
 /locus_tag="DMACINML_01309"
 CDS 95278..97500
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 /inference="similar to AA sequence:RefSeq:EAQ72655.2"

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DRKFIKFLTPASSTIIMNRFKFLLEGGNDQEFVGHGYEDFDLMMRILKNCTDFEAIPT
NLEFDYRNWSFNDYKGFALFSVVGNEACVHGIYLYHLWHAEPNQNGYLDNRELNHQK
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YFFDEKDKFNSKNFLKFYHQNNITHIIFPNSHANEKRLEIFQFIREKKLPIVYDRGA
LPDSWFFDDKGFNYDSTSDEKNWNKTLNEEQKIKLTYIEEVKGEKFLKQGLSKG
SDNLKRKGLRHKKIFFVPLQVKDSDVLKNFTYEPFSYENFLNILNELAKKLFIEINIV
FVVKKHPLSLDLDKTTYDNLIFVPDDTNLNDLLGLCNAVLTLNQSGVGVYAILAKKPCI
VCANAFYRFDNLNLQANNEKELFEHILNISQGNFNFNEEKALRFIHYLRYEFYSFGKS
YYKKSEENGRIYTKVYKIEFYSLILFGKLLDFNSIKKQNYKLNPSPIYKPYIYEIKEK
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CDS 97497..98663
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LKFLEECENIIYLDLDFMLLLKGIDELKEIKNKGYEIACFRGSATMSMGGGQLTPIQFT
HTNNYSAGIIVFNDNLKSSQKFYDFIYQFIAKNEDYFLEVKLGQDFLFSLYLLEKGLK
IYELNDNYYGNISWVKS KDASILHAWGQNNRFWNNKLCALAWPSWNVVYQKWL SLGGS
AYEKGFSVFLVLPQSGGEVFQYFERIVLAKRISQIKLEKQELIIDIDFSKKIKFHAF
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gene complement(98941..99609)
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CDS complement(98941..99609)
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     /transl_table=11
     /product="2-amino-4-hydroxy-6-
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     /protein_id="Prokka:DMACINML_01311"
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gene 99826..100596
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CDS 99826..100596
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VMDKTLNLAKQNNVCIGAHPSYPDLLGFGRNMQVSFEEAKNYALYQLGALFAFAKAK
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YANEVFADRAYNDDGTLVSRKLEGAVITDEDLAIKRVIKMIKESKVTSSINGKEVDLKA
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gene 100618..101787
      /gene="mntH"
      /locus_tag="DMACINML_01313"
CDS  100618..101787
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      /inference="protein motif:HAMAP:MF_00221"
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PPIGEALFRTFIPTQIDVISIVTLVGGTVGGYIVFSGAHLIDAKLYGKENLNYINKA
AVSGIIITGIMRVILFLAVLGVVSSGFILDKENPAGSVFHHALGDLGLKIFGIVLFLA
AISSVIGAAYTSVSFIRSFHPWIEKYNRVWIFFIIVSTLVFYILGKSPASILIIVGT
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gene 101789..102529
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CDS  101789..102529
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      /protein_id="Prokka:DMACINML_01314"
      /translation="MFSIHFGSKAVLLRFKQEISPQINALVLSTEARIQKGINENEI
YGIDELVSAYSSLLIYFNPCVLSLNSLLDFLEKIKKDIKITDKSNLCIEVPLCYDEE
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TKIEAGSVGIADKQTVYPISSPGGWQIIARTPLEFFNKEDEKNPTLLKAGMFLKFKA
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gene 102510..103475
      /locus_tag="DMACINML_01315"
CDS  102510..103475
      /locus_tag="DMACINML_01315"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CAL35643.1"
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NLSKRECENPVFQFAKEPTIRVVLGTNDDAFTQNGLNTFLNTSYKIGLKSDRMAIYAE
AQAMIEHKNSADIISDPAVFGSIQVPKNGLPIILMAGRQSTGGYTKIASVIENDLPLL
AQAKLGTNFKFENISMQNALELYKQREERFKTLDKKINLDFENLI"
gene 103484..104248
/locus_tag="DMACINML_01316"
CDS 103484..104248
/locus_tag="DMACINML_01316"
/EC_number="4.2.1.-"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:UniProtKB:Q87UC6"
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TPDNAKKASEITANFPLVHGAPVQIGNAKEIGINNVLKADFDDPIIREGEIPVFWAC
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gene complement(104245..105144)
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CDS complement(104245..105144)
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ALFLSCAFIWALMAVFTHKAKGTHPLAINFYINLMSLLMFSWVFLDLKSYEIFQDFK
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gene complement(105278..105862)
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gene complement(105873..106307)
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/inference="similar to AA sequence:UniProtKB:Q9R381"
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gene complement(106315..107505)
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CDS complement(106315..107505)
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FGVSVSDAGWSVSIFALIVMCCAPIAPMLCANFNPKKLMFLCLAI FSLSSLASMFVND
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SYFGGNFSFEMAMAFYVINSLAFFITLFFMPDFKKT SRIKVGKQLLSLRYALLWISM
LAVFCISTGYLGFYSYSEFLFSVSKMSFTNISLALFIYGFASIIIGNNIAGKTLINHS
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gene 107636..108088
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CDS 107636..108088
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/inference="similar to AA sequence:RefSeq:AFU43554.1"
/codon_start=1
/transl_table=11
/product="Blc protein-like protein"
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STPVVKIKNICVKKDGEVSQVQGKAKVKS PRALSVKFSIFMNLFNKTNYEILFVDTDY
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gene complement(108085..108663)
/locus_tag="DMACINML_01322"

CDS complement(108085..108663)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AJP35953.1"
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/transl_table=11
/product="Chloramphenicol acetyltransferase"


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gene complement(108672..109751)
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CDS complement(108672..109751)
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/inference="similar to AA sequence:RefSeq:ADT66781.1"
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family"
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RNENKKADALAMGVSSFYTSTDKNAVKERFDLIISTIPTPYDPSAYMDLLKFGGEMAI
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gene complement(109927..110166)
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CDS complement(109927..110166)
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KRVLNKYGYPPDMQQLAIDGVLAQAEILAKELVGE"
gene 111006..111776
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CDS 111006..111776
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/protein_id="Prokka:DMACINML_01325"
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HDAFYFGICKIEKIVKKQDDKIDKYFLKLNKHYENMLLASLSITPIVGEYLGKQNFQNH
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gene 111788..112417
/gene="rloF"

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CDS /locus_tag="DMACINML_01326"
111788..112417
/gene="rloF"
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DIVETGEKHFLGTIVYMSDKKTSASFQKYIIIDGQQLTTIMLILKALHDIALTINDK
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YLEKLINENSLTPNQILEALFSLIVEIVLEQ GKDDPQIIFESINSIRG"

gene 112648..113733

CDS 112648..113733
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/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
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NLTVTGYNSTLSNKSFQEKIKTLKLSKAIFLNKDVISEKHWTFDKIETRGRKLAEFFA
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gene complement(114546..116003)

CDS complement(114546..116003)
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LDKKTQE IFSKAYVYGLKPQEEQFFKIKTHLKGGEHLGLFENEI KEFKPFKITTLQE
IPLSVIDISDCLKEEKLDEFKSIFDIYKDLQNVNDTVKQKQEECVKSYSDWFLFNAN
IDEIKNKVLEVI EDYDKYGEI KEVELREDIYSFFDKSKNNLRVKSMMWTCEEDNFSFD
SDAELEWLEILEDVAYSCKKISIDDKEIYLF GKNYIEKSNIKYEYD LKKHTSYPDF
IFKDKDKIHLFEVKS LNLHNGNDIDFKEYREKIEK LKKAYLFASKKTGYIFYIPIKI
GNDWRVWRCENGI EDKGDKIMNKDMFKKY LKDLQK"

gene complement(116138..116578)

CDS complement(116138..116578)
/locus_tag="DMACINML_01329"
/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1

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gene complement(116582..117760)
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CDS complement(116582..117760)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AGQ95763.1"
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VEWGIENDFIVVKNDRITYTKSYEKCRKKNQDQIEFIDGKSFTTSLFIENENSNDNGK
E LDLILANDNNKAPFSNPKPSSFLINLIKMVSPDENGSDIVLDF FAGSGTTGHAVMQ
LNKEDGGKRQFILVTNNEITDINPNGIAYDVTSKRLKRIMTGSCYDGTNDFKWLKDNK
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gene complement(117924..118208)
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/protein_id="Prokka:DMACINML_01331"
/translation="MADNLEDLRQDAISKIQERMQDGI ESENAEFLTKLLENANAKA
DILKILALGMTYKKTGFHFEPKLEKNTNTINYFKKNESLSFTNGGGGFTA"
gene 118321..119589
/locus_tag="DMACINML_01332"
CDS 118321..119589
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/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
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RINKGIYNAWDNTQINKYIPEDERNIDFKHMVYLG DGETDIPAMKLLKDKGGLSIAVY
DPEHPKEKIDNVEILVDNERAHFVCEANYEENSSIDL IIKNYIDKIALETQFGKCRAK
QPSNDKNEVFKDDDDAKITPEDKINNALKLLEVDKIS QNQEDNAIYLKASAYDDYGYQ
TSFYIWSGKKYIGFAKIAEKNQVENKHTSEN LKKEFNKLDEKFISKITFKNNNLNKEQ
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gene complement(119824..120474)
/locus_tag="DMACINML_01333"

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CDS complement(119824..120474)
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VRF SARVEGILEDYRAKRLSESEFKDLLKDPLEQNLAKDFNNADVGQIIALLDSEFS
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gene complement(120994..122109)
/locus_tag="DMACINML_01334"

CDS complement(120994..122109)
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/protein_id="Prokka:DMACINML_01334"
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GDTRIFRIAYGEGEKYIPLLQEAYTLWGEFEKEQNIKLFERCGLLNIGSNSTFMQNVL
LSVKNYDLKAKILNAKELQENYNICVSDDFFGVLETDGTFVYSVLSVKSAINAACKLG
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RRKVVNWFDTSYKLSQGFPAFILEFEDDYFYGFPDFADGLKVGDRDRVGEIISTREER
VEFGSYEQDTLDIGKHIKEFFPDLKDFSKGSVCTYPLSPDDDFIIDFLDENLFFMGGL
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gene complement(122347..122856)
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CDS complement(122347..122856)
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/inference="similar to AA sequence:RefSeq:ATG65709.1"
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/transl_table=11
/product="flavodoxin family protein"
/protein_id="Prokka:DMACINML_01335"
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VTTLGGAQESYDGHGATLEELLKPIYYTFEYLGCKSLKPFIFSANANKLDLKAYQD
AISQNSGCS"

gene 122959..123858
/locus_tag="DMACINML_01336"

CDS 122959..123858
/locus_tag="DMACINML_01336"
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/inference="similar to AA sequence:RefSeq:ADT66782.1"
/note="conserved hypothetical protein"
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/protein_id="Prokka:DMACINML_01336"
/translation="MQNQDKFLKQFKLALLDKNIRLVTLEGSRVNKKAKKDKYQDYD

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SITHLSQRSFDDVCNEFYFLYSCLKKALLRKQFILSNHLLNSLRKALFDLLSFKIGLN
FGFEIWLKKEYTNILEFLEEKEVKIILKSFNATLEHIKKARKKLEILFHKNAKFVAK
KSDFKLFPYRKNVKRYCKILGKL"
gene      123972..125375
          /locus_tag="DMACINML_01337"
CDS       123972..125375
          /locus_tag="DMACINML_01337"
          /inference="ab initio prediction:Prodigal:2.6"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="Prokka:DMACINML_01337"
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NEADSIGLKNLNTPNLKKLDLGNALNYFPREILEFKNLKKNLSSNKITSPLSLLSL
QNLKILNLSCNALSEISKELTTPNLEYLDISYNKLTSLDTSFYEAKFELIKEGNKIP
LTDYEKDRTSHLTQKEFKAFSTWLWNNCHDCGLMLEDMLDEFRWYDDYGYDAPELKEW
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gene      125386..127557
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CDS       125386..127557
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VAKLKYFPTTKEELLKLVEDSKVKLETIDTSKIKDMSCIFEESSKRRSFKGLETWNVEN
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gene      complement(127601..127849)
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CDS       complement(127601..127849)
          /locus_tag="DMACINML_01339"
          /inference="ab initio prediction:Prodigal:2.6"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"

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/protein_id="Prokka:DMACINML_01339"
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 gene complement(127941..128288)
 /locus_tag="DMACINML_01340"
 CDS complement(127941..128288)
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 /inference="ab initio prediction:Prodigal:2.6"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_01340"
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 gene complement(128349..129218)
 /locus_tag="DMACINML_01341"
 CDS complement(128349..129218)
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 /inference="similar to AA sequence:RefSeq:SQE25044.1"
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 PQSTTTEENRKIKGREVQNAIFGEANITKMIESTPKDKAFVNDFLSANCFGDYTRNG
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 sig_peptide complement(129132..129218)
 /locus_tag="DMACINML_01341"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 29"
 gene complement(129230..129724)
 /locus_tag="DMACINML_01342"
 CDS complement(129230..129724)
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 /inference="ab initio prediction:Prodigal:2.6"
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 sig_peptide complement(129671..129724)
 /locus_tag="DMACINML_01342"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 18"
 gene complement(129733..130752)

CDS /locus_tag="DMACINML_01343"
 complement(129733..130752)
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 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:UniProtKB:Q01609"
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sig_peptide complement(130681..130752)
 /locus_tag="DMACINML_01343"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 24"

gene 130925..131680
 /locus_tag="DMACINML_01344"

CDS 130925..131680
 /locus_tag="DMACINML_01344"
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 /inference="similar to AA sequence:RefSeq:APA48628.1"
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 LPFQAKWVDNKIMENRSYEEAKRFLSCFGKSLEKMAEAYQYFQTYFNEFYDSRFDY
 IQDCNCRANKHCYITNTINGKIVTHCRCNNNES"

gene 131670..132848
 /locus_tag="DMACINML_01345"

CDS 131670..132848
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 /inference="similar to AA sequence:RefSeq:APA48629.1"
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 DFIDLGDKKIFTQAQPNCAIWRFEKGNFTRNTNCLREFSCINGQILFTKSHYFIPFFT
 LFFVKVGA VSGADSI FANEEFGNMEFVNSTTNKTGKTKKMIYGEYGKCKYLQSFKGR
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gene 135174..136121
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gene complement(137899..138327)
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LOCUS DMACINML_8 111882 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

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 /codon_start=1
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gene 19304..19936
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CDS 19304..19936
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 /protein_id="Prokka:DMACINML_01364"
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 QFSQNNKNCLDLLIEAGQVRILKSYNECQKLSKDADFQKFLNEDFLTLYKNNGYFINE
 NLQDLKAMQDVMIIYKLRFAFSKNIQDMSKNKNSILNIDEKEGGTLLYKINNQACV
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gene complement(19924..20064)
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CDS complement(19924..20064)

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SK"
gene complement(20184..20822)
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CDS complement(20184..20822)
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putative"
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KCIHCYNHHKFGTLEKLREAFPNLHFKLYPVSLMNGEYANELNELFAFAQFKDEQNGK
DASYSDSLSHKLADVVFVYFINKQDNFSSSDEFYDIGLKAMNVDKNEVLNFLSTPKA
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sig_peptide complement(20757..20822)
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/note="predicted cleavage at residue 22"
gene complement(20911..21606)
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CDS complement(20911..21606)
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/inference="ab initio prediction:Prodigal:2.6"
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/protein_id="Prokka:DMACINML_01367"
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EAISTENPFGVNGCRDIPLYPFNLPLHEWFPSWFKPIGQCGMDFPMVPKSAYLNAFQ
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gene 22233..23297
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IVEVLASITGALSDASKKNYRIAVINFFDFLDKQNEEDEKAHIFDIVLKNWGGITGNK
GAKLPEFMNEDELKFFLEAIENSDFKNNTIRNKLIIKIIIFTGIRVSEAINIKLKDIS
EENELYIIRIRAKGNKYRVMIKKELIEHLLKDVRVNYLSEDGLL FVNRNGKALTQAY
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gene 23287..25065
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      /locus_tag="DMACINML_01369"
CDS 23287..25065
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     /locus_tag="DMACINML_01369"
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DLLRNDLSKLVKNSMKTFLFKIQSYPTLHQMTSIIKGLKDKIDYQIFKALFPCGS
ITGAPKLETIKLIEELEARKRGIYCGAIGCIHKNKSKFSVAIRTLEKKQDYQYSVGS
LVWDSKLEEEFKELELKTQFLMPKDFYLFETMYKKGKILFFKEHLQRILNSALKLNF
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ILQKDGSYTILENHIKTSDDNILLLSNKSLNSQSDSLYHKSSLRQIYDEKAFWLKENQ
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gene 25062..25640
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CDS 25062..25640
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gene complement(25637..26497)
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CDS complement(25637..26497)
     /locus_tag="DMACINML_01371"
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     /transl_table=11

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LIMIYVCIKDKKMPKIFESMALIFIILALFLLASGGDISNLLNLWGIWFMAILGAFGV
AFYSLGARKIIAKYGIFFVMGWSSLIASFILFGILEFKEGLVHYDFALNLYLAQAGII
FIGTIGAFCLYLKGV EYIGALRSMIACIEPVAAAFMSFLFLGTRYSFLDLFAFALII
LSVILNAKKS"
gene 26688..27944
      /gene="murA"
CDS   /locus_tag="DMACINML_01372"
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      /gene="murA"
      /locus_tag="DMACINML_01372"
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1-carboxyvinyltransferase"
      /protein_id="Prokka:DMACINML_01372"
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KELDFKEFSVIPDRIEAGTYLCAGAITNSKITLKKVNAEHLGAVLAKLHQMGFETSV
DNDNITLFPAGEIKATEIMTSEYPGFPTDMAQAFMALALMAKGTSIIDERLFENRFMH
VSELLRMGADIKLNHGIATIVGGKELNAADVMATDLRASSALILAALVAKGTSRIHRI
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gene 27941..29107
      /gene="moeA"
CDS   /locus_tag="DMACINML_01373"
      27941..29107
      /gene="moeA"
      /locus_tag="DMACINML_01373"
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      /inference="similar to AA sequence:RefSeq:CAL34985.1"
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      /protein_id="Prokka:DMACINML_01373"
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LYKIEVVRKIRVGI FSSGDELKEPWQDCDEENIYNANALPLLALFEDCATSYLGIKD
DFNTTKALENANFDLLITSGGASVGEADFMKALNELGFAPL FKGLKARPAPTKLY
QKDKTLVLI LPGNPMAAYLSAFIFARKIIALLYGNLENSLQIQAIMGSDLKVKSGRNN
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gene complement(29225..29299)
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tRNA complement(29225..29299)
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/note="tRNA-Gly(gcc)"
gene complement(29371..31305)
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CDS complement(29371..31305)
/locus_tag="DMACINML_01375"
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/inference="similar to AA sequence:RefSeq:CAL35009.1"
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/product="ABC transport system ATP-binding protein"
/protein_id="Prokka:DMACINML_01375"
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SGGEIRRVLGICILLKPNPDIILLDEPTNHLVDVMTSFLDLLKNSKMCVIFISHDRYF
IDAIHRCVEVDQGKLSVFKGGYANYLEKKTQILESLAKSHETLLKHLKSEEWLRRG
VKARLKRNEGRKERIFKMREEAKKNPGAIRKRLKLEISRAALNFTGEKIPNRKMLFEL
KNVSKNLGEKALFTDFSSRILQGERIAIVGKNGCGKSTFLKILLGELKQDSGEIKRGE
IKIGYFDQARSLVNSDKTLLEIFCPNGGDRVEVRGKNMHVYGYLKNFLFPKEFLDKSV
SVLSGGEKNRVALALLFTEEYDVLILDEPTNDLDIATINILEEYLLSFEGAILLVSHD
RYFVDKIATKLYAFESGAKINILHTLYTEYLENEKEMQEFDDYISSNLQQEQTHTQK
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gene complement(31314..32597)
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CDS complement(31314..32597)
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LNSKRILVKNFTYKDYKYMIIIVYPRFLNLQNFWLKISISFGLYFMLVFILVFFMGRKL
AKSFKKILEFLNFINDSKSVILEDSEIFKELNLLNKKLLKTKEKILKNTQKNKKQSDKI
ALKNTQLASVISASISHELKNPLSVIELSLEMLKDENLKDEKLLKELLEKISRQSLKLN
ALTHKLNFFVNLNHEALQMDFDLFALCEKIVKNPGFERVILRGKSTKVKADEFLIEQ
VIINLLSNALKYSQKEVILIAQDQKISVLDFGKGIEEDQLKLITKFKYKINTKSDNSF
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gene complement(32591..33262)
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CDS complement(32591..33262)
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/product="putative sensory transduction transcriptional
regulator"
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CDS      complement(33240..34823)
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          /locus_tag="DMACINML_01378"
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VSKMAFLAVQIDKNPIKSIKLEAEGVIGEYATSMFTFAAVGALSGILGEKINYVNAEF
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gene      complement(34820..35311)
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CDS      complement(34820..35311)
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          /protein_id="Prokka:DMACINML_01379"
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gene      complement(35311..36981)
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          /locus_tag="DMACINML_01380"
CDS      complement(35311..36981)
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          /product="30S ribosomal protein S1"
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gene complement(37121..37951)
 /gene="ispH"
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CDS complement(37121..37951)
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 EIKITQNDFETIGEIHASSELKAVEVKENIAWLIDEAPALAIAFALAKGKSKLINAK
 ELRVKESDRIAATVENLKLCGVNAKELEDGFEIEGSQIKKAKIKSYGDHRIAMSFALL
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gene complement(39218..41539)
 /gene="pheT"
 /locus_tag="DMACINML_01383"

CDS complement(39218..41539)

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/protein_id="Prokka:DMACINML_01383"
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CDS /locus_tag="DMACINML_01384"
complement(41536..42528)
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TQTSPVQIRTMLAQKPPIRMIAPGAVFR RDFDITHTPMFHQVEGLVVEEGQRVSFANL
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gene 42649..43014
/locus_tag="DMACINML_01385"
CDS 42649..43014
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/inference="ab initio prediction:Prodigal:2.6"
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gene GGFKLPKEKDENENPQALF"
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 monophosphate synthesis protein"
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 LFGLELAKHLCSDEIYNSLYEGLLIPLTK"
 gene complement(43613..43753)
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 CDS complement(43613..43753)
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 QLMIFAFVIFTFIDNLYAAIFALGLNSSAYIAEIVRSGINSVDKGMQAARAMGLDYK
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 gene 44600..45328
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protein"
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gene complement(45353..46837)
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CDS complement(45353..46837)
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GIWMFFSHHTKIGKVSSLIVPFMALAYILLALIAVLINLDKIPSVVSLIFESAFDFKA
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TSSGFLVLFMAYFNVGADGKPLLAMPLIQEAMREYYGSFGVHFITIAIVLFAITSL
IGNYYAQANVKYLTNSKLLMNLFRITAVAMIFIGSQMNLKLAWSLADLTMAFMAITN
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gene complement(46942..47409)
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CDS complement(46942..47409)
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SESYGLPMELMQLNWDNAITIPMKACGRSLNLATSVGIVSYEALRQNFDFHRL"
gene complement(47413..48402)
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/EC_number="5.1.1.1"
CDS complement(47413..48402)
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KEKFSKAKDIAKQIYKNLIFHSHNSAALFRAMKIPEDFCRTGLAQFGYDESLEVL
SLYAHRLSCRELQIGQSVGYGGAFSATEKIKIATYDLGYADGLFRYNGKGDLLANKQ
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gene complement(48402..49379)
CDS /locus_tag="DMACINML_01393"
complement(48402..49379)
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LDGTRLDEFKTRGCIALFNENLEEFKVVQDKKVFAMTEEKEKVRAKKEDIAALLADL
FAWKLAWTSDINTYLNFYDEKQFKRFDKMKFEQFASMKKSIFSRKEDKKIKFSDINI
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gene 49542..50015
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TNTKDAIINFTGKSVTDDSRFRVEFLNNDKPTGFFDFDVTQLQKIYNSAILPQN"
gene 50108..50524
CDS /locus_tag="DMACINML_01395"
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/translation="MKKIITLGALFALS LCAKDIEIKDAFIKQTPPNAVNSAIFLTIV
NNTDKDISLIDAKTDINQVSELHTHAHKHGMKAMIQIPEIPVKAHSSTELKPGGYHIM
LFKLNQPVDKNTKANLTLIFDNNQSLEVRDIGSKEL"
gene 50528..50980
CDS /locus_tag="DMACINML_01396"
50528..50980
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/translation="MKKVFFILASGLSLLILYIIFDFYVLKDR TTLNQD DDL SPLSCD
LNIENCTYNFKNREVLVSM DPKPLQSLEITNLKIKNLGNYKNLKIKIYGLNMFMDIM
PKV NKINETDYESKLVLAACVLEVMRFRAEVFEDDKPIGFHFDLKR"
gene 50977..51531
/locus_tag="DMACINML_01397"
CDS 50977..51531
/locus_tag="DMACINML_01397"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35031.1"
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/translation="MKKVFLFVIALVAIGILAFYFANKNQYDFNLRS AFKEQT TLEDF
KGK KLIVYFGYTF CPD ICPSTLSLIGKNLSSLKDPRAHVLFISLDISR DGNVTSTNEW
LRYFYPNADALIAKNDSVLKVKVAKNYGVQYQKIDINDSV MKYSVAHSSEIFLIDENGL
LQKIIRDLNPEEVAKELKNFLSSK"
gene complement(51537..52436)
/locus_tag="DMACINML_01398"
CDS complement(51537..52436)
/locus_tag="DMACINML_01398"
/EC_number="2.5.1.47"
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/inference="similar to AA sequence:RefSeq:CAL35032.1"
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/protein_id="Prokka:DMACINML_01398"
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FAMIQSALDEGKIDS KTVIVEATSGNTGIALAMICADLGLQFVATMPESMSIERRKMM
TLFGAKLELTPASLGMKGAVDKANEILKNT PNSFMPSQFENLANKNHRKTTALEILK
DLNDLDIFVAGFGTGGTISGVGEVLKEKLEKIHIAAVEPLASPLLSKGEAGSHKIQG
IGANFIPAILNKDVIDE IITVSNEDAINTAKELAKNGLMVGISSGANVFAASVLAKKF
PDKKILTVLNDTAERYLSTDLFA"
gene complement(52563..52853)
/locus_tag="DMACINML_01399"
CDS complement(52563..52853)
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/product="DNA-binding protein HU"
/protein_id="Prokka:DMACINML_01399"
/translation="MTKADFISQVAQTAGLTKKDATAATDAVISTITDVLAKGDSVSF

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gene IGFGTFTAERAAREARVPSTGKTIKVPATRVAKFKVGNLKDAAKAKKKK"
 complement(52931..54772)
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 /locus_tag="DMACINML_01400"
 CDS complement(52931..54772)
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 /inference="ab initio prediction:Prodigal:2.6"
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 /codon_start=1
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 FLRKNQLYQTTPKGDICERSYGLVLRIGNIWKFPYARFFENEILKLEFAFDDMIHKL
 KQIAKNEDELAYIEYFQKLKLAFCCKEKKVIGAWQEAFAWMKVKSPQLQVGHPLLEY
 EDSYTHAVALEWDIRIEDESDFDTLKFSEIKQSFMRVYENIGIQDEQLKSEVLHNID
 KTQLYICAPMIYYGAELKGLFSAQVVPNDESSSIAGKKIFAFNLFVYENAKTKPFMR
 IASEIFDKDFLNYGRDILFFKEKVKRVYEVSTIGHEFGHIFFTAKDSEKLMNQSGFF
 KNIEEYKATSGGLVNFYHEQEDLKLVPVHELKRAVSLIAQRVEEVKPPYYTEGLIH
 LSLLFQSGVLRFENDKLNVNFLDYEEKFKDATLKNYHDLAKHYALKLDAKEFLNRFC
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 gene 54836..55249
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 CDS 54836..55249
 /locus_tag="DMACINML_01401"
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 /inference="similar to AA sequence:RefSeq:CAL35035.1"
 /codon_start=1
 /transl_table=11
 /product="putative hydrolase"
 /protein_id="Prokka:DMACINML_01401"
 /translation="MRNMGEPKLVAMPSTNPAGNIFGGWILSQIDLGAIAAREL
 SPERVVTISMDKVVFKEPVFIGDIISCYSKIVSVGKTSIGVEVEVTAQRVDSQGCTSC
 INVTSALVTYVSVTREGKKKPISEELKKIHGFVNT"
 gene complement(55471..57582)
 /gene="cstA"
 /locus_tag="DMACINML_01402"
 CDS complement(55471..57582)
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 /locus_tag="DMACINML_01402"
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 /inference="similar to AA sequence:RefSeq:CAL35037.1"
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 /protein_id="Prokka:DMACINML_01402"
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 VGPIILAAQMGYLPSMLWILVGGVLAGAVHDFVVLFISTRRRGRSLGEIIKDEMGSFTG
 GVAMVAIFGIMLIIIAILAMVVVKALAESPWGLFTIAMTIPIAIFMGVYMRFIIRPGRV
 GEASVIGFVLLILAIHYGSVIAADPYWAKIFTLEAPT LAIIMMAYGFIAAVLPVWFL

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APRDYLSTFLKIGVIVMAVAIIIVAPDLQMPKTNTQYFDGTGPVFAGAIFFPFLFITI
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AINSSSALIGSDVVSAAQAISWGSITPEEISTLTTNIGEYITLSRTGGAPTFAIGV
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HNPAGLLATALSVAGWGYFLYQGAIDPKGGIYTLWPLFGVSNQMLAGMALLLATTIL
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gene      complement(57955..58884)
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CDS      complement(57955..58884)
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          /locus_tag="DMACINML_01403"
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KNAIVGSPDIGGVARARSVAKNLGLDIVIVDKRREKANESEVMNIIIGDVKDKVEVILVD
DIIDTAGTIVKAAEALKNKGAKSVMACCTHAVLSGKAYERIASGALDELVVTDTIPLR
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          /locus_tag="DMACINML_01404"
CDS      complement(58984..59643)
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PEB1"
          /protein_id="Prokka:DMACINML_01404"
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gene      complement(59654..60406)
          /locus_tag="DMACINML_01405"
CDS      complement(59654..60406)
          /locus_tag="DMACINML_01405"
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          /product="putative ABC-type amino-acid transporter
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LYFALPGLGIHLDI FTIGVLGIGAYHGAYVSEVVRSGILSVPRGQFEASSSQGFTYIQ
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gene      complement(60408..61187)
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          /locus_tag="DMACINML_01406"
CDS      complement(60408..61187)
          /gene="peb1A"
          /locus_tag="DMACINML_01406"
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          /transl_table=11
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protein"
          /protein_id="Prokka:DMACINML_01406"
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KVINTAAKKIGVKV KFSEFPDYSIKAALDAKRIDAFSVDKSILLGYKDENNEILPDS
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sig_peptide complement(61107..61187)
          /gene="peb1A"
          /locus_tag="DMACINML_01406"
          /inference="ab initio prediction:SignalP:4.1"
          /note="predicted cleavage at residue 27"
gene      complement(61213..61941)
          /gene="pebC"
          /locus_tag="DMACINML_01407"
CDS      complement(61213..61941)
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          /inference="similar to AA sequence:RefSeq:CAL35042.1"
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protein"
          /protein_id="Prokka:DMACINML_01407"
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gene      complement(62104..62892)
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CDS      complement(62104..62892)
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AGVKTFAEFLSKLRINRQLRQDTLDFVTIGETYFLRELSQLKEIIYYAKSLEKTVNII
SAPCSSGEEVYSMAILGAQNFLKDMMLGIDINSSVIEKAKAGKYQGRTLQRLSESEK
RRFFTDIGDQTFSSINKSELCTCRFELCNVFEKFLRLGKFDIIASRNMMIYFDYDSKI
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CDS complement(62905..63459)
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/inference="similar to AA sequence:RefSeq:CAL35044.1"
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gene 63629..64066
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CDS 63629..64066
/gene="rpiB"
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/inference="similar to AA sequence:RefSeq:CAL35045.1"
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/product="ribose 5-phosphate isomerase"
/protein_id="Prokka:DMACINML_01410"
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NVLAFFGRLVGIDAAIDMIENFIQTPFDQGRHVKRIQKIEVDC"
gene 64066..64398
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CDS 64066..64398
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/product="putative membrane protein"
/protein_id="Prokka:DMACINML_01411"
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DTEIVIRKIQIQRLQNSLGNIDILTEELNKIKADLTSLRTRNSQYRLENDKLRRIKEL
EAKIEALL"
gene 64395..64943

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CDS /gene="apt"
 /locus_tag="DMACINML_01412"
 64395..64943
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 /EC_number="2.4.2.7"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35047.1"
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 /product="adenine phosphoribosyltransferase"
 /protein_id="Prokka:DMACINML_01412"
 /translation="MTKLTQNEQQFLSESIRVIPNFPKEGIIFRDITLLNNQKALSF
 LLDHLSKRYQSMNLDIAGTESRGFIFAAMICAKLNLFPVPIRKPNKLPSENTYSCEYE
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 LKNLGGEEKLQKHCSVYSVLEF"

gene 64953..65648
 /locus_tag="DMACINML_01413"

CDS 64953..65648
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 /inference="similar to AA sequence:RefSeq:A0H51883.1"
 /codon_start=1
 /transl_table=11
 /product="putative membrane protein, DedA family, type I
 (SNARE domain)"
 /protein_id="Prokka:DMACINML_01413"
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 TWGYLILFCWSILEGELGLIFAGLAAHDGKMHVLAIFIAGLGGFVGDQIYFYIGRYN
 KRYIQKRLRSQRRKFAVAHLLLQRFGWPIIFIQRYMYGFRTVIPMSIGITRYSAKKFA
 IINLLSAVWAAITILLAWHFGNLIQNFLTWAKNHWYLAAIMIICFLSLLVFTFKQIE
 KAILKEKRKKNDI"

gene 65638..67089
 /locus_tag="DMACINML_01414"

CDS 65638..67089
 /locus_tag="DMACINML_01414"
 /EC_number="3.4.11.1"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35049.1"
 /codon_start=1
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 EGNLLDLNNKRLFIELKSLNYEDIRLALYTAYKNLEKLNKSVKLPKPSILGDCVVRSA
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 TNFTKDIVNEIPEIYTPLKMNVEDAQNLTKENKNITCKIYDEKFLAKEKMNFLAVNRA
 SAHPPRLIHLSYKAKNAKRVVFGKGLTYDSGGLSLKPADYMLTMKADKSGAAAAMG
 IIKAVAELELEVHCILGATENMIGGNAYKPDDVLISREGVSIIEVRNTDAEGRVLVA
 DCLSYAQDLKPDLLIDMATLTGACVVGLGEFTSGIMGNNEELQNEFYLSKKSGEYAT
 ILHFNPYLKEIKSNIADVSNTASSRYGGAITAGLFLDKFIRKEYKDKWLHLDIAGPA
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gene 67086..68189
 /locus_tag="DMACINML_01415"

CDS 67086..68189
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 /inference="similar to AA sequence:RefSeq:CAL35050.1"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_01415"
 /translation="MSLSVGIVGLPNVGKSTTFNALTKAQNAQSANYPFCTIEPNKAM
 VEVPDLRLNELAKIVKPERIMHSLIEFVDIAGLVKGGASKGEGLNKFLSNIRETEVIL
 HIVRCFDEENITHVEGGVDPLRDVEIINTELILADIEQLGKKIEKLNKEARANTKGAK
 ESLEIANSLLLEHLNKGLPASTYSQKEDEIFQALNKELRLLSAKEVIYGANVDENGIGE
 DNEYVKILKDYANKNNHEVIKLCAKIEEELVGLSDEESAFLSSLGVNESGLDQIIRT
 AFSKLGKGLISYFTAGVLEVRSWTIKKGWKAPKAASVIHNDFEKGFKAKEVISYEDFIAY
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gene complement(68195..69580)
 /gene="argH"

CDS complement(68195..69580)
 /gene="argH"
 /locus_tag="DMACINML_01416"
 /EC_number="4.3.2.1"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35051.1"
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 /transl_table=11
 /product="argininosuccinate lyase"
 /protein_id="Prokka:DMACINML_01416"
 /translation="MKNEMWSGRFSEASNELLKEFNASLNIDRTLYMEDIQGSIAHAT
 MLENGILKKDELEAIVKGLEQVRIEIEQNRVFNIEDEDIHMAIEKRLSELIGSEIG
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 HAQPISFSFYILSYAFMFRDIKRLQNSLELADFSPLGSCACAGTSYATNRNLSAQIL
 GFKDIMPNAMDGVSDRDFALDLLYDIAVIFHTSRLCEEMILFSASEFGFLTISDSFS
 TGSSIMPQKKNPDVCELIRGKTGRVYGNLISLLTIMKALPLAYNKDMQEDKEGLFDSV
 KTAKDSLIIILNAMLKEVKINEENMLKSCCKGHLATDLADYLVREKNIPFRKAHFIVG
 NVVAQAEKQGIDISDIEDLSKIDPIFDDKAMKLLDFENSLNSKQSEGSSSVASVEKQI
 QILERFLESLG"

gene complement(69590..71164)
 /gene="pckA"

CDS complement(69590..71164)
 /gene="pckA"
 /locus_tag="DMACINML_01417"
 /EC_number="4.1.1.49"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35052.1"
 /codon_start=1
 /transl_table=11
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 /protein_id="Prokka:DMACINML_01417"
 /translation="MKKFENLGLENIKKVYHNLSFDELYEHEKKNEEGQCTDNGTFAV
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 DVFCGASLKSRAIRFVTEIAWQAHFVKNMFIRPNDKELDEFKADFIVYNACKCVNKD
 YEKGNLNSEVFVIFNIEENIAVIGGTWYGGEMKKGIFSMNMYWLPENKLSMHCSANV"

GEKGDVALFFGLSGTGKTTLSTDPKRRLLIGDDEHGWDDEGVFNFEggCYAKTINLDPE
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 KNIIFLSADAFGILPPVSKLSKEQAMYYFLSGYTAKVAGTERGITePQATFSACFGEP
 FMPLHPTVYARLLGEKIDKHEVNVYLVNTGWSGGSYGVGKRMSIKATRACINAILDGS
 ITQCFEFNFDFVNLAI PKLTGVESLLNPINTWQDKDEFIATRNLAKMFSDNFKRY
 EDVKEGVEYSQFGPKI"

gene complement(71177..72967)
 /gene="pycB"
 /locus_tag="DMACINML_01418"

CDS complement(71177..72967)
 /gene="pycB"
 /locus_tag="DMACINML_01418"
 /EC_number="6.4.1.1"
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 /inference="similar to AA sequence:RefSeq:CAL35053.1"
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 /product="putative pyruvate carboxylase B subunit"
 /protein_id="Prokka:DMACINML_01418"
 /translation="MAKKFIDVMDTSFRDGFQSVYGARVLMQDFFPAVEAAKEAGITH
 FEFGGGARFQSLYFYL NEDAFEMMDKFRSIVGKDANLQTLARGVNTVTLDTGSRELID
 LHAKLFAKHGTTTIRNFDALNDVNNLKFSGECIKKYGLKHEITITLMDLPPNCQGAHD
 VFFYERILKEILAAEIPFDSICFKDASGTSNPNKIYETIKMARKNLPQDVHIRLHTHE
 TAGVSIACYLAAL EAGVDGIDLAAAPVSGGTSQPDILTMMHALKKGKDYDLGGLEEEKI
 LKYEAVLRDSLREYFLPPEATMV SPLIPFSPMPGGALTANTQMMRDNNILDKFPEVIH
 AMREVVKEGGFGTSVTPV SQFYFQAFNNVMFGPW EKIAEGYGMVLGYFGKTPVEPD
 AEVKKLAAKQLNLEPTTELAIDIADKDETKSIAYVKS LLEKEGI AVSEENIFIAAACK
 EKGIAYLKGEAKVNRKNAPVSKSNSIGVDENKFTVSVNGNKYHVEVSAGFDKDVNIK
 SVRKADTQEDITQDVSSEGIQAGISGNVFKIYIN EGEEVKSGQVVMVLEAMKMEIEV
 SAPKDGII EKICVKTGDSVSENNLVAIYKK"

gene complement(72990..74339)
 /locus_tag="DMACINML_01419"

CDS complement(72990..74339)
 /locus_tag="DMACINML_01419"
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 /inference="similar to AA sequence:RefSeq:CAL35054.1"
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 /product="putative sodium:amino-acid symporter family
 protein"
 /protein_id="Prokka:DMACINML_01419"
 /translation="MRTYFSKIGFILAVAGGAVGLGNAWKFP TLSAENGGFVFLLYL
 FFTLSIGFSIFLAEVSMGR LRSDDL ANAYYTLAKNHAKKWR YGGIFTLGGIFVLSFY L
 VIMGWVLKYAL TSLYLPKNLEQAGNDFSTLISVDLSNSILFFSLSFFLTLLIVSKGL
 IKGIERLNVLIMPSL FIMLVFMLFYCMSFQSGFKQAF SYLFYPDFSNFKLSSIAEALG
 LAFFTLC LGIGCIVT YSAALS KSKINFIKSSIFIVL INLLISFIMGLIVFTFIF EFGAN
 PNVQPGIVFVSLMSLFN ELGILGYVLAFCFFLALFFAGITS AVSMIEPLTFYV VNNY
 KISR I KALLFIGFIVFVLGIC CILSLNIHFSSLFNFFGKDFFTLLDKVTSNILLPLGA
 IVSSIFVGGFVDKKRIYKIFSKFVNRQIFTIWLFFIRFISPIAII CIMCYQIFVKIS"

gene complement(74353..75687)
 /locus_tag="DMACINML_01420"

CDS complement(74353..75687)
 /locus_tag="DMACINML_01420"
 /inference="ab initio prediction:Prodigal:2.6"

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/inference="similar to AA sequence:RefSeq:CAL35055.1"
/codon_start=1
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protein"
/protein_id="Prokka:DMACINML_01420"
/translation="MNSKFSKIGFILAVAGSAVGLGNAWKFPPTLVGQSGGSFILLYI
ILTLGVGFVIFLAELSIGKISEKDPVNAYEKLAPSNKKAWSYAGFTMIGAILIVSFYT
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VKNGIEKLNVMMPALFILLVLM LIYAMTKDGFMMAVEFLFVPDFSKISTSNVLEALG
LAFFSLSLGVGTIITYSASLPERTNFITSTLNIIFINLLIGLLMGLVVFTFIFEFGFD
ASKEGPGLIFVSLATLFQKLGLIGHILGAAFFISLIFAGITSAVSMIEPFAFYLINSF
GMSRKKALILIGIIVYTLGILCILSSLDSTAFKIFGLSVFDLLDTLSSKIIMPLGGIL
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gene 75932..76270
/gene="atpE"
CDS /locus_tag="DMACINML_01421"
75932..76270
/gene="atpE"
/locus_tag="DMACINML_01421"
/EC_number="3.6.3.14"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35056.1"
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/transl_table=11
/product="ATP synthase F0 sector C subunit"
/protein_id="Prokka:DMACINML_01421"
/translation="MKKILFLFLAATAFAAEANAPVEQEAINVWIKAFSVLAAGLG
LGVAALGGAIGMGNTAAATIAGTARNPGLGPKLMTTFIALAMIEAQVIYALVIALIA
LYANPFIVFA"
sig_peptide 75932..75985
/gene="atpE"
/locus_tag="DMACINML_01421"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 18"
gene 76319..76404
/locus_tag="DMACINML_01422"
tRNA 76319..76404
/locus_tag="DMACINML_01422"
/product="tRNA-Leu"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Leu(gag)"
gene 76655..78418
/locus_tag="DMACINML_01423"
CDS 76655..78418
/locus_tag="DMACINML_01423"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:ADT73068.1"
/note="conserved hypothetical protein"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:DMACINML_01423"
/translation="MNKIDNIANFLNKKSKKCLAINGSWGIGKTYLWKQVEKKLSEVD

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KDKKVYIDLFGKESYKQILEEIVFKLYGTYSFTKKASNVASNLIKKASCEFIKIEP
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 EEQDNNSTIDNKKKETKQDLNLSLQAYESKAKEEQAKQNNKNWYQIYKEKIIDCEITI
 RNNDEVAKAIIKEKIDQYTKITDEIRNIIENIIFEIHKEHCNGLRLLFHALEHIDYF
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 NMFYLSKKEKEQVRYDFNQTLKTNFYFKLQCKMEHLTGNSDEQFVKVVENSLLEID
 FYSKGGIIYYPDFYQDLFSTYTQITKKKLSNIEEKINKHYIEALVAEELEFDFRDNY
 KSDKDLLKLENEKWKRYEDTKEKYITSKYENINAFINSCENIESSFNSEAIKQYIF
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gene 78837..79712
 /locus_tag="DMACINML_01424"

CDS 78837..79712
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 /inference="similar to AA sequence:RefSeq:CAL35094.1"
 /codon_start=1
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 /protein_id="Prokka:DMACINML_01424"
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 AENEILELAKELKWRKGPFKIDDLFIDTEWQSFVKFNILKPFMKEISQKCVADIGCN
 NGYYMFKMLEFNPKKLIGFDPSIKYRLQFELINALAKTSIKYELLGVEDLPKYELKFD
 VIFCLGVIYHRSDPVKMLKDLKAGLNKNGTVFLDTMYIEDPREIALVPNKYTSKIPNI
 YFVPSISALKNWCERAGFKDFEVLATKIDENEQRKTDWIDFSLENFLDPNNKNTI
 EGYEAPKRYYVIRV"

gene 79789..80364
 /locus_tag="DMACINML_01425"

CDS 79789..80364
 /locus_tag="DMACINML_01425"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35095.1"
 /note="hypothetical protein Cj0977"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_01425"
 /translation="MAKKDTFEEYAQLEEVSAEDISRVRAELLTCPELNTSLAGTII
 ELDNFAKSILITSDMVVDEQGLVFDAFIFAAANYVAQASINKEFSVIGSKCFFYA
 PLKLGDVLELEAHALFDETSKKRDVKVGVHVKIKMFEATIQQVSTDEHIFKLKRPI
 NTVKAAENS DSPASTVNPEAIGSALSASLRK"

gene complement(80369..80542)
 /locus_tag="DMACINML_01426"

CDS complement(80369..80542)
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 /codon_start=1
 /transl_table=11
 /product="putative lipoprotein"
 /protein_id="Prokka:DMACINML_01426"
 /translation="MRKYILMLALLFGISGCFVNERGISNRFYDDCREYYDASGTYHK
 ECPKNWVDIKMTP"

gene complement(80552..81079)

CDS /locus_tag="DMACINML_01427"
complement(80552..81079)
/locus_tag="DMACINML_01427"
/EC_number="3.1.31.1"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35097.1"
/codon_start=1
/transl_table=11
/product="putative secreted nuclease"
/protein_id="Prokka:DMACINML_01427"
/translation="MRINYKFLNLRKIASDPKLLAFLIFALMIAFVQNYIVQNPSF
KAQVIRVIDGDTIEVIVNNTSKIRFFGIDAPELKQNFQKQSKVALDKILKDKDEVYIF
SKDKDNYGRIVAIKLNLDIDINQFLVSQGYAWADTYTAYIKEQEKAQKNKLGWLKD
DNPIEPYKWRKQNR"

gene 81136..82404

CDS 81136..82404
/locus_tag="DMACINML_01428"
/locus_tag="DMACINML_01428"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35098.1"
/codon_start=1
/transl_table=11
/product="putative peptidase"
/protein_id="Prokka:DMACINML_01428"
/translation="MQNVIANFKNLCKIPHCSYETGQMKFLSSYAKDKGFKVSVDKA
GNIHAIKGNPKICLQSHYDMVCMGEAPKVEVYEENGFLRATNSSLGADNGIGIAIMMS
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KLNFNFTKARGKIYELQAQNFQGGHSGINIIHNEKNSIKEMAKFIKENKGEIISFEGG
ERINSIPKHAKALVHFKNEVKGNEWIKCEFEKEGEFEICDQSKLLNTINAFAHGVRA
YDKNLDIVQTSINLAILKMNQEIKFELFARSNILDGLKQIEFETLEFFKAFDYKVK
FNFYPPWEGKANALSDKVLKALKKVPNARVSTIHAGLECGIIEKKQELLCASIGPNI
HNPSTDEHCEIASVEKISRNVFEVLKDNA"

gene complement(82387..83634)
/gene="cjaB"

CDS complement(82387..83634)
/gene="cjaB"
/locus_tag="DMACINML_01429"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35099.1"
/codon_start=1
/transl_table=11
/product="putative MFS (Major Facilitator Superfamily)
transport protein"
/protein_id="Prokka:DMACINML_01429"
/translation="MQKKYKNIIYASLGGILEFYDFVLFVAFLLDIFAKVFFPQNDTFW
MQINAYIAFGAAYLARPFSGSIVMAHFGDRYGRKNIFYISMLFMVLPFALAFVPSY
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NLATLGI RSYFSVQVEVEEYAWRIPFIIGGFFGFALFLRKLSETPEFERIKKENKLL
NFPLKDALKTYKTSMLVCFLMTVVLTSGVATLMILPKYFEELLSINKTSALWIQNF
LAVILGALIQQILASKWGSYRISIFSIAMFFGMLFSFYDANFLFYLLACFAQGII
TFAPVFM TQIFKSELKFSGLSFAYNISYALLGFLTPFIVNAFYKEYIGVYLIVVGCCS
LFSVFLKRI FARSEAKELSVF"

gene complement(83681..84520)

CDS /gene="cjaA"
 /locus_tag="DMACINML_01430"
 complement(83681..84520)
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 /locus_tag="DMACINML_01430"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35100.1"
 /codon_start=1
 /transl_table=11
 /product="putative amino-acid transporter periplasmic solute-binding protein"
 /protein_id="Prokka:DMACINML_01430"
 /translation="MKKMLLSIFTTFVAVFLAACGNSDSNASNSLERIKQEGVVRIG VFGDKPPFGYVDEKGANQGYDIVLAKRIAKELLGDENKVQFVLVEAANRVEFLKSNKV DIILANFTQTPERAQVDFCLPYMKVALGVAVPQDSNISSVEDLKDKTLLLNKGTTAD AYFTKEYPDIKTLKYDQNTETFAALIDQRGDALSHDNTLLFAWVKEHPEFKMAIKELG NKDVIAPAVKKGDKELKDFIDNLIVKLGEEQFFHKAYDETLKAHFGDVVKADDVVIEG GKI"

sig_peptide complement(84434..84520)
 /gene="cjaA"
 /locus_tag="DMACINML_01430"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 29"

gene 84723..85826
 /locus_tag="DMACINML_01431"

CDS 84723..85826
 /locus_tag="DMACINML_01431"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35101.1"
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 /transl_table=11
 /product="putative lipoprotein"
 /protein_id="Prokka:DMACINML_01431"
 /translation="MKKSIALTLGAIFFSACSNSLDKTTVAKYEERLNAQINETLKD FQQDMGVKIEISNFSCEGDMFLKCSSPNFSVFAKDSTQTEQKLF EAKNLEIYSNEIY TGEEQGLISLKDYYDNLLSKNKNLKTNFTLEGFKLGEKVVSDITTSLSQSEPKIKDYI SKLSSGVFTISFENSLFMKNSDYNNFMKINNQDLNFDMLNFDYKQSLLDFFEKAG IKYNTQTYAIDEKAVEELLDQRGFAQPIQESVTLNFKINSSLDTQGVFENYITIAKG GLEALKIQSQNEEQTLIDKALLALNEITKDTVYKLDLEAKFKPIALS DYPKEGINAV EKLT VNNQDF TETL KILFGFMMIPIMLGGATGF"

sig_peptide 84723..84782
 /locus_tag="DMACINML_01431"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 20"

gene 85941..86681
 /locus_tag="DMACINML_01432"

CDS 85941..86681
 /locus_tag="DMACINML_01432"
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 /inference="similar to AA sequence:RefSeq:ADT66289.1"
 /note="conserved hypothetical protein"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"

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/protein_id="Prokka:DMACINML_01432"
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EYILENTLIFS NFLGVVKASDHLFPYKFKQGAKINDFAIEKFYKEHFSKALDEYLENE
ELLDLRAGFYDKFYTPKRKFSTYKFIKKGKVVSHFAKAYRGILLALCAKIKAKNNTDI
LNHLPSNLSLKEIQNKGLKEEIVLEILD"
gene      86879..87082
          /locus_tag="DMACINML_01433"
CDS       86879..87082
          /locus_tag="DMACINML_01433"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:ABS44295.1"
          /note="conserved hypothetical protein"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="Prokka:DMACINML_01433"
          /translation="MQYFFVFLIIVFLFIVFMLIMRYEKKLELLNQSIQNIKEEVNGL
KNITQSNRSLIEKNRSDIENINK"
gene      complement(87085..87825)
          /locus_tag="DMACINML_01434"
CDS       complement(87085..87825)
          /locus_tag="DMACINML_01434"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL35108.1"
          /note="hypothetical protein Cj0990c"
          /codon_start=1
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          /protein_id="Prokka:DMACINML_01434"
          /translation="MKIFFQGSDEYEIEKSYFYNRAFIVKDKIPNRDKIDFITDSVT
LLKFSDFSFEFDEILKCLYDEDEENTIIVEEIFTTSQTKQDGGVDLPPLVIKDDEALK
NNIKFTPNTFSRVFNKDRFIFIPNTCEQKESIRVEKNQKLNIFETLKITDLNTSFVK
IEILDYDANNDVNFDLDFVPSGASYKYGISQNTMYIILQGKMTSCLLLDFLKS FVYK
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gene      complement(87826..89091)
          /locus_tag="DMACINML_01435"
CDS       complement(87826..89091)
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          /inference="similar to AA sequence:RefSeq:CAL35109.1"
          /codon_start=1
          /transl_table=11
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transport protein"
          /protein_id="Prokka:DMACINML_01435"
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EEKLELNKEAKKIFESCFLCTNCVEVCPSKLRVDNAIEEVRYDIAKKFGIAWYKKIIF
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LNSNPDIINNGEKTIGFFVGCLANYFYIDTANAVLKIAKEVKINVDLMKEQVCCGAP
QFFTGDFKSVEILAKKNIIEYFEKKLEKLDIIPEATCSAMLKIDLEHFHMQNEPEW
AKRAQKISSRIYMASEYFYKFTNLKELLESKKLNYSITYHDPCHARKMQGVFKEPRE
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gene complement(89102..90457)
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CDS complement(89102..90457)
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ALSLYFHLPFCRSACYFCGCNVIYTAKEESKERYLKYLQELDILSTLIDTKREVQVM
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RISFGVQDFDEKVQKEIHRIQPFELTQNALKLVRDRGIKSVNMDLIYGLPFQSLQSFT
KTLEKAMLLNPDRLAIFNYAHVPWLKKNMRKFDENTLPSPDVKLEILEFCEKFLTQNG
YKMIGMDHFAKEEDELFKALENGTLHRNFQGYTTKGGADLIGIGLTSIGEGQSHYAQN
FKDMPSEAAISEGRLPFERGVKLSYDDELKRAVIMDLMANFRLDIKAIKEFKIDFK
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gene complement(90444..90935)
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CDS complement(90444..90935)
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ERL"

gene complement(90973..91896)
/gene="argF"
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CDS complement(90973..91896)
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NSTRTRMAFELAITELGGKALFLSSNDLQLSRGEPKDTARVIGAMVDFVMMRVNKHE
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WLITAAIILGFDFSVALPKNYEINSEILEFAKEKAKISGAKILLTHDKFEAIKGDVII
TDTWVSMGEESEKEKKIKDFDGFIIDEEAMSAANQDAILLHCLPAYRGYEVSEESFEK
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gene complement(91893..92876)
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CDS complement(91893..92876)
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/inference="similar to AA sequence:RefSeq:CAL35113.1"
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/protein_id="Prokka:DMACINML_01439"
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DMIAPSGMMDGIIETLRKALDEEGFENLPIMAYSTKFASSYYGPF RDVADSTPSYGDR
KSYQMDFANGKEALEESLEDEAQGADILMVKPALAYLDVVKEISLHSNPLCVYNVSG
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gene 92933..93493
/gene="ribA_2"
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CDS 92933..93493
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/EC_number="3.5.4.25"
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/protein_id="Prokka:DMACINML_01440"
/translation="MDIKISEIANLPSKWGSFQIQSFKEGEKEHLKCFKNTPDILNL
RIHSECLTGDALGSLKDCGQLEFSLKYIEKHGGMVIYLRQEGRGIGL FNKVNAYAL
QDKGFDTIKANHLGFKADERTYEIVEFILKHYKISKVNLLTNNPQKIHSIQDKIMAR
VPILINPNRFNANYLEIKQNQMGHLL"

gene 93490..94089
/locus_tag="DMACINML_01441"

CDS 93490..94089
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/translation="MNLDFLNLILSDFNEEDFRAKLKTYKELLNKFNRHNLTLQKNI
DENILDSIEILKYFDFSKAKNIVDIGSGAGFPAIFLAFILPSKFHLEPNPKKAAFLR
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KGSEVFDEVEGLKDYDIFENGLRRYCVLKNTQSGINTTS"

gene complement(94090..94662)
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CDS complement(94090..94662)
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/protein_id="Prokka:DMACINML_01442"
/translation="MKKMFYSIAASLILATSLSAVSFNQDSLKVSFEGYKTEDMVGVG
GEFKDVKYKFSKNTSTLANYLKGARAVVNPSSVFMGEGNEIITDNLAKVFFPSLLGNS
DIKVVFKDVGAGENKGVISARVTIDKKSTLIPLSYTIENKFKVAKGQLDLHAFKNSSQ
ALKALSDVAPGHGGISWPLVDIVFSADVVQ"
sig_peptide complement(94594..94662)
/locus_tag="DMACINML_01442"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 23"
gene complement(94754..95848)
/locus_tag="DMACINML_01443"
CDS complement(94754..95848)
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35117.1"
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/product="putative integral membrane protein"
/protein_id="Prokka:DMACINML_01443"
/translation="MIKKIEHYKNILISNFKGLIFTACIVVFAMILYSSVQSIKDTTHL
AAAFIIGALLSPWFFKYQHHLQAGVHFSAKKLLRLGIILYGFNITLTEL SVGLK
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KGILAVGTVVIFGLVFMFLYPMAFSLDLFPYFDQRAMGIFMGATLHEVANVAGAAEMA
KDMANFDQSASNAIIIKMMRVILLVPFLLIVTYFFAKNQHSSSGKTAKSISIPYFAF
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SRVFGLAFLVGLVLFVGGYFLTLFFRGMLW"
gene 95993..96874
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CDS 95993..96874
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/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35118.1"
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/product="putative transcriptional regulator (LysR
family)"
/protein_id="Prokka:DMACINML_01444"
/translation="MKIKDMEIFDLLNTQSPHTANNFAITQPNVSIKLEQDLG
GVLFERLGKLLPTPKALYLGKIWLKLVQDYRSLEELSDENTLLGEINIAATQSIAE
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MQFWKKDELIVASSDKNLSQREFYIDELLDQKWILRETGSLRDKFLNEIGNVSKKLLK
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NYNFRRALEKFEKIFQQ"
gene 96950..98815
/gene="rpoD"
/locus_tag="DMACINML_01445"
CDS 96950..98815
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NRERRVKELFKSFDDEEKNDKLDLELEDEEENDEEENEETPKKTSKKEDERTLKV
IEKFKALEKAKKDWLKVSCKDKESGDEILDKLGIAFKKNILKEKLMDLGPTSCLISEIV
KSMETALKSDEEFDKELKRLEYRLLPMFSEELKSRHANILKDITKLSKEEITERAETT
MVSTYMEIKKLFQTKASEKSFDFLEKERLKEILEQIKRGKKISDEAKTRMAKSNLRLV
VSIKRYTNRGLPFLDLIQEGNIGLMAVDKFEYKRGYKFSTYATWWIRQAISRAIAD
QARTIRIPIHMIETINQINKIIREHLQKDGKEPDVSVIAKEVGLSVDKVKQVIKITKE
PISLEAPIGSEDDGKFGDFVEDRNSLSPMDHILKDDLKEQIDEVLDQLNDREKAVIRM
RFGLMDESRTLEEIGKELNVTRERVRQIESSAIKKLHKPKVGRKLNKNIIEGWK"
gene complement(98816..99325)
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CDS complement(98816..99325)
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mutase"
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INFDLILSSPSKRTAKTAKKIAKFYNLKDKKIQFIDELYLADLSKIYQILQTIKKNY
EVLLVGHNPTLMELGEYLGSLCLTSFPTSSMLCLEFDIEDFKDLKAHSGKVIFFEHVR
KLKEEKELD"
gene complement(99322..99840)
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CDS complement(99322..99840)
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IHGNLTHLILNMIVLFQFGRILEPYLGAFRFFLLYIIGGIMCSILSAFYVYFSFNQLS
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CGYFLGKLRRKI"
gene 99939..100355
/locus_tag="DMACINML_01448"
CDS 99939..100355
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gene complement(100451..102055)
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CDS complement(100451..102055)
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/inference="similar to AA sequence:RefSeq:CAL35123.1"
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/protein_id="Prokka:DMACINML_01449"
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SELVDFLQNPKKYKEFGVKMPKGVLMVGPVGVKTLIAKAVAGEAGVPFFYQSGSSFV
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GFEDNSGVIVIAATNKIELMDPALLRSGRFDRIIFLSLPDFKDRLKILEIYMKGKNNN
IDLNKIAKASVGFSGAGLETLVNEAAINALRRNSALVEESDFYAVLNKVLLGKKKILS
FNDEEKVIQATYQAAKALSAYYFDIGFEKITLIEDRFKEYEHAIRSKSELINRIKVVY
AGSRAMGLIYNESYTNQNDFLVKELFDYMMSFDMLEPNLSEIKKEVDEFLFPLKE
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gene complement(102058..103308)
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CDS complement(102058..103308)
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SCTVTNGADSGIKSYINSMQKKGIRVILTGC GAVSKGKELLDKKQIFGVLGASNKDKI
NEFLGLKTSFYELGNLNFIDKDIVCEYENHTKAFVKIQEGCDFACSYCIIPSVRGKSR
SVDEKALLKQVEILGANGYSEVVLGTGTNIGSYGLKNGTTLGELLQKMGQISGIKRIRL
GSLEPAQIDESFLEILDEKWMERHLHIALQHTSEKMLRIMRRRSHTDNDLKLFNIIAS
KGYALGTDIVGHPGETKELWDEALKHFQEFPLTHIHAFIFSPRNTHSATMKDVTNG
AVAKERLNTLKAIENNNYQFRKRVKTPLEILVENQKDGFFEGYDQFFNKIKIKSSKD
IAKEWLKLEREYVQEKNHFADLKG"
gene complement(103305..104876)
/locus_tag="DMACINML_01451"
CDS complement(103305..104876)
/locus_tag="DMACINML_01451"
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KELVNLESNIENIEALKASDKKLEEFDQALKFASVSYSVYEKKIDDEITRVS AEIKAQ
GLRAINIVVAIVVAIAFMLKFAKKYIKDNERYYTATKIINFINLNIIFLILLFAY
IENITYLVITILGFASAGLAIAMKDMFMSMLGWCVIVFGGSFRVGDVVKVFQNDTTYVG
DIIDISFLRITLYEDITLETYSKNRRRAGRIVFIPNNYVFTNLISNYTHHGMKTILDGI
DISVTFDSNIEKAQAIVEEIVNRLAKGYTELAKKTMKRLQNEYSIRNPKVEPRFFVFF
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gene complement(104873..105928)
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AASIYQRGIDFINIPTLLACVDAAVGGKTVNNAFGKNLIGTFYQPKAVYCESEFLR
TLGRRELAAGMAEFIKMAAMFDKDLLGFIEAIDEESFLNATCENEIFTQIISKVSELK
ARVVECKESGLRMLLNYGHTFAHVIENFTDYKQYLHGEAVAIGMNMNARLALKLGL
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gene complement(106094..107494)
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CDS complement(106094..107494)
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YRHISSIQQRWRIVLIYRNSKIYFVKPSFVLQPNDSILIVGDPVVLQSI FHNIRGKV
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KIGEGKFENIQNAVILSADETELENNANVITDLKQLDFDVTLYYYNPNLQNTTDMEE
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 gene 107524..108654
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 SKHFQDGIIEFKSHIDGSKHLFTPksVLDtQYDLNSDIMMILDDLIAlPATKERIKVSV
 DRTIKWAKEAIDYHKQMqIQGLGLKQNI FGIIQGGTDYEERKRCALALNEMDFDGLAI
 GGLSVGEENALMYETVENLNPFLDENRPRYLMGVGTPEDLVENIERGVDMFDCVMPTR
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 CDS 108644..109414
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 EMITRLNELHLLMSAIKNEKINQSLYFLSILSAIFLPLNLIVGFFGMNTNDLFLSNVK
 NATWYVFALICFILLSGLIIRKKRKELEFEDKILSK"
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 tRNA 109470..109546
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gene complement(110052..110258)
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CDS complement(110052..110258)
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LOCUS      DMACINML_9                64928 bp    DNA        linear      16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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            /mol_type="genomic DNA"
            /strain="strain"
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SVNFRILFQIIYHYASLKLYHEFKEEIEILVPSGNFGNALGAYYAKLMGAKISKIK
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gene complement(5017..5796)
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CDS complement(5017..5796)
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YSGHGTAKAAVEAMARYAATELGEKNIRVNVVSGGPIETDALRAFTNYEEVKQATINL
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NIYGVKEASGNIDKCVDLLAHEPRMILISGEDAINYPILSNGGKGVISVTSNLLPDMI
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DYFTLFRNFKDLCDYFIVNISSPNTKNLRELQNDDFLNHLL EEARKITNKPILIKIAP
DMPIDSALKLCENAILKGADGFIIANTSVDYSLLDNNRTFGGISGRLITEKSGIFFKE
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gene complement(9037..10770)
/locus_tag="DMACINML_01472"

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 DLLFPHHENEAQRCACKRALAKIWLHNGFVKINGEKMSKSLNNSFFLKDALKDFMG
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gene complement(12153..13604)
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 CDS complement(24407..25231)
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 CDS complement(25232..26347)
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 /locus_tag="DMACINML_01484"
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 RILRAVAFASRFD FKIADESLKLMQSMNIKDL SRDRINAELYKFFKSSKLEVGKYQLQ
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 CDS complement(26316..26813)
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gene complement(26810..27055)
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CDS complement(26810..27055)
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gene complement(27102..27683)
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gene complement(27993..28673)
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CDS complement(27993..28673)
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gene complement(28670..28846)
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CDS complement(28670..28846)
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 QREEYKHLFKK"

gene complement(28860..29195)
 /gene="napD"

CDS complement(28860..29195)
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 YGSIYNQIS"

gene complement(29182..30102)
 /gene="napL"

CDS complement(29182..30102)
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 NEEKTKLVAGFESGEVELFDLKKWKILKNYDKMHKDNIYQVDLKNDTILSCGTDRRIG
 LVKNEEQSFLQKDFLIYTCALSPSGKLAAYS DNEAGFNEVFDTNTLTKTIKIFKDENLM
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gene complement(30107..30628)
 /gene="napB"

CDS complement(30107..30628)
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(cytochrome C-type protein)"
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sig_peptide complement(30566..30628)
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/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 21"
gene complement(30628..31410)
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FILFCIDTFLSPRAICSHLCPLGAFYALISRFALLKIKHNNHQCTKCYKCIGICPEKQ
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gene complement(31410..32150)
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complement(31410..32150)
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ERTAKHAFLLPSVDHEVCVGCGLCELACITEKPAIRVLPREYVLGKAGSHYVKGWDQE
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gene complement(32168..34942)
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 LPSAMIYEKYGAYGNAERRTQHWKQQLPVGAAMSDTWQILEFAKRFKLKEVWKEQKV
 DDKLTLPVLEEAKAMGYSEDDTLFDVL FANKEAKSFTSNDAVMKDFDNSEVKGDERK
 IQGSDGKEFKGYGFFVQKYLWEEYRKFGLGHGHDLADFNTYHQVRGLRWPVVNGKETQ
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 KAPERPNEEYPFWLSTGRVLEHWHSGTMTMRVPELYRAVPEALCYMSEKDGEKLGKLNQ
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gene complement(35213..35740)
 /gene="tpx"

CDS complement(35213..35740)
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gene complement(35847..36584)
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CDS complement(35847..36584)
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sig_peptide complement(36531..36584)
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/note="predicted cleavage at residue 18"
gene complement(36631..38661)
/locus_tag="DMACINML_01499"
CDS complement(36631..38661)
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gene 38783..39715
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CDS 38783..39715
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gene 39739..42351
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gene 42357..43367
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CDS 42357..43367
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 /note="predicted cleavage at residue 21"
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gene 48649..49227
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gene 49224..50450
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gene 50447..52282
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gene complement(56754..58625)
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FALTRVAGAYLGGDEKREMLTRIIYGTAFAADKESLKEHLRIIEEAKKRDRKLGTELKL
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(adenine-specific methyltransferase)"
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NPKDYELWYKFTHPNQELLKNAVYGLCELYQEEIKNANLIANPGCYTTCSILSLYPLF
KEKMIDLNSVIIDAKSGVSGAGRS AKVENL FCEVNENIKAYGLASHRHTPEIEEHL SY
AAGEKITLQFTPHLVPMQRGILT TAYANLKHSVSEKEIREIYQKYYQDRKFIRLLPPQ
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gene 26152..26598
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/EC_number="2.3.-.-"
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gene 26608..27447
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LP I IAPIGM DENFNTYINADDAACAI AKALKA EKLAFL TD TAGLYENFEDKNSLISK
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FAKYNDFSSVERLVNEKTCIILLESVQEGGVNPAQKDFYKALRKL CDEKNILLIADE
IQCGMGRSGKFFAYEHSGILPDVMTSAKALGCGLSVGAFVVSEKVAQKSLEAGDHGST
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FGTRRAHGSEAALKGARAAIIGGCKASSCTLAGKNYGIMTSGMTAHSWVQMFDELSA
FCRYLELYPQNPIILLIDTYNYKQGLENAIKAFKKFKIKQCGVRIDSGNLEILSKEIRA
ILDKNLKECKIIVSNLSNEKSIDKLLKNNAPIDAFGVGEKLITASSDPIFGCVYKLV
AIEENKLITPKIKISEDKQKTTLPHFKKLFRIYDKNTQKMLFDELYIYNEKLPQLDEN
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YEELAGDVDDNKL LAMVANQILEGVYFYSGFTAIYALARAGKMLGSAQMIRFIQRDE
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CDS complement(33525..34082)
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CDS complement(34099..34455)
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CDS complement(34561..35256)
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gene 36048..37928
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CECARVSLGTIKEVIKLNLDLHTVEEITQYTKAGAFCKSCVKPGGHEKREYYLVILAE
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gene 12301..13458
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 /locus_tag="DMACINML_01584"

CDS 12301..13458
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gene 13455..14072
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CDS 13455..14072
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gene 14075..14743
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CDS 14075..14743
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gene 14733..15512
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CDS 14733..15512
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gene 15509..16534

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 LFIGNFDKLIIVNTQFDNQNLQTKKFYEYWNLDLNTNPQRAKEFVIYVTIALFPLASTLF
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gene 16534..17256
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gene complement(17253..18464)
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gene 19042..19452
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CDS 19042..19452
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gene complement(19470..20552)
/gene="trmA"

CDS complement(19470..20552)
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VEFLATKNELSTLLYHKNIELICDDLNNLSLELDANLIARSKGKLVFKKENLRQEL
DIQGRKIFYEFNDCFIQPNTSINEKMITWVCENLQAQERKDLLELYCGYGNFTLALA
IFFDKVLATEISKSNINFALLNCKINNISNIHFTRLSSEELSQALKKEREFFRLKIDID
LDFNFVSHILVDPFRAGLDKSVIDLKKNYENIYISCNPISLKENLKELSLTHRVEKF
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gene complement(20549..22279)
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CDS complement(20549..22279)
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/inference="ab initio prediction:Prodigal:2.6"

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ANLLIVGPIMRPLADKFKISREKFAFVIDSTAAPVAGIAVISTWIGLEVSLIKNAYED
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PKSGTLDTAEFEDQFLAPKEGIKIRALDATIPILTIIILAILGFYFNGLSTLKGEELI
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gene complement(23022..24263)
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CDS complement(23022..24263)
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DKGSDIYYTTNALNEFLNWAVGETKIHKDISPLAKVLSNKNHSISYIQDFIYSNNLNR
DELTIGLQAALLKQRSKDILNLLIRLGARIDEGYENALFYALESYDNTKFLLELGLNV
NSANTFGKTPLFYAIEFQRKDIVSLLL EYGADV NKKYINDNEKLALSANIGGNTPYFI
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gene complement(24322..26868)

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CDS
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 IEGLPNLKVEQAFELSDASAERSAAACSV DLSIESVSEYIKSNISLIEAMIEAGYEDK
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 ILADANRPKNIDEV FVGSCMTNIGHYRALGEILKDKGMLKTRLWVVPPTKMDKAQLTK
 EGYYSIFGSAGARIEVPGCSLCMGNQARVNDGAVVFSTSTRNFDNRMGMGAKVYLGSA
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gene
 26923..27399
 /gene="ogt"

CDS
 26923..27399
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 /EC_number="2.1.1.63"
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 methyltransferase"
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 EELSLYFAKKLQKFQTP LWIQGSEFEQKVYKELINIPYAKLVTYKEIAININHPKAFR
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gene
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CDS
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TLLSRSSFFFTTLVCDNLYFKNLNLPFIYAKIFAKIMFYLKEKNTKMSFDFNKIDDFK
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gene complement(28321..30207)
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SLLLSPKSCQKQVGLALNFEISPTNYQKLILQNELLDFTNACEALFPKIEKPLLS
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gene complement(30217..30414)
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gene      31838..32323
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gene      complement(32220..33848)
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LOCUS DMACINML_12 47897 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

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 LFGESGVGKEVFSRFIHENSKRSQKPFVAINMAAIPSNLIESELFGEKGAFTDANAT
 KIGLFEMANNGTLFLDEIGEMPYEIQAKLLRALQEKEITRLGSTKSIKIDVRIISATN
 ANLQDKIDKGEFRSDLYRNLTVPINIPPLRERKEEILGIAQKVLNCTEYEFEMKK
 LSQEAQKALLEYNFPGNIRELISIVQRACILSEGLEISEQDLFL EARSVKKDVKNLEK
 ELLEQILEQCEFDKEKASNELGMSVENLNKIKQYKIKEK"

gene complement(13291..13740)
 /locus_tag="DMACINML_01637"

CDS complement(13291..13740)
 /locus_tag="DMACINML_01637"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35143.1"
 /note="hypothetical protein Cj1025c"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_01637"
 /translation="MERIVCLLIFFSFKLIAQDEFIFWAELSNKNLILFHQSQNLSPA
 MTRSKDTISEFACEISYTENDLKKLPRTLMIDDDMPKAIKFDLNAHKDELGDCFM
 GAKISVKDIVKTDLLKAQNETYVKILPLRFSVEFGERSALIYYLKKK"

gene complement(13716..14237)
 /locus_tag="DMACINML_01638"

CDS complement(13716..14237)
 /locus_tag="DMACINML_01638"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35144.1"
 /codon_start=1
 /transl_table=11
 /product="putative lipoprotein"
 /protein_id="Prokka:DMACINML_01638"
 /translation="MKKFYFMLVIAGIFAGCTASTNNTTAKNPNNASTSAQASDIVVQ
 KVDKDDVRDIREEKMLAPDVSESELSFSAVGEGIAPLNTVSSAQALALAKRAAITDA
 YRQLASKLYGVKVNKDTVKDAMLRSSITAQVNGLIKNASIIDENFNQGLYRVNVEL
 KIDADKWKELFAY"

sig_peptide complement(14157..14237)
 /locus_tag="DMACINML_01638"
 /inference="ab initio prediction:SignalP:4.1"
 /note="predicted cleavage at residue 27"

gene complement(14302..16872)
 /gene="gyrA"

CDS complement(14302..16872)
 /gene="gyrA"
 /locus_tag="DMACINML_01639"
 /EC_number="5.99.1.3"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:CAL35145.1"
 /codon_start=1
 /transl_table=11
 /product="DNA gyrase subunit A"

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/protein_id="Prokka:DMACINML_01639"
/translation="MENIFNKDSIELIDIENSIKSSYLDYSMSVITIGRALPDARDGL
KPVHRRILYAMNDLGVGSR SAYKKSARIVGDVIGKYHPHGDTAVYDALVRMAQDFSMR
YPSIDGQGNFGSIDGDGAAAMRYTEARMTILAEELLRDIDKDTVDFVPNYDDSMSEPD
VLPARVPNLLLNGSSGIAVGMATNIPPHSLNELVDGLLYLLDHKDASLEDLMQFIKGP
DFPTGGIIYGKKGII EAYRTGRGRVKIRAKTHIEKKSNDIIVIDELPYQTNKARLIE
QIAELVKEKQIEGISEVRDESDREGIRVVI ELKREAMSEIVLNNLFKSTTMESTFGVI
MLAIHNKEPKIFSLIELLNLFLNHRKTVIIRRTIFELQKARARAHILEGLKIALDNID
EVIALIKNSPDNATARDSLVAKFGLTELQANAILDMKLGRLTGLEREKIENELAE LMK
EIARLDEILKSETLLENLIRDELKEIKNKFVPRITQIEDDYDDIDIEDLIPNENMVV
TITHRGYIKRVPSKQYEQKRGKGKLA VTTYDDDFIESFFTANTHDTLMFVTD RQGQL
YWLKVYKIPEGSRTAKGKAVVNLINLQADEKIMAIPTTDFDENKSLCFFTKNGIVKR
TNLSEYQNIRSVGVKAINLDENDELVT AIIIVQRDENEEIRLLDDDSLNDENINSDENL
IESIKGKMLFAVTKKGMCIKFLAKVREIGRVS RGVTAIKFKEKNDELVGAVVIESDE
QEILSISAKGIGKRTNAGEYRLQSRGGKGVICM KLTDKTKELISVVIVDESMDLMALT
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gene      complement(16912..17487)
          /locus_tag="DMACINML_01640"
CDS      complement(16912..17487)
          /locus_tag="DMACINML_01640"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL35146.1"
          /codon_start=1
          /transl_table=11
          /product="putative purine/pyrimidine
phosphoribosyltransferase"
          /protein_id="Prokka:DMACINML_01640"
          /translation="MKCLNCGVFTLLCFCHHCAEELSEFSLGVRELEKDFKVYSFYKY
HEIKHLLHAKHKFYGYFVFHFLAKLSFFKFKNFFSVNEQINVIPLDDRVENLLYSHSA
ILAKYLKTESIKPVFGALHAQNHLKYSGKSLKFRQDNKRNFKLLKKINNPVILVDDIV
SSGSSLLEAKQFLEKNKISVLFVAVLADAKV"
gene      complement(17484..18128)
          /gene="mapA"
          /locus_tag="DMACINML_01641"
CDS      complement(17484..18128)
          /gene="mapA"
          /locus_tag="DMACINML_01641"
          /inference="ab initio prediction:Prodigal:2.6"
          /inference="similar to AA sequence:RefSeq:CAL35147.1"
          /codon_start=1
          /transl_table=11
          /product="putative lipoprotein"
          /protein_id="Prokka:DMACINML_01641"
          /translation="MNKKILFFIALALFLNACASKQNTFTQVNQLSKASECVPCESSS
GFEAKIKGLLYSDIGIQCCANKRTLDTGVALKKVYLHRFYDLKEEQKVLNANGQKLF
VNLDNFNAV FYVYLKQELEARGIIVLDDNKANSPYVTKIDLAFIGYSAKQDSLGLHSRL
VGVLSLNDINRNKKFTLRTKQDVQGFENLKD ISFYTHLLIKQMANKAASIISEL"
sig_peptide complement(18069..18128)
          /gene="mapA"
          /locus_tag="DMACINML_01641"
          /inference="ab initio prediction:SignalP:4.1"
          /note="predicted cleavage at residue 20"
gene      complement(18216..20012)

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/ gene="lepA"
/ locus_tag="DMACINML_01642"
CDS complement(18216..20012)
/ gene="lepA"
/ locus_tag="DMACINML_01642"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35148.1"
/ codon_start=1
/ transl_table=11
/ product="GTP-binding protein"
/ protein_id="Prokka:DMACINML_01642"
/ translation="MSVKNIRNFSIIAHIDHGKSTLADRIISECGAISDRQMSSQVMD
TMDIEKERGITIKAQSVRLNYKFNNENFILNLIIDTPGHVDFS YEVSRLASCEGALLV
VDASQGV EAQTIANVYIALENNLEIIPVINKIDL PNADVEKVKHEIEHIIGIDCKEAI
CVSAKTGVGIKELIETIITKIPAPKTDDEAPTKALIYDSWFDNYLGALALVRIYEGSI
TKNDEVLVMSTEEKHIVQDLFYPHPLSPIKTQSLQSGEVGVVVLGLKTVGDVQVGDITI
TLVKNKAKEAIGGF EKAKAFV FAGLYPIETDKFEDLRDALDKLKLNDSSITYEPETSL
ALGFGFRVGF LGLLHMEVIKERLEREFNLDIATAPTVTYIEIYQTDGELIKIQNPSEL
PPV NKIDHIKEPYVKATIITPSEFLGNLITLLNRKRGVQVKMDYITPERVLL EYDVPL
NEIVMDFYDKL KSLTKGYASFYEP IEFRVGDLVKLDIKVAGENVDALS IIVPNEKAQ
SKGRELVSAMKEIVPRQLFEVAIQASIGNKIIARETVKSMGKNVTAKCYGGDITRKRK
LLEKQKEGK KRMKAIGKVNLPQEAFSLVKID"
gene 20141..21424
/ gene="cmeD"
CDS / locus_tag="DMACINML_01643"
20141..21424
/ gene="cmeD"
/ locus_tag="DMACINML_01643"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35149.1"
/ codon_start=1
/ transl_table=11
/ product="outer membrane component of efflux system
(multidrug efflux system CmeDEF)"
/ protein_id="Prokka:DMACINML_01643"
/ translation="MFKKYLTLIHKAILVFLPLSLSASNLREFIALSQTNEQYLIKQ
MQSEQASLSRSQTRNYLPSLSLNSAYIANNKDYFIINPKESLFAKLSLNL LLYDGG A
REANLRALESKEKLSLLDKEQSKNYLALSAITLYFN TLSLEKILLANKQKVEFLRSTF
ERLQKFHDAGLSPKDELESIKAKYHLSLELSQNELKLT SIQKEIRILSNTNFTPSGN
AFLENPNQEK SQSYEVLIAKEQINLAKESVNLAKAEYFPKFYIQDNFGFYKNNYSPEI
PVYYQNVADRFLQKYSQNNQF ILGVWKIFDFNARAKEVEKERLNVQIANANARLSER
KNKEELNYINQSLKVLKQIYTLNLSLNAANLAFESVDK KYQAGLVSYVEYLQALEAK
FKAQSDLELAHNEFEITKANYF NAGIDLNSKVRE"
gene 21421..22161
/ gene="cmeE"
CDS / locus_tag="DMACINML_01644"
21421..22161
/ gene="cmeE"
/ locus_tag="DMACINML_01644"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35150.1"
/ codon_start=1
/ transl_table=11
/ product="membrane fusion component of efflux system

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(multidrug efflux system CmeDEF)"
/protein_id="Prokka:DMACINML_01644"
/translation="MKVIVFLIFIFNLAFSEEIYASFNVEAAKQSKLALLESMLVEQI
PVKIGQRVKKGELLSLEQTSEKISLQNAQNSYKLALIEFENTQSKMKKFAVENVID
KQSYEDMKAKFEAANLNLTKAKINVEYYKNILAKKELRAPYDAIVSNKFIQIGEGVGG
VAQPLIEIFSYPQSKLVLSFDERYKDQVKIGDEFYKIDQSNTEYKGGKITLIYPSIEV
KTRKIYAEVETQNLTPGLFGEGRIITRD"
gene 22165..25182
      /gene="cmeF"
CDS   22165..25182
      /locus_tag="DMACINML_01645"
      /gene="cmeF"
      /locus_tag="DMACINML_01645"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CAL35151.1"
      /codon_start=1
      /transl_table=11
      /product="integral membrane component of efflux system
(multidrug efflux system CmeDEF)"
/protein_id="Prokka:DMACINML_01645"
/translation="MFKLAINRPVTMLMFFLALMLFGMISALSMSVNLFPNVSIPLIK
ITSKVNGDLKFVESKITKEIENTLSEIDGVKTITSATYDNFSVSVVEFKLGKDEVA
NDVRDKIGTLSLPTKPEIEKISSDSGSAISL FVYSKDKLNL MREINDKIKPFLQRIDG
VGKIEAKGFLEPQIRIELKPNLEKYNLNALEIANI IKNQNFKQALGELNNNQNNYII
KGYFEATNLEELANLRIKTGVFLSDIANISNLYEDEKQSAIYKNQEGVLLLELGKITNF
NTLKM IQNVKNALPNLEKQISNDISIEVLYDKSLNIHKHLSQVIFDMVLGIFLTLVIV
FLFLRNL SATLIAIAIPTSII STFFIIDLLGYDLNRLTFIAL TLSIGIFIDDAIIVI
ENIAKCLKTYPPLQA AFLGISEIGFSVLSISIVLLCVFIPISYMNSIPGLFFNALGIS
VAGGIVISFLVSVFLIPSL SARFLNPKESKFYEKTEAFFEKMEQKYENLLYKILKNKA
KFILATLIFVALSFALATRIGLDFLPMEDDSEIQV LLESKKDL SLEAMKEKSLHLLLEK
IQMEENIAYAFLL LAYDDAKDSTKAKIYIKL KGLEERKLRQNAIVNLYRQKFQDEDLK
IKILELPKIEGAGIDDPVQFLVLGEDLKS LKEAASRAKEILASNTRIVDINDNADMIK
SEVALHINREKAKLLDVDPEYIAGILGYSFAQLSIGSMDRGNSKDDIILSFAPQFKKD
IEALKRISIKNNKGLNLDLASVIDFTYSEDLKTINRYNKNRSVKITAGVNDLSLGAVQ
TLLLDNIDTILGENTNLNYTFSGFINLLDET VQGFIVAVILAFVLIYLVLAALYESFI
LPLIIMITMPLAFGGTSIGLFI SGHNFSLFVLI AII LLFGMVGKNAILLV DVANKKCH
EGLDPDEALLIAGKSRLRAILMTTFAMIFAM LPLALSRGAGYEANSPMAIAVIFGLIS
STLLTLLVVPALFKFCFKLDTRLRKIYEREKIN"
gene  complement(25203..26009)
CDS   /locus_tag="DMACINML_01646"
      complement(25203..26009)
      /locus_tag="DMACINML_01646"
      /inference="ab initio prediction:Prodigal:2.6"
      /inference="similar to AA sequence:RefSeq:CAL35152.1"
      /codon_start=1
      /transl_table=11
      /product="putative DnaJ-like protein"
/protein_id="Prokka:DMACINML_01646"
/translation="MQIVQTLETINVNTDDINVFQYFKDLITKNFTKVVGRKNKIFSF
FEENEIPQRRYFLKVL DQYRKSSNESIENLKDAHFKTFRLNFEQNNVLKPMLFIKVD
FAGDKILMKLSSNEKLFV TYMKNYFKEHCIEYNEMTRILILDYKNESTFEFF EAFAD
SEHLKYCVNFEVDRQEYKNFRQNIHNKENMKWKFNALAKLFSNYFNTLECTPQNDLSE
IRHKYLIMVKLYHPDFYQGKSAIEQAYAREQFEKIQIAYDNLKALYKNNT"
gene  complement(26011..26730)

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/ gene="ate"
/ locus_tag="DMACINML_01647"
CDS complement(26011..26730)
/ gene="ate"
/ locus_tag="DMACINML_01647"
/ EC_number="2.3.2.8"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35153.1"
/ codon_start=1
/ transl_table=11
/ product="putative arginyl-tRNA-protein transferase"
/ protein_id="Prokka:DMACINML_01647"
/ translation="MLEIGFCTLEDECPYLKDRRSRIEYKYIENCSKEINSKLIRRGW
RRFGRYFSRPICKDCKECLSLRILADEYKFSRSERRVINKNANTKIILRKPLLSNEHL
FLYDKYHRFMEEKRTWKRYDLNFRQYYNLYIDGFMNFGYELAFYVEDKLCVLDLIDRL
EDGISSIYCFYDPEFSHLSLGKFSLLNEIEIAKKEKLYIYLGYFVKKCQSLSYKADY
TPNEILKGTRELFENEILWER"
gene complement(26730..26966)
CDS / locus_tag="DMACINML_01648"
complement(26730..26966)
/ locus_tag="DMACINML_01648"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:CAL35154.1"
/ note="conserved hypothetical protein Cj1036c"
/ codon_start=1
/ transl_table=11
/ product="hypothetical protein"
/ protein_id="Prokka:DMACINML_01648"
/ translation="MDFDLSKSIKKEMQTHSKEQKSPKNSNKKDMSHFNKEIKTQPQ
EMSLDKEMQEVFLKQEKLQDEFLEFIKNADIKKI"
gene complement(26966..28408)
CDS / locus_tag="DMACINML_01649"
complement(26966..28408)
/ locus_tag="DMACINML_01649"
/ inference="ab initio prediction:Prodigal:2.6"
/ inference="similar to AA sequence:RefSeq:ADT66341.1"
/ codon_start=1
/ transl_table=11
/ product="acetyl-CoA carboxylase, biotin carboxylase"
/ protein_id="Prokka:DMACINML_01649"
/ translation="MVQIHKILIANRAEIAVRVIRACRDLHIKSVAVFTEPDRECLHV
KIADEAYRIGTDAIRGYLDVGRIIEIAKACGADAIHPGYGFLSENYDFAKACEEAGII
FIGPKSEVIHKMGNKNIARKLMAQNGIPIVPGTEKLNITYSMDEIKVFAEKIGYPVILK
ASGGGGGRGIRVVKHEELENAFDCKREALTYFNNDEVFMEKYVVNPRHIEFQILGD
NYGNIIHLCERDCSIQRRHQVIEIAPCPGISDNLKRTMGVTAVAAAKAVGYTNAGTI
EFLDDYNRFYFMENTRIQQVEHPVTEEITGVDLIVRQIRIAGGEILDLEQSDIKPRG
FAIEARITAENVWKNFIPSPGKIGEYYPALGPSVRVDSHIYKDYTPPPYDSMLAKLI
IKATSYDLAVNKLERALKEFIIDIRTTIPFLIAITKTREFRRGYFDTSFIETHMQELL
ENTEDRHQDNKEEVIAAIAATLKKIRESRE"
gene 28544..29707
/ locus_tag="DMACINML_01650"
CDS 28544..29707
/ locus_tag="DMACINML_01650"
/ inference="ab initio prediction:Prodigal:2.6"

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/inference="similar to AA sequence:RefSeq:CAL35156.1"
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/transl_table=11
/product="putative cell division/peptidoglycan
biosynthesis protein"
/protein_id="Prokka:DMACINML_01650"
/translation="MIADKCLFYLSCLISIGIVFSYSLTVFTVLFDDYSEFHFFIRQ
LFFGLSGILIMFFISRLDPDKILAKRIILAILIGSFICIIILPFLPSALATASGGAKR
WIRLGPLSISPVEFFKIGLIYFLAWSYTRRIDDSKKAIKEVLIILPYCILASIVIGY
IYITQNDLGQSVISFFLILALAFFAGASKRLFAFGILIIIMMIGIMVIFSNQRRIQRIA
SWWGNIQDAFLPMLPDWMADALRVSGNSEPYQISHSLNAIAHGGMFGEGGLGLGTFKLG
FLSEVHTDFVLSGITEEIGLFGLVICFIYLMILRIFRIAGRCEEKQDFIFCSGIAL
LLFSFFMNAFGIISLTPKGVAVPLLSYGGSSMWAICIGIGYVLMISKVKL"
gene 29704..30720
/gene="murG"
CDS /locus_tag="DMACINML_01651"
29704..30720
/gene="murG"
/locus_tag="DMACINML_01651"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35157.1"
/codon_start=1
/transl_table=11
/product="putative
undecaprenyldiphospho-muramoylpentapeptide
b-N-acetylglucosaminyltransferase"
/protein_id="Prokka:DMACINML_01651"
/translation="MTIVLTGGGTGGHLAIVRCLLESIAIKKNIDCVYIGSQNGQDRAW
FENETRFKAKFFLSSRGVVNQSKLKGKINSLHTFKLSKECKQIFKDYDIKAIKIFSVGGY
SAAPASFAALFSHLPLFIHEQNSKSGSLNKLKPFKQFYSAFEKEIVPYPVADKFFD
KARIRKELKNIIFLGGSQGAKFINDLALNLAPELQKKGIGIIHQCGKNELEKYQQAYK
DLNIQADVDFDFPHLEEKMNADLAISRAGASTLFELCANTLPSIFIPYPHAAKNHQY
FNAKFLQDKALCQIFMQNNTYSDEILKAILKLNLEDISTRKDMAQKNGADILLEKAL
ETMK"
gene complement(30710..31873)
/locus_tag="DMACINML_01652"
CDS complement(30710..31873)
/locus_tag="DMACINML_01652"
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/inference="similar to AA sequence:RefSeq:AJK71184.1"
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/transl_table=11
/product="MFS transporter"
/protein_id="Prokka:DMACINML_01652"
/translation="MLSFKKIFWLNVAIVIIIVAFNLRAPITAIGPMIDIIQDEYNLNS
TLAGVLTSLPLIAFGSISFIVGYFSPIRAIIVGIFLIFIAELIRSYLGVYGLFLGMLG
IGCGIAIANVLLPSFIKEKFPKMMASMMGIYSLVLSISSIAGIALSMPLLNIFDLAGA
MVFWSVFSFIALMIYYPQAKNGRFFRTKKKESKINLLKNPTTWKITLFMGFQSFLAY
SLFFWYVQIIVEKGYDKDFATDMVLFSQLVAAPVSLFGPLLLGKLLKSLHTPYIAILC
AMYAVSFGIILAFDTRFMIIILAAFIVGFPWGGVFGIALLFIAQKSSNAKIAARLSAFA
QFGYLIQAQGWIIIGIFHDMFGNFTSSICILFIVGILVNIIFGYLAYKSKVIS"
gene complement(31881..32735)
/locus_tag="DMACINML_01653"
CDS complement(31881..32735)

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/product="ATP-binding protein"
/protein_id="Prokka:DMACINML_01653"
/translation="MKKYVLSLALVGASLLGASELKYQEFDFGFKSPESIFVDKNSVYV
SNVGEKLEPLAKDNDGFISKLDKNGKVL EHKFISNLNAPKGMMEVANTLYVVDIDVVR
GFDLKSKEVFNLPKGAIFLNAIEKLNDDTLLVSDTGTGLVLKVDLKAKKYDELKLL
DIAKFGGPNGLYLDRKNDKLFIAGYHPDGASGGVMSYDLKDKELSVIKNEKEAYDGI
VPYENALLVSSWGENLNGVIYRLEDDKVLKLDLPSIKGPADIFIEGDTLWIPKMVEGK
ILKVELKN"
gene complement(32798..33688)
CDS /locus_tag="DMACINML_01654"
complement(32798..33688)
/locus_tag="DMACINML_01654"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AJK71907.1"
/codon_start=1
/transl_table=11
/product="AraC family transcriptional regulator"
/protein_id="Prokka:DMACINML_01654"
/translation="MEQILSLPQDLKQLKGVVDYKNFKSCTFAKYTQVSASHSSFVNVG
SHLLTFVRKGYKILHTASKDYKIDSYETLFLKAGNYTLSNVGLSSGVYEAYLFFFDNA
FLIELIYKYKELFKLEQASRESEIFWVKNDKILQGILESFTPHFDENTQILDPIVSLK
FEEIFLHLLLNKNTYFIGFLAGILKEFRLDLSQLFEYCGREFVSVSEMAADFALDFAT
FSREFKCKFGQSPKKWLDEKRLQKAKVLLFEFSKKNVNEIANECAFSVAVFIERFKEK
YNQTPKQYQKSKNLYFLSKN"
gene complement(33703..34308)
CDS /locus_tag="DMACINML_01655"
complement(33703..34308)
/locus_tag="DMACINML_01655"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:AJK71186.1"
/codon_start=1
/transl_table=11
/product="thiamine-phosphate pyrophosphorylase"
/protein_id="Prokka:DMACINML_01655"
/translation="MWDKKIIAISDRKCEIDFLKQVEKLAKSGIDAFVLREKDLSEF
EYYDLAKEVLAICAKHKTTCFLHFFDKECLKLGHRYFHAPLALLRQEPKMSKYFHIIG
TSVHSKEELLEAMNYGVNYAFVGHIFESSCKKDLEPRGLEFLNSLLSFSQIPLYAIGG
INVQNIASFKDINVAGVCMREVL MREKDVKKYLVECKRNLL"
gene complement(34298..35443)
/locus_tag="DMACINML_01656"
/locus_tag="DMACINML_01656"
/locus_tag="DMACINML_01656"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CAL35162.1"
/codon_start=1
/transl_table=11
/product="thiazole biosynthesis protein ThiH"

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/protein_id="Prokka:DMACINML_01656"
/translation="MQDYMQYLPQMQLKSDILSKVLDEIQNYDETKYSAKEVQEALN
ATHLSIENLKALLSSAAEDFIEELAFKSAKTKQKYFGNSISLFTPLYLSNYCNSKCVY
CGFQKGNKIARAKLSEDEIHEEMQAIKTLGLQEILMLTGEGRFASVEYIAKACKIAR
QYFKVVGVEIYPMNEDEYKILHENGCDYVTFIQETYNPLKYSKIHLGGEKRIFPYRFN
GQERALRAGMRGVAFAALLGIDDFRKDALATALHAYFLQKAYPHAESISVPRLRPII
NNAKIHPKDVSEKRLQLVLCAYRLF LFPAGITISSRERVGFREDEVKLGATKMSAGVS
VGIGEHLKGDKKGDGQFEISDDRGVDEILAMLKNSNLQAVMSDSIYVG"
gene complement(35446..36222)
/locus_tag="DMACINML_01657"
CDS complement(35446..36222)
/locus_tag="DMACINML_01657"
/EC_number="2.8.1.10"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CKG89409.1"
/codon_start=1
/transl_table=11
/product="Thiazole biosynthesis protein ThiG"
/protein_id="Prokka:DMACINML_01657"
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ORIGIN

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47761 gaggctttat tttgatatta ttaaactctgc catgataatg taaagaaacc aaggaagctt
47821 tttcttgact atattccaac aagttatcgc caatatattg tgatatatac tttttatag
47881 aatcaaaggt tctttcc

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//

LOCUS DMACINML_13 41585 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..41585

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

24..641

/locus_tag="DMACINML_01672"

CDS

24..641

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gene

678..2108

/locus_tag="DMACINML_01673"

CDS

678..2108

/locus_tag="DMACINML_01673"

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/inference="similar to AA sequence:RefSeq:A0H52016.1"

/codon_start=1

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RINKSNSLKYIEKINEEKEKEIEKLLQSNEKINEEFDKLDKGTLPPTKEYKRKNYEYD
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SKKKISPKLIGDTGEYVASLLFGKRSTRYLSNQRKLDANFNIIYSFNHTIPDFLVSING
IPSLVEVKNVQVQSLTEQISFELKLAREYELDYIFVCNHYHTLTENVAGSALTREEHE
ELARDDKGVGEFNEETKRLKAKVAEVLNEKDDLNEEFIKSVSDGNKYLKEREKFY
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gene 2077..2610
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ELDSRIMAYYFRKEIKL"
gene 2610..3875
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2610..3875
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WLANKPNPYIEPKFYDGMSSGGYFESPNNLEYQCKIEKDTQVLSQEIQIISYVKELYSK
NTIIKKNYIDAINKDYGIKPFVFSDEIYDELGEVGILTKEQANNFKDKSYIKKDPILL
AMLDYLAQNKKDEDYLITFDDEYFYTYLVWSLKDFLLELSYGLFQDETELLFNPAAY
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gene 4566..4772
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4566..4772
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gene 5929..6801
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CDS 5929..6801
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VCRTNAKLFDAVENLDKLLFVGGINSYSFDELLDIQNLLFKKHHEYIKNQFIVKPAD
LKELLEYINETKEVDLQKIFVLFKYVHGDIKLIKAIKSSVKKQEADLILSTGHK
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KEFIQENLERIIIE"
gene 6798..7007
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CDS 6798..7007
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/inference="ab initio prediction:Prodigal:2.6"
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/protein_id="Prokka:DMACINML_01679"
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GMKLGKGFYMSKEAIIIEFQKNDGLL"
gene 7025..7174
/locus_tag="DMACINML_01680"
CDS 7025..7174
/locus_tag="DMACINML_01680"
/inference="ab initio prediction:Prodigal:2.6"
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TKDKK"

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/protein_id="Prokka:DMACINML_01681"
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FEYYILYCQFLQIDKESLFFGRNYELVFCFLLYRALLNKNNTQKIVAKIINVIRCQD
RLPEKVHYREKIICMDNQHRDLSQTLSSCIAEFYNSIDLNTFRKNIGFENRKKIAIE
MLNRASEHYGFFGLSRGGITYKEEKISCVPIQALDEFHHGMSHLCAVFLKEDGRYTNL
ERAIPHFKRGMMEVYKTIIRD FMILNKDALGVKQEALKIRELEYQTIGPKPTVTKNPT
TNLTNKKEEKVIPGYKELCEKIVSQIKNAK"

gene complement(8864..9892)
/gene="flgS"

CDS complement(8864..9892)
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/locus_tag="DMACINML_01682"
/inference="ab initio prediction:Prodigal:2.6"
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LRAMVDEIIEVLPSALWILDKEKNIILQNQEALKKPKLLDIISLEKNRDELEFENRFY
AVKIIAHNEKTIVSATDISDEKRNERLASMGVAHAHLAHEIRNPIGSISLLASTLFSR
SELKNKHIVLEIQKAIARVERIVNSTLLFTKGVHINASEFNLELTEECESAINSYNY
SSQIDFEINFLDKIYGDKALLSLVLQNLIIYNAIDAIEESEECENPKIKIQASCDEQNL
YIRVYDNGCEIKDENLVFEAFKTTKLGNGLGLSLSKEIINAHKGELKFEIWPKNFYF
VLPLHYNS"

gene complement(9889..10710)
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FKLDETASYALSLLAKNNRKRFSINRKIQHFALSTLKYLLRVGIKLEHSKEAKRVR
DKRQKLKKELRSYVIQDKIIFANQFTRFFFYFLKPNEKLILQNRYYEVLTLIKEKFEF
YQSFCEQLSRELLEKKFQVSGVQSYWDKNLELDLYYKDDKISFIGEVKFKNKKICRN
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gene 10814..12082

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 THSDSSLNSFKTQQIYEQARKDIKTSLNLSDEFALIACGSGSSSAIKKFQELLGIYIP
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 VLKENQHRKIIASFSLASNVTGILSDYKRISKLVKFKGIVAFDASSFIPYKNIACKY
 YDALFISSHKLIGGIGGSGLLAIKKELCGNKPSFAAGGTVDVVSRTSQCYLCNEEALE
 EGGTPGILQLIRASLAFKIKDEIGIEEIEKKEEILKEYFFEKLKTIPHLILYANNIKT
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gene complement(12086..12162)
 /locus_tag="DMACINML_01685"

tRNA complement(12086..12162)
 /locus_tag="DMACINML_01685"
 /product="tRNA-Asp"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Asp(gtc)"

gene complement(12184..12259)
 /locus_tag="DMACINML_01686"

tRNA complement(12184..12259)
 /locus_tag="DMACINML_01686"
 /product="tRNA-Val"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Val(tac)"

gene complement(12268..12343)
 /locus_tag="DMACINML_01687"

tRNA complement(12268..12343)
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 /product="tRNA-Glu"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Glu(ctc)"

gene complement(12357..12432)
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tRNA complement(12357..12432)
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 /product="tRNA-Lys"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Lys(ttt)"

gene complement(12436..12512)
 /locus_tag="DMACINML_01689"

tRNA complement(12436..12512)
 /locus_tag="DMACINML_01689"
 /product="tRNA-Asp"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Asp(gtc)"

gene complement(12534..12609)
 /locus_tag="DMACINML_01690"

tRNA complement(12534..12609)
/locus_tag="DMACINML_01690"
/product="tRNA-Val"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Val(tac)"

gene complement(12622..12697)
/locus_tag="DMACINML_01691"

tRNA complement(12622..12697)
/locus_tag="DMACINML_01691"
/product="tRNA-Lys"
/inference="COORDINATES: profile:Aragorn:1.2"
/note="tRNA-Lys(ttt)"

gene complement(12759..13544)
/gene="glnP"
/locus_tag="DMACINML_01692"

CDS complement(12759..13544)
/gene="glnP"
/locus_tag="DMACINML_01692"
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/inference="similar to AA sequence:RefSeq:CAL35060.1"
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/transl_table=11
/product="putative glutamine transport system permease"
/protein_id="Prokka:DMACINML_01692"
/translation="MSLFIQKCKNFKIQKPLSKKVIFFNALILIFILSLFFYFSFSVS
AYHFDFTSLLEYKNKIIYGFFQTLVSFFALMCSIILGVVICFFSLSKIIILRFFATL
YVELIRGTPLLVQVLLVFYIIANSLGFDDRYIVGIFILSMFSAAYLSEIFRAGVLSVP
IIQIESARALGLSERQIFLYIIFPQAIKNILAPISGQLANLIKDSSLLSVIALNELTQ
SIQEVNSYIFATLEGYIVLAFAYLILTLPIGIFSRYLERYKQK"

gene 13669..14046
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CDS 13669..14046
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ENLDFAVLIQDKNEIFLSNALGAKFLLFD DENLARFASEVAEFYLFDSKILLLVENLH
KLEKAYELRLDGVILKSLIQDYH"

gene complement(14054..15184)
/gene="creD"
/locus_tag="DMACINML_01694"

CDS complement(14054..15184)
/gene="creD"
/locus_tag="DMACINML_01694"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:UniProtKB:P08369"
/codon_start=1
/transl_table=11
/product="Inner membrane protein CreD"

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GIYKIPLYTAFVDFNASFNINLSNFDENSIQFFK GKLRNLQFNVLEDILWVSGTLQL
KGYGSDANLQAKENIIHINSNATNPSFEYALPNDYSVDKKGFSAFYEFENSILDDKV
EKKRLSVEFYQGVDDYRLIDRMIKYGYLFIIILFLVFLCELASKKNVILLQYAILGA
SLIVFYLMLLSFSERIGFNFAYL FSSLAIIPLSLYTL SIMGQKRFAIVMATILFILY
LCLFIMLKQDEYALLIGTFIAMFGIYAAMYFTRNLNKDYHQG"
gene complement(15177..16382)
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CDS complement(15177..16382)
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MAIMNGFDKEFEKRFVFNYPITIVPKFYSPMEDLVKELKREFPHLLFSPYISTQVV
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YDGVHVYSENAFKDVEKLKSYLKS DYAVVGWWEQNQNFFSALKLEKRALFIVLMLIIL
VASLNIVSSLLMIVMNRRAEIALLLALGASKLEIKKSFFALGMLIGGGGMIIGIILAF
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gene complement(16379..18967)
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CDS complement(16379..18967)
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/protein_id="Prokka:DMACINML_01696"
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SQNSDLEHKKAYDCDITYGTNNEFGFDYLRDNMFKSKAEKVQREHHFVIVDEVDSILI
DEARTPLIISGPTNRTL DGYIKANEVAKQMQRGEAVLPPAKPEGDFIVDEKRNILIT
EAGIAKAEKLF GVENLYSLDNAILAHQLDQALKAHNLFEKDVHYVLRNNEVIIVDEFT
GRLSEGRRFSEGLHQALEAKENVKIQEESQTLADITFQNYFRMYEKL AGMTGTAQTEA
TEFSQIYSLDVSIPTNIPIKRQDKDDL IYKTQNEKFKAVIEEVKKANAKGQPVLVGT
ASIERSEVFHNMLVKEKIPHHVLNAKNHEQEALIIQDAGKKGAVTIATNMAGRVDIK
IDDEIRALGGLYIIGTERHESRRIDNQLRGRAGRQGD PGISRFYLSLEDNLLRIFGGD
RIKNIMDRLGIQEGEHIESRIVTRAVENAQKKVESLHFESRKHLLEYDDVANEQRKTI
YRYRNELLDEEYDIKTKISQNI AEYSAYIMNDFMIEESGADLNFENLKAKILDECSVE
LKQSDFENLSLIEMQEKLSEVLEKSYDEKMSKLD SKQLHHIERILYLQVLDNAWREHL
YQMDILKTGIGLRGYNQKDPLVEYK KESYNLFLELVNRIKFDSIKLLFSVKFSQEEAQ
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LNDNQLIAKYENINYTITLKDNEIQSIAYKDEFENDILITLNHQIKNPAVNPEVFKAK
FPNHYDMIR"

sig_peptide 19076..19129
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/locus_tag="DMACINML_01697"
/inference="ab initio prediction:SignalP:4.1"
/note="predicted cleavage at residue 18"

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CDS complement(19589..20284)
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/protein_id="Prokka:DMACINML_01698"
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EFEGEKLEKENENKLTDAVNTVISGFFYEDIFTELGKNNFKKTLEKFKDKYKIKINEI
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QIDQLFQDDNTQNQYDNGEIDINTLNIPKITDIEEKIKRDLIANPPQIFKENNNSKEK
GFELNLDNSTIP"

gene complement(20295..21638)
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CDS complement(20295..21638)
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LGSSALSAFNIAGVTLHSFFCLGYCQDMTTLVDFDRNQQRERVIKLESKKIDLII
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FFWKELKFKNIKLTQPKRTHNLEFYGNLSLIRQGFLLDKILNFFENLCINTKELEELD
DDYTLCSINKKVNTVNDRLNKLESPLVCFKAEIRKECKDIDEHKKIQTWIKSLNILD
ELKIKIGARVIFCVNNWDKGYNGEQGIIESITYEEDKTYIGIMKSNGVKIMLEPYVF
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gene VALSRAINPTTLKIYFTKRINFKAYFASILKFDTSVREFYQNNDFLDLELENNII"
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 EGIPFDYASDSILNAGTPILVSHFSKDKRYAFVLSEAGVGFIESKDLEFFSDSRAQIY
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 AALVLIYFTNLHIIDAIIFGIVVSLYAFSAFKIISKALAFMLDEALPKEQVSQICALI
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 DIQIHLDPYDDEEQERQRQ"
 gene complement(24841..25818)
 /locus_tag="DMACINML_01703"

CDS complement(24841..25818)
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 /inference="similar to AA sequence:RefSeq:CAL35069.1"
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 RNSHLDKSQIEARLKEIFGLKQIIWLENGFIKGD DTDHHDITLARFIDKNTIAYSICE
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gene complement(25915..26352)
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CDS complement(25915..26352)
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sig_peptide complement(26278..26352)
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 /note="predicted cleavage at residue 25"

gene complement(26362..27954)
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gene complement(28051..29583)
/gene="purH"

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/protein_id="Prokka:DMACINML_01706"
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gene complement(29586..30518)
/locus_tag="DMACINML_01707"

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KAFDIAKSELDNFIASISNLKSTKKEKSLDEAYRILELSNNADLNAVKKQYRALAKKY
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gene complement(31296..33482)
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gene complement(34814..35665)
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CDS complement(34814..35665)
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/note="hypothetical protein Cj0957c"
/codon_start=1
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CDS      complement(35669..37264)
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gene      38674..39282
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CDS      38674..39282
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gene      39279..40475
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CDS      39279..40475
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/note="predicted cleavage at residue 18"
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gene complement(41117..41575)
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/locus_tag="DMACINML_01720"
CDS complement(41117..41575)
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/locus_tag="DMACINML_01720"
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ORIGIN

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ORIGIN

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LOCUS DMACINML_15 17241 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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ORIGIN

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DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

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ORIGIN

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LOCUS DMACINML_20 4471 bp DNA linear 16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species

ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.
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ORIGIN

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DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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gene 1150..2493

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gene 2568..3893

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ORIGIN

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LOCUS DMACINML_22 3998 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

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CDS

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ORIGIN

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LOCUS DMACINML_23 2942 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

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ORIGIN

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DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from

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[https://github.com/tseemann/prokka.](https://github.com/tseemann/prokka)

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ORIGIN

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2041 thaaaththctat ththaaaththth gathththththth ththththththth ththththththth ththgathththgthc
2101 gataththththth ggaaththctatc ctthththgthgct thththgaththgthgth actathththththca aaththgaththgathth
2161 aththththththth atthththgththca aaththththththth gaththgaththththth ththgathththththth aaththgthththththth
2221 catgththgathth ththctththththct atthththththththca aathththththctc aaththththctthth gcaaththctgthc
2281 thththctththctg ctthththththththg gctththctththththth gthcaaththththctc ththgaththgaththth agaththththththth
2341 gaththththththth ththgaththcaaga aththctththththth acaaththththththth gaththththththththth agaththththththththth
2401 thggthththththth ctththththththththth thththththththctc aaththgaththgthgthth ththththththththth ththgaththctgthgth
2461 gthththththththth ctctththctththth aaththgcaaththththththththth gaththgathththththth aaththththththththth agththththththththth
2521 gaththgthgctththg athththththththththth thththththththththctc ththththththththth ataththththththththth th

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LOCUS DMACINML_25 2204 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

1..2204

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(2..78)

/locus_tag="DMACINML_01823"

tRNA

complement(2..78)

/locus_tag="DMACINML_01823"

/product="tRNA-Ile"

/inference="COORDINATES: profile:Aragorn:1.2"

/note="tRNA-Ile(gat)"

gene

complement(86..161)

/locus_tag="DMACINML_01824"

tRNA

complement(86..161)

/locus_tag="DMACINML_01824"

/product="tRNA-Ala"

/inference="COORDINATES: profile:Aragorn:1.2"

/note="tRNA-Ala(tgc)"

gene

complement(263..1772)

/locus_tag="DMACINML_01825"

rRNA

complement(263..1772)

/locus_tag="DMACINML_01825"

/product="16S ribosomal RNA"

ORIGIN

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1 atggtgggcc taacaagact tgaacttgtg acctcaccct tatcaggggt gcactctaac
61 cagctgagct ataggccctt aataatgggt gagaatagcg ggatcgaacc gctgacctcc
121 tgcgtgcaaa gcaggcgctc tcccagctga gctaattccc cataaacaat tagctttatc
181 atcaatcttt gaaatctaaa caagaatcaa ttgagtttat aatgaagtaa tagttgtgag
241 acttattact ttgtactcta gaaaggaggt gatccaaccg caggttctcc tacggttacc
301 ttgttacgac ttcaccccag tcgctgattc cactgtggac ggtaactagt ttagtattcc
361 ggcttcgagt gaaatcaact cccatgggtg gacgggagggt gagtacaaga cccgggaacg
421 tattcaccgt agcatggctg atctacgatt actagcgatt cgggcttcac gctctcgagt
481 tgcagagaac aatccgaact gggacatatt ttatagattt gctccacctc gcggtattgc
541 gtctcattgt atatgccatt gtagcacgtg tgtcgccctg ggcataaggg ccatgatgac
601 ttgacgtcgt ccacacctc ctcctcctta cgaaggcagt ctatttagag tgctcggccg
661 aaccgttagc aactaaatac gtgggttgcg ctcgttgagg gacttaacc aacatctcac
721 gacacgagct gacgacagcc gtgcagcacc tgtctctaag ttctagcaag ctagcacctc
781 catatctcta taaggttcctt aggatatcaa gccaggtaa ggttcttcgc gtatcttcga
841 attaaaccac atgctccacc gcttgtgagg gtccccgtct attcctttga gttttaatct
901 tgcgaccgta ctccccaggc ggtacactta atgcttagc tgcattactg agatgactag
961 caccccaaca actagtgtac atcgtttagg gcgtggacta ccagggtatc taatcctggt
1021 tgctccccac gctttcgcgc cttagcgtca gttgagttcc agcagatcgc cttcgcaatg
1081 ggtattcttg gtgatatcta cggattttac ccctacacca ccaattccat ctgcctctcc
1141 ctactctag actatcagtt tcccaagcag tttaatgggt aagccattag atttcacaag
1201 agacttgata atccgcctac gcgcccttta cgcccagtgat ttccgagtaa cgcttgacc
1261 ctccgtatta ccgcggtgc tggcacggag ttagccgggt cttattcctt aggtaccgtc
1321 agaattcttc cctaagaaaa ggagtttacg ctccgaaaag tgtcatctc cagcggcggt
1381 tgctgcgtca gggtttcccc cattgcgcaa tattccctac tgctgcctc cgtaggagtc
1441 tggaccgtgt ctcagttcca gtgtgactga tcatcctctc agaccagtta agcgtcatag
1501 cttgggtgag ccattacctc accaactagc tgatactata tagtctcatc ctacaccgaa
1561 aaactttccc tactcaactt gtgttaagta ggagtataga gtattagcag tcgtttccaa
1621 ctggtgtcct cttgtgtagg gcagattaac tataccttac tcaccctgac gccactaatc
1681 cacttctagc aagctagaag cttcatcggt cgacttgcat gtattaggca cgccgccagc
1741 gttcactctg agccaggatc aaactctcca taaaaattat agatagttta atcttttct
1801 tcaaagaaaa agtaatgaag attaaaaata aaaactttta atctttaaat atttagattg
1861 aatagatttt acataattgc ttatgcctaa atcttttctg gctcaatcga tcacttattt
1921 agatttcaaa gattgactaa taagatttga aataacaata ttaattttaa agaacaaaaa
1981 caaaaaatca tttattgttt ataaataaag tttagtaata ataaagtttt ataaacttga
2041 attgatttga ctaggattaa aattaattta aaactagaaa caagggttta caaatcttc
2101 atttagcttt ataaacttta gtttataatt taaagatttt aaagtccttt tttgaaaaag
2161 gaaatgaaag tataactaat taagcttaaa ggaggattaa ataa

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LOCUS          DMACINML_26                2132 bp    DNA        linear        16-DEC-2020
DEFINITION     Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS       .
SOURCE         Campylobacter species
  ORGANISM     Campylobacter species
               Unclassified.
COMMENT        Annotated using prokka 1.13 from
               https://github.com/tseemann/prokka.
FEATURES       Location/Qualifiers
  source        1..2132
               /organism="Campylobacter species"
               /mol_type="genomic DNA"
               /strain="strain"
  gene          59..520

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CDS /locus_tag="DMACINML_01826"
 59..520
 /locus_tag="DMACINML_01826"
 /inference="ab initio prediction:Prodigal:2.6"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_01826"
 /translation="MEYSQEKASLVSLHYHGRFNINIKDNIRDSIIKNSRFLWFLIRY
 KTNPKNFIPFLIRACDEADIYLSNPINIKISLIFDVFSYLNKREIIKYRIHKINTNR
 TSSKQVHKQDTLYNLALWYENDLDFIPYQDYIIDLKKFKNLNQFHNLPKSP"
 gene 854..1195
 CDS /locus_tag="DMACINML_01827"
 854..1195
 /locus_tag="DMACINML_01827"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:APA47441.1"
 /codon_start=1
 /transl_table=11
 /product="DNA-directed RNA polymerase subunit beta"
 /protein_id="Prokka:DMACINML_01827"
 /translation="MYLKYPDTEEQQAQAINPQAFSCSTQEELILKKEDEIYFKAVKNN
 ISYFINKNDGILKVALTGNEENAIELYSFAKENQFKILQDKASKMLKIYKLERYSK
 EILSHRGEILN"
 gene 1438..1974
 CDS /locus_tag="DMACINML_01828"
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 /locus_tag="DMACINML_01828"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:APA47441.1"
 /codon_start=1
 /transl_table=11
 /product="DNA-directed RNA polymerase subunit beta"
 /protein_id="Prokka:DMACINML_01828"
 /translation="MHKIGNVAIVSLSSADKKGGSYFTTNKVSMDGFENLYLDTEAN
 GYEKQIKNSRKNLYITNLKAYKEKEQNITDKIPYNKIFVFRAYLNNEEKFFFDEAIK
 WAYCIKKEVELEGNQPKINILENLQGNDAFNTSMLLASDREKLNLANEKYQLILFAY
 FNAPAFKTTQGITHLVLK"

ORIGIN

```

1  ggaaagaacc tttgattcat ataaaaagta tatatcaca tatattggcg ataacttggt
61  ggaatatagt caagaaaag cttccttggt ttctttacat tatcatggca gatttaataa
121 tatcaaagat aatattcgag attctattat caaaaattcg agattcctat tgtggttttt
181 aatacgatac aaaactaacc caaaaaactt tattccattt cttattaggg cttgcatga
241 agccgatatt tatctatcta atccaaatat taataaaata agtcttattt ttgatgtggt
301 ttcttactta aatatcaaaa gggaaataat taaatataga atacataaaa tcaatacaaa
361 tagaacaagc tccaaacaag ttcataaaca agatacacta tataatttag cactttggta
421 tgaaacgat ttagatttta taccttatca agattatatt atcgatttaa aaaaattcaa
481 aacttaaac caatttcaca acttaccaaa aagccataa atgatattgt tgcaaccctt
541 aagcctcatt tagattacct aacaccctc actcaaaaaa attttagctt agataatatt
601 tattgtattg ctaattattg tgagaattta ggtactaata aattggataa tgttgcttg
661 ctaataaga cttaagaca aaagtttgaa aaactagaaa caatacacc ccataatatt
721 cttatactct atccaaacc tactccatct attatacaaa tagaacaacc taaaatact
781 tttattattt tactttatag gagcaaaagc aaaaatagat tgcactaat tgatagaaga
841 tcaatgtgag ctaatgtatt taaaatatga tccaacacaa gaagaacaac aagcaattaa
  
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901 tccacaagct ttttcttgta gcacccaaga agaacttatt ttaaaaaaag aagatgaaat
961 atacttttaa gcagtaaaaa acaatatatc atattttatt aataaaaaacg atggaatfff
1021 aaaagttgct cttactggca atgaagaaaa tgctatagaa ttatacagtt ttgctaaaga
1081 aatcaatfff aaaatfffgc aagataaagc ctcaaagatg ctaaaaatct atttaaaact
1141 agaaaggtat agtagcaaag agatfffatc gcatagaggg gaaatfffga attaacactt
1201 aataatcfta agatfffaga tgaaaatgga aataatcatg aaaccatcac taaaatattt
1261 cttcataatt gtgagaacag aaggatfffat gaaagfffaa agtttagagta tcaagaaggc
1321 atttataaga gcagfffcaa gattgattta atffftagatg aaaactcftc tffffffataa
1381 agggctacia aatgtattat agctacaaaa gtcttaggag atffftagcac aagtcaaatg
1441 cataaaattg gaaatgtagc gatagtctct ttaagfffctg cagataagaa aggtggaagc
1501 tatacftfta caaataaagt aagtatgcaa gatfffggag aaaatcftta tftagatact
1561 gaggcaaatg gatatgaaaa acaataaaaa aattcaagaa agaatftata tatcacaaat
1621 ttgaaagcft ataaagaaaa ggaacagcaa aatattaccg ataaaaatccc ttacaataaa
1681 actatfffctg ttagagcfta cftaaataat gaggagaaat tfffcttcga tgaggcaatt
1741 aatgggcat attgtataaa aaaagaagtg gaattggaag gcaatcaacc taaaattaat
1801 atffftagaaa atcftcaagg aatgatata gcctftaata cftctatgct tftagcaagt
1861 gatagggaaa agcftaatct tgcaaatgaa aatatcaat taatfffatt tgcctatfff
1921 aacgcacctg catttaaac aacacaagga ataacgcatt tagtgftaaa atgactaaag
1981 atttaaacta tgcgaaaaaa gccattgaac ttaccctctc aatataaaaa gataaagaac
2041 aaatftatfff aaaagcccaa aaggattatg atgaattagt ccagcataat ttcactcaaa
2101 gaatfffata tgataaagat tctagggtag at

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//

LOCUS DMACINML_27 2132 bp DNA linear 16-DEC-2020

DEFINITION *Campylobacter* species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE *Campylobacter* species

ORGANISM *Campylobacter* species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..2132

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene 122..1123

/locus_tag="DMACINML_01829"

CDS 122..1123

/locus_tag="DMACINML_01829"

/inference="ab initio prediction:Prodigal:2.6"

/inference="similar to AA sequence:RefSeq:APA51640.1"

/codon_start=1

/transl_table=11

/product="mobilization protein"

/protein_id="Prokka:DMACINML_01829"

/translation="MNDLKNLSKHFQEKYGFQCYQIAIHRDEGHFNEQGEKLIHHAH

MEFITLDKETGKNFRREKISPKVLRRIQTEIAEILGMERGEDKRISGAKRIEPRAYA

ALKEKEKREKRNINLEQEKEQFLNKSEYKKIENFRKSQINQGLDKDFKELSEL

KKNFQEIKEDNLSELLNDILREHLERIEKLLKENSILKAENELLKQKEQKNDKSIDQE

QKNASERNFEPKNDNNTEDKKIFFEKLATYRLNEGLSKIYSKPLKRIVEPETEAKKKE

RIKILTETMEKTEAYLPETLKKWLENNKDIDLKEILVAYQNTLSKELKQSKSIYKGR"

ORIGIN

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1 aaataagata gtttcggaag cgaaagaagc ctatgaaaaa aataaaagcc ccaaagctcc
61 aaaatntaaa gctaagagct atgaatggag cttagttgtc aatatcaagc ctgatacctc
121 aatgaatgat ttaaaaaacc tttctaaca ttttcaagaa aaatacggct ttcagtgcta
181 tcaaactgct atacaccgcg atgaagggca ttttaacgag caaggcgaaa agcttataaa
241 ccaccacgca catatggaat ttatcactct tgacaaagaa acaggtaaaa acaactttag
301 gcgtgaaaaa ataagcccaa aagtcttaag agaaattcaa accgaaatcg ctgaaatcct
361 aggaatggag cgtggcgaag ataagagaat aagcggagca aaacgcatag agcctagagc
421 ttatgcagcc ttaaaagaaa aggaaaaaag ggagaaaaag cgaaacatta atttagagca
481 agagcaagaa aaagagcaat ttttaaataa aagcagatga aaaaaaatca ttgaaaatnt
541 tagaaaaagt caaatatc aagggcttga caaagattc ttcaaagagt taagcgaact
601 aaaaaagaac tttcaagaga ttaaagaaga caatntatca gagctntntaa acgatatntt
661 aagagagcat ttagaacgca ttgaaaagtt aaaaaagag aatagcattt taaaagccga
721 aatgagcctt ttaaagcaaa aagagcaaaa aaacgataaa agtatcgacc aagagcaaaa
781 aaacgcttca gaacgcaatt tcgagccgaa aaacgataat aatacagaag ataaaaaaat
841 atntttcgaa aaattagcca cttacagact gaatgaagga ttaagtaaga tnttattcaa
901 gccccntaaa agaattgtgg agcctgaaac cgaagccaaa aagaaagaaa gaatntaaaat
961 tnttaacagaa acaatggaaa aaacagaagc ttacctacct gaaactntaa aaaaatggct
1021 tgaaaaataa aaagatattg atntaaaaga aatacttgtc gcttatcaaa atacccttag
1081 caaagaatta aaacagagca agagtatnta caaaggcaga taaacactnt ctctccctnt
1141 ttagccttagc aaatcgacc tntggtgcta tgatntgca taatcgggggt gcggggggcgt
1201 gaagttagcc tagagctaac gaacggacaa gccaccgcc taatgtatat catcaaaact
1261 tnttttgntt tctctctcgc gcgcgtacgc gtacgcgatt tnttttatnt tnttatatnt
1321 tnttatatnt ttagggggct tnttaagccc tatataatgg gggctagcga aatattaagg
1381 gtagaaatct aaactattaa gggtagaaat ctaaactatnt aagggtagaa atctaaacta
1441 ttaagggtag aaatctaaac tattaagggg acaaaatnt actattaagg gtagaaatat
1501 attgacaacc tatccttaat atgctacaat aaaaaatccg ccttgagntt tcaactntgg
1561 cggaaatnta tcaatcaagg ctaactatga aacgacatag taagcgtntt gtgagattat
1621 acctaaatnt taggntntnt aagctntaaag ttgaagtatnt tntctaacaa aaccgcaggg
1681 gtagagaagc cccttgccnt gattgtccta cnttgatag gcaaatgagc gatatagnta
1741 aataccataa tgatntntaa aaaatntcagt tgcctagntt tacagaaatc gaacaagatt
1801 tattgtgtgg tntaatggta aaactntaaag aagaaaaagg caaagtaaca tnttatcctt
1861 gggactntag aaacatntct aaaagtagnt atgataataa tagtctaatg gaatntgcgt
1921 cntctctaaa aaggaaatnt ttcaaagctg actnttacaat aatntgaaaaa acaactaggg
1981 gtgaaaaaga agttgaagca cacaaaacaa taaacctntt tacagaatnt gcaatnttatg
2041 tnttatgcaag ctcaaaagat ttagagagta tagaaataga agntaatccg caatntgaaat
2101 atatntntaaa tcaactaacc gctaatntnta ca

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LOCUS      DMACINML_28                2116 bp    DNA        linear      16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source    1..2116
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene      50..126
            /locus_tag="DMACINML_01830"

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tRNA 50..126
 /locus_tag="DMACINML_01830"
 /product="tRNA-Ile"
 /inference="COORDINATES: profile:Aragorn:1.2"
 /note="tRNA-Ile(gat)"

gene 440..1039
 /gene="rhtC"
 /locus_tag="DMACINML_01831"

CDS 440..1039
 /gene="rhtC"
 /locus_tag="DMACINML_01831"
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 /inference="similar to AA sequence:RefSeq:ABS43249.1"
 /codon_start=1
 /transl_table=11
 /product="threonine efflux protein"
 /protein_id="Prokka:DMACINML_01831"
 /translation="MTFLFIFGIHLSALLTPGPDFLVSAYALKFSFKEALKAAFGVS
 LAILLWIIIFSLTGLKILFDTFPIQLVLSTLGAMYLFYLAYLLLKNISNEIHFTNSVK
 ISQPFLGGFLTNTNAKAIIFYFGSIFSSLNFTGDNFEIFLLVIIILGLES LIYFIFIAF
 LFSNLKIKMLYLNHHKKIDLFCAFIFISFACFTLATIYF"

gene 1048..1308
 /locus_tag="DMACINML_01832"

CDS 1048..1308
 /locus_tag="DMACINML_01832"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:SQE23465.1"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_01832"
 /translation="MLIQIKEINQQNITDILYGKPCFYSLGCFIFDEKIINYWKQNILK
 EKLGHYHNAPLIAKIGMAYYETINNEKLKKNILKMRNIGMIY"

gene 1434..1829
 /locus_tag="DMACINML_01833"

CDS 1434..1829
 /locus_tag="DMACINML_01833"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:SQE23465.1"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:DMACINML_01833"
 /translation="MLTENSSIEPHQDIFKRDDEITWNDNGQIKEQIAFNFFLDNAED
 GGEMELWNWKPNDDEYRKFQHTNIKLNLYGLDRSKISLPYTTYKPKLGEIVLFNPRYVH
 AVKKANKGIRLTISCFLSVNKNEELVVWS"

ORIGIN

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1 gcacgcagga ggtcagcggt tcgatccgc tattctccac cattattaag ggcctatagc
61 tcagctggtt agagtgcacc cctgataagg gtgaggtcac aagttcaagt cttgtaggc
121 ccaccattag aatcagattt ggaatgatat taatttattt atatttctac ttgccttaat
181 taccctatat aaatcagtat tttattttta ttagtaaggt tttattaata ttttgaatta
241 atattgattg tgttatatta aatcatataa aatgttttta ataaggtgct aataaatgaa
301 tttttaatta aataaagatt attaacattt tgtagcattt tgcaatatta ttttctatat
361 ttgattgttt atatttttgt tttttataat tttttgagaa atttgcgata aaatcacaaa
  
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421 aactacaaat ggaattctga tgactttttt atttatTTTT ggtattcatt tatctgcact
481 cttgacacca ggacctgatt tttttctcgt tagtgcttat gctttaaaat ttagttttaa
541 agaagcctta aaagcagcat ttgggtgtaag tttggcaata ttgctttgga ttatTTTTtc
601 ttttaactgga cttaaaattc tttttgatac ttttcctttt atccaacttg tattatctac
661 tttaggagcc atgtatctgt tttatcttgc ttatTTtgctt ttgaaaaata tttccaatga
721 aatacacttt acaaatagtg taaaaatttc acaaccgttt ttaggcgggtt ttttgacaaa
781 tattacaaat gctaaagcta ttttttattt tggaagtatt ttttctagct taaattttac
841 aggagataat tttgaaatct ttttactagt tattatcctc ggTTTTagaat ctttaattta
901 ttttattttt attgcttttt ttttttcaa tttaaaaatt aaaatgttat atctaaatca
961 tcataaaaaag attgatttgt tttgcgcttt tttttttata agTTTTgctt gttttacact
1021 tgcaacaatt tttttttagg agcataaatg ttgatacaaa taaaagaaat taatcagcaa
1081 aatattactg atattttata tggaaaacct tgTTTTtatt ctttaggttg tatatttgat
1141 gaaaaaatta ttaactattg gaaacaaaat atacctaaag aaaaattggg gcattatcat
1201 aatgcaccac tcattgcaaa gataggtagt gcttattatg aaactattaa taatgaaaag
1261 ttaaaaaaga atattttgaa aatgcgaaat attggaatga tatattaaga aatgcttggt
1321 ttccttataat ttcaccaatt gattatatta tttctttatt tgatattatt tggaaataag
1381 gttgcaagag agcggTTTT aataatcgaa aaacatttgc agggctagta agagtgttaa
1441 ctgaaaattc atcaattgag ccacatcaag atatttttaa aagagatgat gaaatcactt
1501 ggaatgacaa tggTcaaatt aaggagcaaa tagcatttaa tttcttctta gataatgctg
1561 aagatggtgg agaaatggaa ctatggaatt ggaagccaaa cgatgatgaa tatagaaaat
1621 ttcagcatac taatattaaa ttgaattacg gattagatag aagtaaaatt tctttacctt
1681 atactacata caaacctaaa ctcggcgaaa tagtattggt taatcctaga tatgttcatg
1741 ctgtaaaaaa agcaaaaaa ggtataaggc ttaccatatt ttgttttctt agtgtaataa
1801 aaaatgagga gcttgtagtt tggagttgag aaatcgccaa aatattttaca aggaaaagtt
1861 taataagttg cacaattcaa gtttgcTcaa tttttgttt taatttaata tatttaataa
1921 aatttttaaga ttaattttgt ataatttcga ctttaacttc ttagaaaatt aaaagtcggt
1981 aaaaatattt tttaaaccta aatgttcttt ataattatca ttgttaagag tcacaagcaa
2041 gttttaataa aaacaatttt acaggacttg ttaaaggata aaaccaatt atcttttctt
2101 tggTTTTact tatatc

```

//

```

LOCUS      DMACINML_29          1946 bp    DNA        linear      16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1946
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     complement(120..437)
            /locus_tag="DMACINML_01834"
  CDS     complement(120..437)
            /locus_tag="DMACINML_01834"
            /inference="ab initio prediction:Prodigal:2.6"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"
            /protein_id="Prokka:DMACINML_01834"

```

```

/translacion="MKNSKGENIVKPKNTNTAYACAIQARFEQNKIVKIEPKYCISLI
NTCFDSKEITLDNDISRVGLNDALSKRTIDFVNRFKLLKHQPNTTNCMLKKQRKLRGV
NKC"
gene      complement(659..1261)
          /locus_tag="DMACINML_01835"
CDS       complement(659..1261)
          /locus_tag="DMACINML_01835"
          /inference="ab initio prediction:Prodigal:2.6"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="Prokka:DMACINML_01835"
          /translation="MLEFFVLLIFILIFFFVFIFSIILYFIFKIFYKLNKTKTIN
FKTIFKKFTLFLPVYLLLFLVGGCSYKYMDPQYYEFRSLCKDIDNKVIIYNKAYWEI
FSNREKGNMTHDEKGEFFFNQKINKKIYFDFKSESINVLQKNKFTLTEVTFEDCYDG
IHSTHLSYIYNDYGIFLGGDEGAGFYFRYHKRLYCEDVR"
gene      complement(1265..1711)
          /locus_tag="DMACINML_01836"
CDS       complement(1265..1711)
          /locus_tag="DMACINML_01836"
          /inference="ab initio prediction:Prodigal:2.6"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="Prokka:DMACINML_01836"
          /translation="MSKNIKTQEAKLDLIAKFLDYANVADASYAMLHWIDYVKKENDK
KHENGDTQKLGDKHNNQNSTYARAIQARFEQNKIVKIEPKYCISLINTCFDSKEITLD
NDISRVGLNDALSKRTIDFVNRFKLLKHQPNTTNCMLKKTDKIKRS"

```

ORIGIN

```

1 agtttttggt ttatTTTTTTA ttttaaaaa gactttaaag ataaaatata aaataataga
61 aaatataaaa acaaaaaaga aaaatataag aataaatatt aaaagattaa caaagaattc
121 tagcatttat taactcctct taatTTTTCTC tgtTTTTTCA taagacaatt tgtagtgttg
181 ggctgatggt ttaaaagttt aaatctatTTT acaaaatcaa tagttctttt actcagtgca
241 tcatttaatc ctaccctact aatatcatta tccaatgtta tttctttact atcaaaaaca
301 gtatttataa gagaaataca atatttaggt tctatTTTTAA ctatTTTTATT ttgttcaaaa
361 cgagcttgta tagcacaagc ataagctgtg tttgtatTTT taggttttac aatatTTTCC
421 ctttactat ttttcataac aatatcttgc tttatTTTAT caccaaaagt ataaatatta
481 ttcttttcat cttgctctat atTTTTCCA acatattaca acatcgcata actagcatct
541 gcacaattag catagtctaa aaatttagtg attaatctca atttagcttc ttgtgtttta
601 atgtttttac tcatttgta ttctaaaaat ctaaactca aattatcttt ctaatTTTTT
661 atctaacatc ttcacaatac agtcttttat gatatctaaa atagaatcca gcaccctcat
721 cacctcccaa aaatatacca taatcattat aaatataaga taagtgtgtt gaataatgaa
781 taccatcata acaatcttca aatgtaactt ctgttaaagt aaatttattt ttttgcaaca
841 cattaatgct ttctgatttt ttaaaatcaa aatatatttt tttatttatt ttttgattaa
901 aaaagaattc tcctTTTTCA tcatgcattg tatttccttt ttctctattg ctaaataattt
961 cccaataagc tttattgtaa attattactt tattatctat atctttacac aaactcctaa
1021 actcataata ctgCGGATCC atatatTTTat aagaacatcc tcctactaag aataataaaa
1081 gatatacagg taaaagaaac aaagtaaatt ttttaaatat tgttttaaaa tttatagttt
1141 ttgttttatt ttttaattta taaaaaattt taaagataaa atataaaata atagaaaata
1201 taaaaacaaa aaagaaaaat ataagaataa atattaaaag attaacaaag aattctagca
1261 tttattaact cctcttaatt ttatctgttt ttttcataag acaatttgta gtgttgggct
1321 gatgttttaa aagtttaaat ctatttaca aatcaatagt tcttttactc agtgcacat
1381 ttaatcctac cctactaata tcattatcca atgttatttc tttactatca aaacaagtat
1441 ttataagaga aatacaatat ttaggttcta ttttaactat tttatTTTTgt tcaaaacgag

```

```
1501 cttgtatagc tcttgcataa gtagaatttt gattattgtg tttatcgcct agtttttggg
1561 tatcaccatt ttcatgtttt ttgtcatttt ctttttttac ataatcaatc caatgcaaca
1621 tcgcataact agcatcagct acattagcat agtctaagaa ttttagcaatt aagtctaatt
1681 tagcttcttg tgttttaatg tttttgctca ttttatattt ctatcttaag ctcattatgc
1741 ttttaaattt tttatccaac atctccacaa tctaataattt cctcatattc aaaatgaaac
1801 ccagcacctt catcgccttc taaaaatata ctataattat aatacaataa tcgttttaat
1861 tcttgatact taatgttatt tttatcatca atataccaag cttctatttc tttttctttt
1921 acttttccta ttccaagttt aatttc
```

//

LOCUS DMACINML_30 1741 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..1741
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(1357..1692)
/locus_tag="DMACINML_01837"
CDS complement(1357..1692)
/locus_tag="DMACINML_01837"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:EAQ72691.1"
/codon_start=1
/transl_table=11
/product="flagellin B"
/protein_id="Prokka:DMACINML_01837"
/translation="MKATALGSTDKTAGVTTLKGAMAVMDVAETAITNLDITRADLGS
IQNQISATINNITVTQVNVKSAESTIRDVDFASESANYSKANILAQSGSYALAQANAS
QQNVLRLLLQ"

ORIGIN

```
1 gaactgatag aagaataatc cgctaagaat cttccgccac cttcatagtt gttaaatccc
61 atagcatcag caatttgagc tgaaatttgt cccttagttt ctcttaaaga tactgaagat
121 tgagaaatta tttgacctgt tccaaaacct actgctgaaa gtccagttcc tgaaatcgtt
181 atatctctac catcgttttt aacaagagaa agacggccat aattttctgc ttgttctgct
241 aaaataccca tacttggagt aaagccactg actttaatac ctctaccctc tcttgaagta
301 agaaccaatc ttccatcatc actcaaagaa gcctcaacc cagtagtatc ttttacagca
361 ttgatagaag ctatcaaaga tccgttttta tcacctgttt caaattctat tttaccaatt
421 cttaccccat tgattgtaaa atcatccgca gtacttcctt ttgtaatggc cattgcacca
481 acagtttgca cattaaaact agctctaacg cctgttttat cagcatattt attgatctct
541 tcagccaaag ctccaagtcc tgttcctact gaagtagaaa taacaacgct ttgaaatgta
601 aagtcttcta taccattata gtttttaata gtaatttgcg cagtaccact gtctgaaatc
661 tgcgatcccg tttcaaatct tgttacaccg attttagaag actgagtcgc tccgatggta
721 gctttgatgg tttgatttga ctgtgcaccg atttggaatt cttgattgac aaagctacca
781 cttaaaagt gtttaccgtt aaatgaagt gtatttgcga tattgtcaag ttcttccatc
841 aaacgattga tatctgcttg aagcatagtt cttgttttta aactttgtcc atcttgagct
901 gcttgagtcg ctttagtctt gatagtatct aagattttaa gttgctcatc catagcctta
```

```

961 tctgcagttt gtaaaatacc tatggcatca ttaccattgt ttatagcttg acctaaagta
1021 gaagcttgtg aacgcaaaga atctgctatc gccatccctg aagcatcatc tgctgcagag
1081 ttaattctaa gacctgaact cagtctacc aaagacttat caagcgcatc agcattaaca
1141 actgaatttg catgtgcggt taacgcaccg atgttggtgt ttattctaaa acccatttta
1201 aatcctttca aaatattgca tcaaaaggac taaagcaaga agtgttccaa gttttgtttg
1261 tgatttgatt tttaaataaa aaagctcggg atttctaccg agcttggatt tgtataaatt
1321 gcagcatcct taaaaaggat gagatgggtt aagttactat tgaagcaatc ttaaaacatt
1381 ttgttgagaa gcattagctt gagctaaagc ataagatcca ctttgagcta ggatatttgc
1441 tttagagtag tttgcactct cactagcaaa gtctacatct ctgatggttg attcagctga
1501 tttaacattt acttgagtta cagtaatggt gttgatagtt gctgaaattt ggttttgtat
1561 agaaccaaga tctgctctaa tggatcaag attagtgata gcagtttcag ctacatccat
1621 cacagccata gcacctttta gagttgtaac ccctgcagtt ttatccgttg aacctagcgc
1681 agtagctttc atttgagcaa attgagattg tcctgatcca gcagaaaaac cactgccttc
1741 a

```

//

LOCUS DMACINML_31 1671 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1671

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(465..1109)

/locus_tag="DMACINML_01838"

CDS

complement(465..1109)

/locus_tag="DMACINML_01838"

/inference="ab initio prediction:Prodigal:2.6"

/inference="similar to AA sequence:RefSeq:CKG87616.1"

/note="Domain of uncharacterised function (DUF1910)"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:DMACINML_01838"

/translation="MVRDTSKDEAYFTKEIIESEEDIKESKILLELFPGQRETCLFC

IEDRKFHFLAMDKYSRGDDIDIVKKDLEAYILEKEKNRLEKGLDISWFDGNALELCVRV

LLDMDTACVLELIEEDERKRRDILNRDWFHFIFGSKGKNLNLERKCKIRKEHELIKEFV

ATKDIEFLHQYMKKHTRLRDLDTWDLEGAIVKLMNLDKEEFKSYKYPYDLI"

gene

complement(1113..1493)

/locus_tag="DMACINML_01839"

CDS

complement(1113..1493)

/locus_tag="DMACINML_01839"

/inference="ab initio prediction:Prodigal:2.6"

/inference="similar to AA sequence:RefSeq:CKG87598.1"

/codon_start=1

/transl_table=11

/product="methyltransferase small"

/protein_id="Prokka:DMACINML_01839"
/translation="MQMDKYKAKGYKRISLNKVKGLDDKIHHEMDGIYYNPKDKPKY
IIAEAKFGTSKLDKTKQMSDEWLIKNLKQLKDNVGEKQAKEIKLLNSNEVRKDLF
HVDEGGKETIDYLDKANKIKPKG"

ORIGIN

```
1 tccacctaatt tctaaacgat ttttttgtct taatagcata agtgcttcta aatctttttt
61 aactagattt atatcatcac cacgagagta tttatccata gcaatacatt tttttctatc
121 tgttatagaa aaaaaataat tttcccttct tgcatctcct agtggaagtt ctaagagtct
181 tttttcatct tctttgattt ttttttcaca ctctattata tgtttcgtaa aatcagcttc
241 atctctctta gtatctctta gcatttttta tcctttttat taagtttttg gtttttgcatt
301 ttttatctaa ttctttaata ctacattgc cttttttatc aacatgaaat aaatcttttc
361 tgacttcatt gctatttttt ttaagaagat ttgctatttt ttctctatct tttttatcta
421 caataccaag tctattttcta ctctcttctg ttatccaaat aagattaaat taaatcataa
481 ggaaaatatt tatagctttt aaattcttct ttatctaaat tcattagttt tacaattgct
541 gcaccttcaa gatcccaagt atctagagga tctcttaatc ttgtatgttt tttcatatat
601 tgatgtaaaa actcaatc ctttagtagct acaaattctt taataagctc gtgttctttg
661 cgaatacatt tgcgttctaa atttaagttt ttacccttag atcctataaa atgtaaaaac
721 caatctctat tgagaatc tcttcttttt ctctcatctt cttctattaa ttctaataca
781 caagcagtat ccatatctag taatactcta acacaaagtt caagagcatt tccatcaaac
841 cagctaatat ccaatccttt ttctaaacga tttttttctt tttctagtat gtatgcttct
901 aaatcttttt taactatgct tatatcatca ccacgagagt atttatccat agcaagatga
961 aattttctat cttctataca aaaaagacaa gtttctcttt gtccaaaagg aagctctaaa
1021 agtatttttt cggattcttt gatattcttct tcacttttcta ttatctcttt agtaaaatac
1081 gcttcatctt tactagtatc cttaccatt ttctatcctt tgggttttat tttatttgca
1141 tctttatcta aataatcaat agtttcttta cctccttcat caacatgaaa taaatctttt
1201 ctgacttcat tgctattaag aagttttttt atttcttttg cctgtttttc tcctacatta
1261 tctttaagct gttttagttt attctttatt aaccattcat cactcatttg cttagttttt
1321 ctatctaatt tgcttggtcc aaacttagct tctgcgatga tatatttttg gtttttatct
1381 ggattataat aaattccatc catttcatga tgaattttat catcaagccc tttgacttta
1441 tttaaactaa ttcttttata gccttttagct ttgtaaatatt tatccatttg catttcagca
1501 taattacctt tttgctgatt attttttggg tttttaaacc cactataaga ttaaattaaa
1561 tcataaggaa aatatttata gcttttaaat tcttctttat ctaaattcat tagttttaca
1621 attgctgcac cttcaagatc ccaagtatct agaggatctc ttaatcttgt a
```

//

LOCUS DMACINML_32 1526 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1526

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(92..1366)

/locus_tag="DMACINML_01840"

CDS

complement(92..1366)

/locus_tag="DMACINML_01840"

/inference="ab initio prediction:Prodigal:2.6"

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/inference="similar to AA sequence:RefSeq:ALW35763.1"  
/codon_start=1  
/transl_table=11  
/product="mobilization protein"  
/protein_id="Prokka:DMACINML_01840"  
/translation="MPKVAASHCNPCKQPALNHNDRTNDNAKTITKELTHLNEYSCTS  
DEVKRNIEKLYKKAYENFYKYCENKNGLAKSGKPKGLQNFTKKEKCYHEFIYEIGENT  
TMEQCQELTQKIAELTGFTPLQVVIHRDEVSENAKGEKQTHYHAHAVFFTLDNNGLQL  
ARREASLNKGNLSKIQTLTAESLKMERGANNRYENNEKQPQYIQDYKIYAQFKEQEKAL  
LQRIQEQEHQLAQMALELKEKEKEIQDKAKELKSKENELQAKIEQYQKHIQTLELGH  
KALKELTQEFENRLSLWKNILTFGKHNAKVREDYQLTKKAFLVSTDESRRANKELEY  
LKFEYRKVRDDRDNLRTL FETQKKNDLETRIKEIGKWCEKNLSVEQLKEIFPLKAE  
RIEKELKYQRAFENSFEQVTKRNRDRLGLSR"
```

ORIGIN

```
1 tccgtgctac gcactcagac agccccgca ccccgattat cgcaaatcat agcacctttg  
61 gtgcgatttg ctaaagcacc aaaaaagaaa attatctact aagccctaac cctctatcgt  
121 ttcttttagt ttttacttgt tcaaaagaat tttcaaaagc tctttgatata ttaagttcct  
181 tttctattct ttcagctttt aatggaaata tttcttttaa ttgctccacg ctcaaatttt  
241 tttcgcacca cttgcctatt tcttttatcc gagtttctaa atcatcattt ttcttttttt  
301 gtggttcaaa caaagtcttt aaattatctc tatcatctct gactttacga tattcaaatt  
361 ttaaataattc aagctcttta ttagcttctc tcctgctttc atctgtgctt actaaaaaag  
421 ctttttttagt aagctgatag tcttctctta ctttagcatt gtgttttcca aaagttagaa  
481 tatttttcca taggcttagg cgattttcaa attccttgcgt aagttccttt aaggcttttt  
541 catgtcctag ctctaaagtt tgtatatggt tttgatattg ctctattttt gcttgcaatt  
601 cgttttcttt cgatttttagc tcttttagcct tgtcttgtat ctctttttct ttttctttca  
661 attctagagc catctgtgct aattgggtgtt cttgttcttg tattctttga agtaatgctt  
721 tttcttggtc tttaaattga gcataaattt tataatcttg tatatattgg ggttgctttt  
781 cgttattctc atagcgatta gctccacgct ccatTTTTaa actttctgca gttaggggtt  
841 gaattttgct aagattgcct ttattcaaac ttgcttcacg cctagcaagc tgtaagccat  
901 tgttatcgag tgtaaaaaat accgcgtggg cgtgataatg ggtttgtttt tcccctttag  
961 cattctcgct tacttcatct ctatggatta caacttgtaa aggtgtaa at cctgtaagct  
1021 ctgcaatttt ttgctgtaagc tcttgacatt gttccattgt agtatttttcg ccgatttcgt  
1081 atataaactc gtgatagcat ttttcttttt tagtaaaatt ttgaagtcct ttaggctttc  
1141 cgcttttagc taaaccattc ttattttcac aatatttata aaaattttca taagcttttt  
1201 tataaagctt ttctatgttc ttacgcactt catcgctagt gcaagaatat tcattttaa  
1261 gcgtgagttc tttggtgatg gtttttagcat tatcgttagt tctatcattg tgatttaacg  
1321 cgggttggtt tttaggattg caatgagagg cagcaacttt tggcattttt aaattctcct  
1381 tttggtggtt aaaaatgact aggcaaaaat caaaaaatct tttattgatt ttaattgatt  
1441 tttgctaggg agttaagggg ttttaaccct tacaagctcg atacttggca caagtggcgg  
1501 atagcttgta tccttcaata atataa
```

//

```
LOCUS DMACINML_33 1369 bp DNA linear 16-DEC-2020  
DEFINITION Campylobacter species strain strain.  
ACCESSION  
VERSION  
KEYWORDS .  
SOURCE Campylobacter species  
ORGANISM Campylobacter species  
Unclassified.  
COMMENT Annotated using prokka 1.13 from  
https://github.com/tseemann/prokka.  
FEATURES Location/Qualifiers  
source 1..1369  
/organism="Campylobacter species"
```

```

        /mol_type="genomic DNA"
        /strain="strain"
gene     31..810
        /locus_tag="DMACINML_01841"
CDS     31..810
        /locus_tag="DMACINML_01841"
        /inference="ab initio prediction:Prodigal:2.6"
        /inference="similar to AA sequence:RefSeq:CKG88098.1"
        /note="Uncharacterized protein conserved in bacteria%2C
putative lipoprotein"
        /codon_start=1
        /transl_table=11
        /product="hypothetical protein"
        /protein_id="Prokka:DMACINML_01841"
        /translation="MLAISANAQSPKEAKPSFDCAKATTKVEKIICNDKSGELQKLDL
LYSKLYFSILKSIPKNTKEGQETKKQMOKFAKNFIDYRDNMRCFLAKNDDEKEVEEV
FNKGRENGIMYENLDSVHFGFKPHHYKPCIVRVYKMGILLSTNTIIDTSFLIDKDTF
YTCKSNMILDIFSILKGLAKFRFYKLPQGYKETIIEASKALQELSSNGRYTQVCAFE
DEGFICTNGGCEFDLDEMQRVLIQPLDNFIQNIIDFRKLNAN"

```

ORIGIN

```

1 aagtttttaa tagttttagg atttgtgttta atgtttagcca ttagtgctaa tgcacaatcc
61 ccaaaagaag ctaaacctag ctttgattgt gctaaggcaa ctacaaaagt tgaaaagata
121 atatgtaatg ataaaagtgg ggaattacaa aaacttgata gattgtattc taaactctat
181 ttttcaatac taaagagtat cccaaaaaac acaaaagagg ggcaagagac aaaaaacaa
241 atgcaaaaat ttgctaaaaa ttttatagat tatagagaca atatgctgtg ttttttattg
301 gcaaaaaatg atgatgaaaa agaagtggaa gaagtattta acaaaggacg cgaaaatgga
361 ataatgtatg aaaatcttga ctcggttcat tttggtttta aaccacatca ttacaagcct
421 tgtatagcaa gagtttataa aatgggaatt ttattgctta gcaccaatac tatcatagat
481 acaagttttc tcatagacaa agatactttt tatacttgca agagcaatat gatactcgat
541 attttttcta ttaaaggttt agcaaagttt agattttaca ataaattggt tccacaagga
601 tataaagaaa ccattataga agcctccaaa gcattacagg aattaagctc aaatggctgc
661 tataactcaag tatgtgctgt tgaagatgag ggatttatat gcacaaatgg aggggtgtgag
721 tttgatttag atgaaatgca aactagagtt attcagccac ttgataatth tattcaaaat
781 atagatttta ggaaactaaa tgccaattaa gacaacaaat ttaagctatg aggaatttaa
841 aagcttacia ataaataaaa ttaatttcta tttaaaggag gtgttcttat gcaaaagtth
901 ttaatagctt taggattgtg tttaatgtta gccattagtg ctaatgcaca atctctaaaa
961 gaagctaaac ctagctttga ttgtgctaaa gcaagtacia aagtagaaaa gatgatttgt
1021 aatgataaaa gtggggagtt acaaaaactt gatagatata tggcaaagac atataaagaa
1081 ctaagacaga atctaaacia aatgagcaa aataagctth taacatcgca acgattatgg
1141 cttcaaacc taatcaatg caaatctaaa gaatgtgtaa aagagcttht gcaaaataga
1201 gttggagaat tgcaaaatta cacagcacac acgggcaatg tgtggcttgg gacttataca
1261 ttacaagaaa atctttatat ggggagctth acaataaaaa agtgtgataa gtttaattat
1321 tgtgaagcta gatatgaggc tatcctaaat aaaagtgaat ttaatgata

```

//

```

LOCUS      DMACINML_34          1070 bp    DNA        linear      16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
ORGANISM   Campylobacter species
           Unclassified.
COMMENT    Annotated using prokka 1.13 from
           https://github.com/tseemann/prokka.

```

```

FEATURES             Location/Qualifiers
    source            1..1070
                     /organism="Campylobacter species"
                     /mol_type="genomic DNA"
                     /strain="strain"
    gene              197..577
                     /locus_tag="DMACINML_01842"
    CDS                197..577
                     /locus_tag="DMACINML_01842"
                     /inference="ab initio prediction:Prodigal:2.6"
                     /inference="similar to AA sequence:RefSeq:ABS43317.1"
                     /codon_start=1
                     /transl_table=11
                     /product="repeat motif-containing gene"
                     /protein_id="Prokka:DMACINML_01842"
                     /translation="MQGNIVKDCYISEGVKALFAVYFKDQTEESFFKALNEFAKENQI
ASQKIRDKTSREIKEELSKLVTSDLLNAKFDKVETRIDKFETSLNAKLDSFRTEVKTY
VIILAVLMFILQPTIFDFIISIFK"
    gene              697..1011
                     /locus_tag="DMACINML_01843"
    CDS                697..1011
                     /locus_tag="DMACINML_01843"
                     /inference="ab initio prediction:Prodigal:2.6"
                     /inference="similar to AA sequence:RefSeq:CKG85792.1"
                     /codon_start=1
                     /transl_table=11
                     /product="hypothetical protein"
                     /protein_id="Prokka:DMACINML_01843"
                     /translation="MQKNIQDCVVNVHSYDPNSPSGYKQDLFDISSEDFVREYEFVDS
SDLDDMVKHKQSDEVFKVFYKDKGKIRLLRISNMQALNHFHDLKGVMTKIILDSGFKP
DE"

```

ORIGIN

```

1 actaattcct attatthttg aaggaaagat aggcaaagat gcaataaact tttaaagaga
61 aataggctgt catactttca aacataatag aatagcaaga atagtattag tggatatttg
121 cataataaaa aaatgaaatt tttaaagaat tgaataacta tatgcagtaa ttatgatata
181 atgaaagaga aatacaatgc aaggtaatat agtgaagat tgttatattt cagaagggtgt
241 aaaagcttta tttgctgttt attttaaaga tcaaactgag gaaagtttct ttaaagctct
301 taatgagttt gctaaagaaa atcaaatagc atctcaaaag ataagagata aaacctctag
361 agaaattaaa gaagagcttt caaaattagt aacttcagat cttttaaatg ctaaatttga
421 taaggttgaa actagaatcg ataagtttga aacctcattg aatgctaagc tagatagttt
481 tagaacggaa gttaaaacat atgtaattat tcttgctggt ttaatgttta ttttacagcc
541 tacaattttt gattttatta tatctattht taataattt tttaaagaag caaggatttt
601 tttccttgct tgctcaacct ttttttattt taatthtttt tacgaagaat ttcaacttct
661 aaaaataaaa atthgtatta ttttaaagga tttaacatgc aaaaaaatat acaagactgt
721 gtgggttaat ttcattctta tgatccaaat tcaccaagcg gttataagca agatttgttt
781 gatatttcaa gtgaagattt tgttagagaa tatgaatttg tagatagttc tgatttggtat
841 gatatggtaa aacacaaaca aagtgatgaa gtttttaaag tgttttataa aaaagatggg
901 aaaataagac ttcttagaat tagtaatatg caggctttaa atcattttga tcatcttaag
961 ggtgtaatga caaaaataat tttagatagt ggttttaagc ctgatgaata gaaaagatta
1021 atatgcgtaa agatcaagaa tatgcagaag aaaggtttta tgggcaaaaa

```

//

```

LOCUS       DMACINML_35                971 bp    DNA    linear    16-DEC-2020
DEFINITION  Campylobacter species strain strain.
ACCESSION

```

VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..971
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene 206..916
 /locus_tag="DMACINML_01844"
 CDS 206..916
 /locus_tag="DMACINML_01844"
 /inference="ab initio prediction:Prodigal:2.6"
 /inference="similar to AA sequence:RefSeq:EAQ72616.1"
 /codon_start=1
 /transl_table=11
 /product="methyl-accepting chemotaxis protein"
 /protein_id="Prokka:DMACINML_01844"
 /translation="MNAIHKIFEEYKSLDFRNKLDNASGNVEITTNALGDEIVKMLKQ
 SSDFANHLASESSKLSAVQNL TSSNSQAASLEETAAL EETSSMQNVSVKTS DVI
 TQSEEIKNVTGIIGDIADQINLLALNAAIEAARAGEHGRGFVVADEVKLAERTQKS
 LSEIEANTNLLVQSINDMAESIKEQTAGITQINESVAQIDQTTKDNVEIANESAIISN
 TVSDIANNILEDVKKKRF"

ORIGIN

```

1 catcaacgaa aacatccttg ctactaaaca aggtttagaa caagatgcta aagcagtaaa
61 agaaagtgtt gaaaccgtag gagtagtaga aagtggtaat cttactgcaa gaattacagc
121 taatcctaga aatccacaat taatagaact taaaaatggt cttaatagac ttttagatgt
181 tttacaaact aaagtaggat cagatatgaa tgctattcat aagatctttg aagaatataa
241 atcttttagac ttagaaata aacttgataa tgctagtggg aatgttgaaa tctactacaa
301 tgcttttaga gatgaaatcg ttaagatggt aaaacaaagt tctgactttg ctaatcactt
361 agccagtgaa agttctaaac ttcaaagtgc agttcaaac cttacttcat cttctaattc
421 tcaagcagct tctttggaag aaacagctgc tgcttttaga gagattactt cttctatgca
481 aaatgtttct gtaaaaacca gtgatgttat cactcaatct gaagagatta agaatgttac
541 aggtattatt ggagatattg cagatcaaat caatcttcta gcattaaatg ctgctattga
601 agctgcaaga gcaggagaac atggtagagg atttgcagtt gttgcagatg aagttagaaa
661 gctagctgaa agaactcaa agtctttatc tgaaatagaa gctaatacta atttattggg
721 tcaatctatc aatgatatgg cagaatctat taaagagcaa actgcaggta ttactcaaat
781 caatgagagt gtagctcaa ttgatcaaac tactaaggat aatgtagaga ttgctaataa
841 gtctgctatt atttctaata ctgtaagtga tatagctaat aatatacttg aagatgtgaa
901 aaagaaaagg ttttaattag agactgatat ataaaattta gattgatatg cgagtatcaa
961 tctaaagatt t

```

//

LOCUS DMACINML_36 851 bp DNA linear 16-DEC-2020
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..851
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene 37..363
/locus_tag="DMACINML_01845"

CDS 37..363
/locus_tag="DMACINML_01845"
/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:DMACINML_01845"
/translation="MGSFTIKKCDKFNICEARYEAILNKSEFNDMHECDITLKLQIKS
QQEAIALNDDKDFANCKIYIRKNQQGIVFIRDEKVFNSPDYFCSTMCGNQTI FEWGDI
YKKEMQ"

ORIGIN

```

1 tggcttggga cttatacatt acaagaaaat ctttatatgg ggagctttac aataaaaaag
61 tgtgataagt ttaatatattg tgaagctaga tatgaggcta tcctaaataa aagtgaattt
121 aatgatatgc acgaatgcga tataactttg aaattacaga taaaatctca acaagaagct
181 atagctttta atgatgataa ggattttgca aattgtaaaa tttatattag gaaaaatcaa
241 cagggtattg tatttataag agatgagaaa gtattttaatt cacccgatta tttttgtagc
301 acaatgtgtg gcaaccaaac gatatttgag tggggagata tctataaaaa ggaaatgcaa
361 taatgcttta tgatgttaaa aattaaatg aaaatgatta taaaaaagaa tgtgcaaagc
421 ttcttattgc ttttgaaaat tcaaattata aacaagaaaa tgctatacat attgcaggca
481 atgtaactat tggatatgga cttgatttaa agacaggaaa taatccaaag ttacttttag
541 aagggtattt accagatgat tctaaaaaac ttaaaatagg agatgaagaa ttaacttttt
601 atgaaattat agagaaatat agagccaata aggcaggttt tacagacca aagatagtaa
661 aaggttattt acaaaataaa gtgtttaatt tttcgcttac gcaagaacaa gcccaagaaa
721 ttttggaaag aacctttgat tcatataaaa agtatatatt acaatatatt ggcgataact
781 tgttgaata tagtcaagaa aaagcttctt tggtttcttt acattatcat ggcagattta
841 ataatatcaa a

```

//

LOCUS DMACINML_37 794 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..794
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene 36..503
/locus_tag="DMACINML_01846"

CDS 36..503

```

/locus_tag="DMACINML_01846"
/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:DMACINML_01846"
/translation="MIIWNMTFGWGWFPYSLQPSYHEFKEMCKLNELPNDEHKYNKI
LSYFGLSLDTLDWENIKKNSTLLTQGYLEYNSQNDRYMYRYENKSDPRIRKVFLLFFN
DSIKLSNLYKIDFEVFWNDKRDYIHTKVTSYDTVIEENFRTCGYFSGYLKGIK"

```

ORIGIN

```

1 ttctaaaaat atcaagtttt attctacttc ctttgatgat tatatggaat atgacatttg
61 gttgggggtg gtttgtgcct tatagcctac aaccgagtta tcacgaattt aaagagatgt
121 gtaagcctaa tgaacttcca aatgatgaac acaaatataa taagattcta agttattttg
181 gattaagttt ggatacattg gattgggaaa atattaataa aaattcaaca ttattaacac
241 aaggttattt agaatataat tcacaaaatg atagatatat gtatcgatat gaaaataaaa
301 gtgatccaag aataagaaaa gtttttttct ttttttttaa tgacagtata aagctaagca
361 atctttataa aatagatttt gaagtatttt ggaatgataa aagagattat attcatacaa
421 aagtaacttc ttatgatact gtaatagaag agaactttag aacttgtgga tatttttagt
481 gatacttgaa aggaatcaaa taatgcacca taaacagcaa atacaaaagt ttagagataa
541 cgcagaatta gcttgggcaa gttatgggta ttttgacttt atagacaagc aatatagctt
601 tgatgaaaag gataaaaatg aattttaaac tttatatgca aaaataaatg atatagatga
661 aagtaacgaa aaagtgcaaa atgccaaagc tacctacacc gacattctca atatggaata
721 taattcctta tttgatggcg acttctcccc actccaagct aaacaattct tttctcgcta
781 tgatttatta aaac

```

```

//
LOCUS          DMACINML_38                783 bp    DNA        linear        16-DEC-2020
DEFINITION     Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS       .
SOURCE         Campylobacter species
  ORGANISM     Campylobacter species
               Unclassified.
COMMENT        Annotated using prokka 1.13 from
               https://github.com/tseemann/prokka.
FEATURES       Location/Qualifiers
   source      1..783
               /organism="Campylobacter species"
               /mol_type="genomic DNA"
               /strain="strain"
   gene        121..564
               /locus_tag="DMACINML_01847"
   CDS         121..564
               /locus_tag="DMACINML_01847"
               /inference="ab initio prediction:Prodigal:2.6"
               /inference="similar to AA sequence:RefSeq:AVS37499.1"
               /codon_start=1
               /transl_table=11
               /product="ankyrin repeat domain-containing protein"
               /protein_id="Prokka:DMACINML_01847"
               /translation="MHEWILCGEEVKYLEEALKLGANPNMRSIKTENKSSFTNAGETL
LHQAAESDEKPIGACVEVLIKYGADVNAVNCGINKIEDGKISYYKPATPLDRANTYDI
SKNIKILKKAGAKTWKELVEEYNIDTSLERIEQIKMYEERRKDKK"

```

ORIGIN

```

1 ggatacaatg cactcagtag atatatcgat agagatggaa aaaataaaga agtaatagag
61 tattttttta aaaaaggatg cacatttgaa acttataatg aagaaagtgg cgatactcct
121 ttgcatgaat ggatactatg tggcgaagaa gtgaagtatt tagaagaagc tttaaaacta
181 ggagcaaatc ctaatatgag aagtattaa acagaaaata aatcaagttt tactaatgca
241 ggagaaaccc ttttaccatca agctgcagaa tctgatgaga aacctatagg agcttgcgtg
301 gaagtgctaa tcaaatatgg agctgatgtg aatgcagtta attgcggtat aaacaagatt
361 gaagatggaa aaatcagcta ttataaacct gcaaccccat tggatagagc caacacctat
421 gatataagca aaaatataaa aatcttaaaa aaagcaggag ctaagacttg gaaagaattg
481 gttgaagaat acaatatcga tacaagctta gaaagaatag aacaaattaa aatgtatgaa
541 gaaagaagaa aagataaaaa ataaaaggaa aaattatgga ttttaacaca gatatttttag
601 aaagcttaga taatttcaaa gcatttttag acacaaaacc tagcaaagaa cttttaaagg
661 cagtaaaaaa ttatatagat gattttatgg aaggtgcgta tgataattta gatccagaaa
721 actatgaagt tgcttttgaa gaagatactg gcatacctta tgatgaagca gatgaggatg
781 aat

```

//

LOCUS DMACINML_39 758 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..758

/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene 91..486

/locus_tag="DMACINML_01848"

CDS 91..486

/locus_tag="DMACINML_01848"
/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
/transl_table=11

/product="hypothetical protein"
/protein_id="Prokka:DMACINML_01848"
/translation="MFLLPVYLLLFLAGGCSYKYM DPQYYEFRSLCYFNLGKVLIEDE
SIKNTNIIIVTPKSKQIKDRIVETRFERKNENQVVYYRINTYFYDNYGIFLKGDEGAG
LYFRYMEVLSCKNIDKFKKDDWQVETLE"

gene 490..630

/locus_tag="DMACINML_01849"

CDS 490..630

/locus_tag="DMACINML_01849"
/inference="ab initio prediction:Prodigal:2.6"
/codon_start=1
/transl_table=11

/product="hypothetical protein"
/protein_id="Prokka:DMACINML_01849"
/translation="MSKNIKTQEAKLDLITKFLDYANIADASYAMLHLIDENDEKGF
LKG"

ORIGIN


```

1 attatthttat attttatctt taaaattttt tataaattaa aaaataaaac aaaaactata
61 aatthttaaaa caatattthaa aaaattttact ttgtttcttt tacctgtata tctthttatta
121 ttcttagcag gaggatgttc ttataaatat atggatccgc agtattatga gtttaggagc
181 ttgtgttatt ttaatttggg aaaagtgttg attgaggatg aatctataaa gaataaaaacg
241 aatataatag taacacctaa aagtaagcaa ataaaagata ggatagtggga aactagattt
301 gaaagaaaaa atgaaaacca agtagtgtat taticgtatta atacatattt ttatgataat
361 tatggtatat tcttgaaagg cgatgagggt gctggattat atthttagata tatggaagta
421 ttaagttgta agaattttga caaaaaattt aagaaagatg actggcaagt tgaaactttg
481 gaataacaaa tgagcaaaaa cattaaaaca caagaagcta aattagactt aatcactaaa
541 thtttagact atgctaatat agctgatgca agttatgca tgthtgcattt aatcgatgag
601 aatgatgaaa aaggtthttt aaaaggataa taatgctaga atthctthgtt aatctthttaa
661 tathttattct tatathtttc thttthgttt ttatathttc taththttta taththttatct
721 ttaaagtctt thtttaaaata aaaaataaaa caaaaact

```

//

LOCUS DMACINML_40 714 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..714
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```

1 gaatthtaaag attggcaaag catataththa aaagatccca ttaaaggaag catagctctt
61 tggactaaag cagaaaaagc ttattataaa tctthtaaaa ccaaaagaga aagatataaa
121 tatctagtga ttagaagtgg tataagaagc actgttatag atatacccta tgatgcttat
181 tgtaatgtag atgaaaaagg ataththaatc aatgaagaat acgcctatat ttatgatgaa
241 gttaacaata ataaagaaac cctaaaatct tctctthttta gacaagaatg gggtatagca
301 gcaggaatac taggaaaacc tgaatathttt gtgcgttcta aaaatcatgg ctthaatgcc
361 agaatgatac aatgthtttat thttatathatt caactcacag gtggaggata tgaagaatta
421 ggtataaaaa gaggaattta taattatgct gataatcttt tagaaatagg tataggatg
481 gcagggatac ataaaaatcc thttaagggt aaattagtaa aagatttagc taaaactata
541 cagcctgatg aathttggtat gctaccttht atagatgaga ttatgggagt agattgggtg
601 attgaththa ataaatathga thttgcctat gatgaagaag gtagaatcat ttgggctthta
661 tataatgata ttgaaaaagg taaathhaaa gatccaagag atgtggattc tact

```

//

LOCUS DMACINML_41 641 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

```

source      1..641
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
gene        complement(154..510)
            /locus_tag="DMACINML_01850"
CDS         complement(154..510)
            /locus_tag="DMACINML_01850"
            /inference="ab initio prediction:Prodigal:2.6"
            /inference="similar to AA sequence:RefSeq:APB39663.1"
            /codon_start=1
            /transl_table=11
            /product="VgrG protein"
            /protein_id="Prokka:DMACINML_01850"
            /translation="MKGNKKEVVEGKLELHVNKGINYFTEEHFSMQTNNYIDIYTEQN
LSTQTKKQHTELAESKYSDFTDCEVKAGNQILHQVGDQTQIVTKKDCVIIKAGGVEVI
IDSNGLVVRGGELKAE"

```

ORIGIN

```

1 tacatattat cttttcaact tttgtagttg ccttagcaca atcaaagcta ggtttagctt
61 cttttgggga ttgtgcatta gcactaatgg ctaacattaa acacaatcct aaaactatta
121 aaaacttttg cataagaact cctttaattht attttactct gccttaagct ctccacctct
181 aaccacaagt ccattagagt ctataatcac ttctactcca cctgctttaa tgataacaca
241 atctttctta gtaacaattht gagtatcacc tacttgatgg aggatttgat tgcctgcttht
301 tacttcacaa tctgthttgaa agtcactata tttagattct gcaagthttg tatgthttgtht
361 tttggthttgc gtgctthaaat tttgthttctgt gtatatatca atgthaaatgt tagthttgcat
421 actaaaatgt tcttccgtaa agthaaattht tcctthtatta acatgthagct caagthtttcc
481 ctcaaccacc tcctthtttat thccctthcac atthctthtct tcathcttht ggthaaatagtht
541 atthttgatttht gcacctattht ctathatcttht gthttthctct acaaatctcat gagagthtttht
601 agctathtcttht actthtattat ctactctctac atthtaaagtht t

```

//

LOCUS DMACINML_42 578 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

```

source      1..578
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
gene        27..179
            /locus_tag="DMACINML_01851"
CDS         27..179
            /locus_tag="DMACINML_01851"
            /inference="ab initio prediction:Prodigal:2.6"
            /inference="similar to AA sequence:RefSeq:CKG86653.1"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"

```

/protein_id="Prokka:DMACINML_01851"
/translation="MYNINCFRTQKGTKYLNEILAPKFYNYKDLVEIDDKGNVLRW
IGEINR"

ORIGIN

1 tttgggggaa tttggataat tgggatatgt ataatatcaa ttgctttcgc actcaaaaag
61 gcacaaaata tctcaatgaa atcttagctc ctaaatttta taacaaatac aaagatttag
121 aagtagagat tgatgataag ggtaatgtgc ttaggtggat tggagagatt aatagatgag
181 tttatttgga ttttacattg gattttacaa aggataaata atgagcgaac cttatgagat
241 ttatacacc aatgggttaa cattagatgt ggaaaaagat accaataaaa tactatttaa
301 agaaaatatt aaaccacag gcaattatac tcaagaatat tccaaagcgg tttttgaatc
361 ttattatatt atgaaaaact ccccctacaa agactataaa ccaatatatc tagatcctaa
421 cttttataca ggagagaaat ccactctagt agaatttaa gattggcaaa gcatatattt
481 aaaagatccc attaaaggaa gcatagctcc ttggactaaa gcagaaaaag cttattataa
541 atcttataaa accaaaagag aaagatataa atatctag

//

LOCUS DMACINML_43 572 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..572
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

1 aatgctagaa ttctttgta atcttttaat atttattctt atatTTTTct tttttgTTTT
61 tatatTTTTct attatTTTTat atTTTatctt taaagtcttt tttaaaataa aaaataaaac
121 aaaaactata aatTTTaaaa caatgTTTaa aaaacttgct ttatTTcttt tacctgtata
181 tcttttatta ttcttagcag gaggatgttc ttataaatat atggatccgc aatattatga
241 atttaagaag ttgtgtaaag ataatagtaa taaaatgata gtgtTTaata aagattattt
301 ggattTaaaa aaacaatttg ttcaagctat gacgaataat tctaataata gaattaaaaa
361 taatgggata aaatattTTTT ataatgaaaa attgaatttg gaaattcaac cttcaaattg
421 gaaagaaata gaaactaaat cacgcgaaat taaacttgga ataggaaaaag taaaagaaaa
481 agaaatagaa gcttgggata ttgatgataa aaataacatt aagtatcaag aatTTTaaacg
541 atatTTgtat tataattata gtatattTTTT ag

//

LOCUS DMACINML_44 564 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..564

```

/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(129..554)
/locus_tag="DMACINML_01852"
CDS complement(129..554)
/locus_tag="DMACINML_01852"
/inference="ab initio prediction:Prodigal:2.6"
/inference="similar to AA sequence:RefSeq:CKG86435.1"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:DMACINML_01852"
/translation="MQIPIYSKLGKLESKIDNIISSGQIAWFVCSVGIFIIIPMIYFY
ISNNYDQFTILFIMIFIFILNMFYTKNFFALLLVILIFIYIKYHEFIYNFKILFFIF
APIILIFLAWRILITFLCGYIFLVAMVYIFELLGGFYK"

```

ORIGIN

```

1 atcaggactt ttgcctttgg caagtcctaa aaaggcatgg gtgaaatctt ctctttgcca
61 ataactga tttttaaata ccaaaaaaca ttctaccaat ggatcaatat aaattgttac
121 ataatatttc atttataaaa tcctcctaata aactcaaata tatataccat agccactaaa
181 aaaatataatc cgcataaaaa agttattaga attctccaag cccttaaaaa gataagaatt
241 ataggtgcaa aaataaaaaa taaaatttta aaattataga taaactcatg atattttata
301 tatataaata tcaatattac aagtaataat aatgcaaaaa aatttttagt ataaaacata
361 tttaatataa aaataaatat cataataaat aaaatagtga attgatcata attgttgctg
421 atataaaaaat atatcatagg aatgataaaa ataccacgc tacacacaaa ccaagcaatt
481 tgcccacttg atatattgtc tattcctttg ctttctagtt ttgctttgag tttagaataa
541 ataggaattt gcaaatattac tcct

```

//

LOCUS DMACINML_45 563 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..563

/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene 137..511

/locus_tag="DMACINML_01853"

CDS 137..511

/locus_tag="DMACINML_01853"

/inference="ab initio prediction:Prodigal:2.6"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:DMACINML_01853"

/translation="MTMQIIQDQIPQELSGRMTKQSLERLANHLHIATQNEMGDIPLW
LLWDLAITCKQLDLKENYQKVLIEIQMNETQHKANLAEQRADLAEQRAEKAEQRAEK

AEQLYQQIKNFRISMMKKYQTN"

ORIGIN

```

1 gagatgagta tgagaattta aactttggaa atcatatgca ctttaatgct aaaaatcaag
61 agcagttttt taaaatgatt gaaaccttta gaaaaggat cagataagcg aaaaagacaa
121 aacaggaga aagaaaatga caatgcaaat aatacaagat caaattccac aggaattgtc
181 agggagaatg acaaaacaga gcctagagag attagcaaat catcttcaca tagcgaccca
241 aaacgaaatg ggggatattc cactatggct actttgggac ttagcgataa cttgcaaaca
301 attagattta aaagagaatt atcagaaaatg cttaatagaa atacagatga acctagaaac
361 acagcacaaa gcaaacttag cagagcagag agcagactta gcagagcaga gagcagagaa
421 agcagagcag agagcagaga aagcggagca attatatcag caaataaaga atttcagaat
481 atcaatgatg aaaaaatc aaacaaatta aataaagaag aaagcaagga atttaatc
541 cccgctctaa gacggggcaa cct

```

//

LOCUS DMACINML_46 559 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..559
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```

1 gatacttggg atcttgaagg tgcagcaatt gtaaaactaa tgaatttaga taaagaagaa
61 tttaaaagct ataaatattt tccttatgat ttaatttaat cttatttggg taacagaaaa
121 gagtagagat agacttggca ttgtagataa aaaagatagg gaaaaaatag aagaacttct
181 tgaaaaaaat agcaatgaag tcagaaaaga tttatttcat gttgatgaag gaggtaaaga
241 aactattgat tatttagata aagatgcaaa taaaataaaa cccaaggat aaaaaatgct
301 aagagatact aagagagatg aagcgtatct tacgaaacat ataatagagt gtgaagaaga
361 aattaaagaa gatgaaaaaa tacttttaga gcttcctttt ggaaaaagag aaacttgtct
421 tttttgtata gtagatagaa aaaaatgtat tgctatggat aaatactctc gtggtgatga
481 tataaatcta gttaaaaaag atttagaagc acttatgcta ttaagacaaa aaaatcgttt
541 agaattaggt ggattttagt

```

//

LOCUS DMACINML_47 541 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..541
/organism="Campylobacter species"
/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 ttttttgatt ttgcggcatt taaatcaaca tcgccttttg cattaattgt tatgcatca
61 ccttttgctt caactccatt taaaacaata tttccttttg tacttttctat atttaaatta
121 ccgccagcat tcattttaga aatattttca ctagaatfff cgcttttatc gtggttaaat
181 tttaatccca cagtttgttt agaatcagca ctgataaggt tgctcgtaaa tagatttcca
241 gcattagcta aaacttgaga agctactatt ccataattta tgcctagatt ttgtttctca
301 gcagctgcat tttgtactga ctgattaata acagacgcta taggactacc tgcttcgata
361 acctctttag cgtataaact aaatcctgtg ctattttctg tcttaacatc ttcataatfta
421 gaactagcaa tgtcccctgc ttttaagatta atatctttat ctgcttcaaa attagcacca
481 cctatatcca aggtattatt tgccttgata ttaatatttg cacctttgat ggtgtagaa
541 g
```

//

LOCUS DMACINML_48 502 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..502

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 aaaaatataa aaatcttaaa aaaagcagga gctaagactt gggaagaatt ggttgaagaa
61 tacaatatcg atacaagctt agaagaacca gaacaaatta aaatgtatga agaaagaaga
121 aaagataaaa aataaaagga aaaacaatga aaacattaga agaattaata gctttagaag
181 aaaaatatct aaaagaatta tgtttagaat tttatgatct tgtagaggct aacaaacttg
241 aagaagttaa agaattttta aaagactatc ctgtacctga aatattcttt gaaaaatgct
301 ataaagcata ttatgattat aaagaaagag ctattatcga tactgctatc actttagctt
361 gtgcaggact tgcttatgat aaaagtaaaa gttttgaaat gatggagtat tttgaaagcc
421 taggacttaa agctgatgaa gtacactttg gatacaatgc actcagtaga tatatcgata
481 gagatggaaa aaataaagaa gt
```

//

LOCUS DMACINML_49 499 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..499

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 gataacttggg atcttgaagg tgcagcaatt gtaaaactaa tgaatttaga taaagaagaa
61 tttaaaagct ataaatattt tccttatgat ttaatttaat cttatttggg taacagaaaa
121 gagtagaat agacttggca ttgtagataa aaaacatagg gaaaaaatag aagaacttct
181 tgaaaaaaat agcaatgaag tcagaaaaga tttatttcat gttgataaaa aaggcaatgt
241 gagtattaaa gaattagata aaaatgcaaa aaccaaaaac ttaatagaaa ggatagaaaa
301 tggtaaggga tactaagaga gatgaagcgt attttacgaa acatataata gagtgtgaag
361 aagatatcaa agaatccgaa aaaatacttt tagagcttcc ttttgaaaa agagaaactt
421 gtcttttttg tataacagat agaaaaaaat gtattgctat ggataaatac tctcgtgggtg
481 atgatataaa tctagttaa
```

//

LOCUS DMACINML_50 495 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..495

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 aattcttccc aagtcttagc tcctgctttt tttagattt ttatattttt atttatatcg
61 taagtattag cttcatccaa tggagtagca ggatcataat attcaatttt cccatcttca
121 atatcacata taccacaatt aactgcattt acatcagctc catattttag tagcacttcc
181 acacaagctc ctataggctt ttctttactt cttgcagctc tatgcaaaag ggtttctcct
241 gcaccactaa agctaaattt attttctggt ttaattcttc tcatattagg atttgctcct
301 aattttaaag cttcttctaa atacttcact tcttcgccac atagtatcca ttcattgcaaa
361 ggagtgtctg cacttttttc attataagtt tcaaatgtgc atcctttttt aaaaaaatac
421 tctattactt ctttattttt tccatctcta tcgatatac tactgagtgctc attgtatcca
481 aagtgtactt catca
```

//

LOCUS DMACINML_51 494 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..494

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 cctaatacaa attcaggttt ttctgctact ttatttggag aaaaaagaaa acaaattgat
```

```
61 agtaaaacta aagaaaaaag ctataaccagt gaatatggct atatcaatta tatttttagct
121 attagaggaa cagaaatgag ttctttttaa gatttgcttg tagctgatgc ttcttttagcc
181 ataggctcta tacctaaagc ccaatatgat gatatgataa actttttatga aactttgtatt
241 aaagattatc cacaaatcaa agaaaaagac tctcttacca ttacaggaca ctctcttgga
301 ggctgtcttg cacaactctt tgctttaagt atctgtgatg ataagaatag aaacaatatc
361 aaagctttat atacctataa tgcacctgga gctagaaaga taatacctcc ttatgattat
421 atagtcaaac tctttatatt tcacagtaaa gaacaacaag aaagatttat aaaagaagaa
481 atagaaaata tagc
```

//

LOCUS DMACINML_52 474 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..474
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 cctaaagagt gtcccactaa agtaatttta tcaaagcaaa attctttttt tatttagcgta
61 taaaatttca ataaagaatt gcattgtttt ttaggaattt ttccatttag aagtataaaa
121 tactgatca aatctccaaa atcaaatttt aaaggcttta aatcacttcc tgcgatagct
181 aaaataaatt cttgattttc cttgttttga aataagcttg ccctaaatcc accttttgat
241 tcaagacatt ctttattaat gtgagcaagt aaatcaaatc tcttgataaa atcaaagcc
301 atcaaagggt caaattttcc tattgtaacg cattcttttt gaaaaatatt atgggttaaa
361 accttaaca atgtttttct atctatattt aaaaaaattg ttgtatttaa attaagataa
421 gcagcatgag aaagcaaagt gtaatgatat aaatgcatta gagcattttt attt
```

//

LOCUS DMACINML_53 470 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..470
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 gtgtatggag gcgtgtttta ccgtggaaga taaaaaatg ccgggttaac gaaccgga
61 ttatcatcac tcttcgctgg attgctcctg catttttgta ccgcttgctg tgcggcgctt
121 accgatattt tttgtatcgc ggtgacgttt cttcacgcgc ggcttctctt tttctttctc
181 ttttttcttc tcggcgcggt tcgccagcac ttttttcgac ggtttgccgg tcagcttttc
```



```
241 gctgggcgca cgcgtggctg ggcgaagctc atcaatgacg cgcgctttta gcggtctttc
301 gatgtagcgg ccgattttca gcagcaacag atggctcgtgg gcttctacca gcgagattgc
361 agtgcctttg cggccagcac ggcctgtacg accaatgcga tgcagatagg tatcgccact
421 gcgcggcatg tcgaagttaa tgacgtggct gacgtcagga atatcaatcc
```

//

LOCUS DMACINML_54 462 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..462
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 gcgctggctg gtcggatgtg ggttcctggt cctcactttg ggatatatcg aataaagatc
61 atcagagaaa tgttttaaaa ggagatatct tcgcacatgc ttgtaatgat aattacattt
121 attccgaaga tatgtttata agtgcgattg gtgtaagcaa tcttgtcatt gttcaaacaa
181 cagacgcttt actggtggct aataaagata cagtacaaga tgttaaaaaa attgtcgatt
241 atttaaacg gaatgatagg aacgaatata aacatcatca agaagttttc cgcccctggg
301 gaaaatataa tgtgattgat agcggcaaaa attacctcgt tcgatgtatc actgttaagc
361 cgggtgagaa atttgtggcg cagatgcatc accaccgggc tgagcattgg atagtattat
421 ccgggactgc tcgtgttaca aaggagagac agatttatat gg
```

//

LOCUS DMACINML_55 461 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..461
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 ggcttcaacc gtttcttttt cgatcagcat atcgatagca tcggtcaact gaatttcac
61 cccggcgccc ggaggggttt tcgccagcaa cgcccagata tccgcgctca acacataacg
121 cccgacaatc gcaaggttag acggcgcgac atccgctttt ggtttttcaa ccacgccaac
181 catcggcaca ctttcgcccg gtgccagctc aacgccttta caatcgacca cgccgtatgc
241 agtcacatct tctactggct caaccataat ctggctattg ccggtttcat cgaaacggcg
301 gagcatttca gccaggttat cctgagacag gtcggactca tattcgtcaa gaataacgct
361 tggcagaata acagcgacag gttcgtttcc gacaacggga tgcgcgcaca atacggcatg
421 gccaggcct tttgccagcc cttgacgtac ctgcataata g
```

```

//
LOCUS      DMACINML_56                454 bp    DNA        linear        16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..454
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"

ORIGIN
    1 gacaagttat cattaaagtt gatgaggtcc ttgaacagga aaaacctgaa gccatgttag
    61 ttcttggtga tactaactcc tgtatttcag caataccagc gaagcgtcgg agaattccga
    121 tcttccatat ggaggctggg aatcgttggt ttgatcaacg cgtaccggaa gaaactaaca
    181 gaaaaatagt tgaccacacc gctgatatca atatgacata tagtgatatc gcgctgtaat
    241 atcttctggc tgaaggtgta ccagccgata gaattattaa aaccggtagc ccaatgtttg
    301 aagtactcac tcattatatg ccgcagattg atggttctga tgtactttct cgcctgaatt
    361 taagaccggg gaatttcttt gtggtaagtg ctcacagaga agaaaatgtc gatacccta
    421 aacagcttgc gaaactggcg aatatactta atac

//
LOCUS      DMACINML_57                449 bp    DNA        linear        16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..449
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     complement(209..442)
            /gene="apbC"
            /locus_tag="DMACINML_01854"
  CDS     complement(209..442)
            /gene="apbC"
            /locus_tag="DMACINML_01854"
            /inference="ab initio prediction:Prodigal:2.6"
            /inference="similar to AA sequence:UniProtKB:Q8ZNN5"
            /codon_start=1
            /transl_table=11
            /product="Iron-sulfur cluster carrier protein"
            /protein_id="Prokka:DMACINML_01854"
            /translation="MQRHLTQKLAEKYHTQLLGQMPLHISLREDLDRGTPTVVSRPES

```

EFTAIYRELADRVAALYQGEVIPGEIAFRV"

ORIGIN

1 tcgatacctt aaaaccaatt gaaaaaataa atcagtagga taggtatgat caattcaaat
 61 aatgtttttg ccgattatntt cagataaaca cctgtctgtt taagcaggaa ttaacaatgc
 121 gggggctatt attttattaa tacattcact gcatcaatat atattaatgc agtgaatgct
 181 atattctctt tggaatacgt caggaggatt acaccgctcg gaaggcgatt tcaccggaa
 241 tcacttcacc ctgccagtaa agctgtgccg caacgcgatc ggccagttcg cgatagatcg
 301 cggtaaattc gctctccgga cggctaacca ccgtcggcgt accacgatcg agatcttcgc
 361 gcagactaat atgcagcggc atctgacca gaagctgagt atggtatntt tccgccagct
 421 tctgggtcag atgccgctgc atattagtc

//

LOCUS DMACINML_58 443 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..443

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

1 agatagaaaa aaatgtattg ctatggataa atactctcgt ggtgatgata taaatctagt
 61 taaaaaagat ttagaagcac ttatgctatt aagacaaaa aatcgtttag aattaggtgg
 121 atttgatact agcgattata gaggaaatgc tattgaactt tgtgtagag tattattaga
 181 tatggatagt gcttgtgtat tagaattaat agaagaagat gagagaaaga aaaaagatat
 241 ttttaataga gattggtttt tacatntttat gggttctaag ggtaagaatt taaatntttaga
 301 acgcaaagt aattgtaaag aacacgagct tattaagaa tttgtagcta ctaaggatat
 361 tgagntnttta catcaatata tgaaaaaaca tacaagatta agagatcctc tagatacttg
 421 ggatcttgaa ggtgcagcaa ttg

//

LOCUS DMACINML_59 442 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..442

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

1 gcacaagcct tacagcctat acacatactg tcttctacta tcactatgcc ccattnttacc
 61 ttcattggtt caccgnttg acacgntttc aagcaagat ggnttagaaca gtgattgcat

```
121 gatatagaag thtagtaagc aaaagcattt tgctcatagc ttccatcggt tttgcaagtc
181 cagtttcttc cttcggtttc aaatacacgg cggaaattaa cccctacagg catatcttta
241 taatccttgc aagataatga gcaggttcta caacctacac acttgctttg atctaacata
301 aagccaaatt gtgaattttc ttctaatttc atattatctc cttaagcttt tgcgatttca
361 accaagatag aatgttgacc attccctttg gatatagcag ttggttctaa acttgcaagt
421 gaatttacac aagttcctac at
```

//

LOCUS DMACINML_60 440 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..440

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 tccctggatt gtcctgcctc tccgacgcga gaatacgcat agcctatgaa gccaatTTTT
61 agccgtggcc cgtcgctaca gattcgctt attctggcgg tgctggtggc gtcgpgcgtt
121 atcattgccg acagccgcct ggggacgttc agtcaaattc gaacgtacat ggacactgcc
181 gtcagtcctt tctattttat ttcaaacggc cctcgtgaac tgctcgacag cgtgtcgcaa
241 acgctggcct ctcgcgacca gcttgagctg gaaaatcggg cgctgcgcca ggaattactg
301 ctaaaaaaca gcgacctgct gatgctgggg cagtacaacc aggggaacgc gcggttgccg
361 gagctgctgg ggtcgccgct gcgtcaggac gagcagaaaa ttggtgactca ggttatttca
421 acggttaacg atccttacag
```

//

LOCUS DMACINML_61 439 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..439

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 gcttaatccc ggctgcaggg ttttgggtga acgtccaaag cgctccaccg tccactggta
61 cccctgcgga acgattttga cgcccgcgcc gacgatcacc agcgcgacga aaatgagaat
121 agggataaga atgagcatag ctaaactcctc tgttgcgttg tccataaacc gattttgctg
181 acgaattaag cgaattatac ctgattcagt aaagcatggt ccccccttat taattacagg
241 gatacactat cgctataaaa atatgaacaa cggatgcgca ataaatgaca gaacgtagca
301 tgttgcttga gttaaagcag gtcggttacc ggactgcgac gacaaaaata gtgaataaca
```

361 tcagttttac gctgcaacgc ggcgaattta agttaattac cggtccttct ggctgcgaa
421 aaagtacgtt gttgaaaat

//

LOCUS DMACINML_62 437 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..437
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

1 attttcttta gtatthttta gtgcatgtgc ttttaagaa aaaaagcaa gtgaaataga
61 aactcttgca agtaattatg gtggaattta tatctttgat aaaaaataa gagaagagat
121 attggaatta gagaaaaaaa gagaagaatt tcgtagtaag tatttgggta gtgaaattaa
181 agtaggaaat gaaactcatt ttgtgaattt ttcttatttg aagaaaaaat tcccccaaat
241 cttttctaag gtttgtaact attatcgtag tgattataga tataaaggca aggctaattt
301 tggtttcaa gataaacccg aatttgcata ctatgaagat caatttaaag catatatggg
361 tgaagaaaac tataaaaaat taagacctta ttaggtatg acaacttatt atgtgtgtga
421 gggtagaaaa tctcctg

//

LOCUS DMACINML_63 418 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..418
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

1 ttaaaatctt caggcaatcc tgcagctttg ttaaaatcac ttccatata accatcttta
61 tctacactat aaccataggc tgtattagta gaagtattac ttatatctac ttgtttatat
121 tttagagtat aaatagagtt tttaaattca cttgatata cataattagg agaacttgct
181 ttactactta tactaaaatt agtattattg ctagtatttg ttgtattagt agaatttaat
241 acttcacttc ttgctagagt ttgtgaattt gcattttgaa tttcatttaa ttactagca
301 ttttgtttta aaaaagcatt agcaaaactt attttagaat tttctttact ttctttatta
361 gcttttgctt gtgaaagtat agaaccatag tttgagttat cattgatgct aaagatac

//

LOCUS DMACINML_64 418 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

```

ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
           Unclassified.
COMMENT Annotated using prokka 1.13 from
         https://github.com/tseemann/prokka.
FEATURES             Location/Qualifiers
   source             1..418
                     /organism="Campylobacter species"
                     /mol_type="genomic DNA"
                     /strain="strain"

ORIGIN
    1 gtccggatta tcgtcgttac tgccaatcac gtaccacggt ttgacctcta ccagccagtt
    61 accgttttcg gccatcagac gggatatacag acggttccag ctacgcgagg tgggggtccga
    121 acgtccgtta gagtcattgt ttagtagccat ctctacgtcg cgcagcgtcc agccggcaaa
    181 gcgataatcg gtagcaaac caagaaaaag ctgctggttc tagttggttt cgcgaaacgg
    241 cgaagactct ttactgttgg aaagctgcca ccaggatttc tgcgtatagg aagcgccag
    301 taccgagttc ggccccagta ttccgcgcca cagcggaaac gccaggctca actgaaattt
    361 cacttcatct ttacgtgcgt tttcagacca gttgtaggta cttatggcct ctttgttc

//
LOCUS          DMACINML_65              417 bp    DNA        linear        16-DEC-2020
DEFINITION    Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
           Unclassified.
COMMENT Annotated using prokka 1.13 from
         https://github.com/tseemann/prokka.
FEATURES             Location/Qualifiers
   source             1..417
                     /organism="Campylobacter species"
                     /mol_type="genomic DNA"
                     /strain="strain"
   gene              22..276
                     /locus_tag="DMACINML_01855"
   CDS              22..276
                     /locus_tag="DMACINML_01855"
                     /inference="ab initio prediction:Prodigal:2.6"
                     /inference="similar to AA sequence:RefSeq:CAL35035.1"
                     /codon_start=1
                     /transl_table=11
                     /product="putative hydrolase"
                     /protein_id="Prokka:DMACINML_01855"
                     /translation="MDKVVFKEPVFIGDIISCYSKVISVGNISIGVEVEVTAQRVDSQ
GCTSCINVTSALVTYVSVTRDGKKKPISEELKRIHGFLNT"

ORIGIN
    1 gaacgcgttg taactatc tatggataaa gtagtcttta aagaacctgt ttttatagga
    61 gatattattt cttgctattc taaagttata agcgtgggaa atacttctat aggtgtagag
    121 gtagaagtta ctgctcaaag agtggattct caaggctgta cctcttgcac caatgtaact
    181 tctgctttag ttacttatgt cagtgttaca agggatggaa agaaaaaac tatcagtgaa

```

```
241 gaattaaaga gaattcacgg atttttaaat acctaaaagc ttatTTTTgt atggtaaaaa
301 ctttaccctc ttaagctcat cagcatttat ttaaaccgcc gctgttTgtat tttttatcta
361 aacactcctt gaaaaattct cctcttGttt ttggggTttt ttcaggatgt ttttTgt
```

//

LOCUS DMACINML_66 408 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..408
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 ggTTTTaaag gcgcgcgcga tgtgcgattt gcgatgtggg tatcgatgct ggggatgtgg
61 ggctgtcgcg ttgtggcagg gtatacgctt ggtattTgtc tgggtatggg ggTtTtaggg
121 gtttggctgg ggatgtttct tgactgggcc gtgcgcggcg cgctgTTTTa ctggcgtctg
181 gtaagcgggc gctggctgtg gagatacccg cgcgtaaaga gggagtaaagc gctTTTTgtc
241 gtgaatatca tcaggaaacg gtgaatttta accgaagtgt ggaataaaagc agcaaacgaa
301 cttttttTgt gaaaacaggc tttgacaagc caggggcacc tcgttaatat tcgccccgtt
361 cacacgattc ctctgtagtt cagtcggtag aacggcggac tgTtaatc
```

//

LOCUS DMACINML_67 407 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..407
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 tttcaatact cagtattttt tcaatatatt ttgaactttt aagctattca tagcattttt
61 caattgcagc atggctctga atttctgagc ctaacaacca aatttatact atgtttggca
121 acaaagtggg atattttgac ctcaaaaggT tgatctctga gatgattctt cccttcccta
181 cacacagaca gtttatcttt tctttgctaa tggTTTTtga actgccagtg atgtatacag
241 atagcatata gtaagcaaac tgatagcaaa cagacacaag aacaggacta agttcaatta
301 tagaaataat tctccataat tgttcaagtt ttatatTTtga atagcaacca caaatatagg
361 acaacaagag tatcaaatat aattacagaa aattatcata tcatggc
```

//

LOCUS DMACINML_68 395 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

```

ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT Annotated using prokka 1.13 from
         https://github.com/tseemann/prokka.
FEATURES Location/Qualifiers
  source 1..395
         /organism="Campylobacter species"
         /mol_type="genomic DNA"
         /strain="strain"

ORIGIN
  1 gacaaaacct ttatccta ccaacaaga tcttttgtaa catcctcgcc ttggatta
  61 attttaatc cactttcact atttttatca tcttcattcg catgctttaa aaaataatga
  121 tccgtattca tacgatcaag aaaaaatact tttccatcat aaattcccct gcccttaagc
  181 tcaacttttg cttttctaaa atcaaaatcc agattatcaa aaatagcctg ctttttatca
  241 aaaatggcaa atttaagtcc ggtgctttga gcgatattac tagcgctttc attcatgggg
  301 ataaagcgag aattgaggat atttataatg atatttctat ggctctcctt taaaggagaa
  361 ctttttgtaa cgactaattc ctcatataat ttttg

//
LOCUS      DMACINML_69                395 bp    DNA        linear      16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT Annotated using prokka 1.13 from
         https://github.com/tseemann/prokka.
FEATURES Location/Qualifiers
  source 1..395
         /organism="Campylobacter species"
         /mol_type="genomic DNA"
         /strain="strain"

ORIGIN
  1 gcggagtgga tacaacaca gatcgctacc ttaccgagta taaaacaagt actagcaata
  61 caatcataag agtagaaagt gttgaaatag acaaatccaa agccggagtt gatggaaaag
  121 atggcatagg ttacggcact atagttcaag attttaaattg cgggaatgaa ataattaact
  181 caaccaataa aggaaatgat gcaacaaatg gtaccaaaagg taccgatgct catctttacg
  241 gtaatggtgg taatggtggt aatggtgaaa gctttatcat cagcggtatg gtaggcagtg
  301 aagatacaaa gatctacgat cttaacaaa atatcacat ttcagctaca ggtggaaaag
  361 gtgccaatgg tgctgatggt ggctatgctg atggc

//
LOCUS      DMACINML_70                393 bp    DNA        linear      16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.

```


COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..393
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN
1 cttttgctct ttggataaat tcaagtatta attttgcttg ttctgctttg atagctgcac
61 cctgagaagt caccgaaggg ctagttaaag caagagtttc aagctcttta agctgagcat
121 taataagatc tttttgagtt ttagcaacac tttttctaaa aacttgcaaa gcattcatat
181 ctgattgtcc atttgctacg atcagccttg aaacatcctc tagtgctggt ctttttcgaa
241 ctactaaagt ttttaagccc ctatgttctc cattgactat tctgctgata ttttgcgaaa
301 tgtattcggg actaagctgc acttcatcac ccgtttttaa taaaacttta gaaaattgca
361 ttttattata ggcacttact tcaagtctat gat

//
LOCUS DMACINML_71 391 bp DNA linear 16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..391
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN
1 ctatcaaac aagtatttat aagagaaata caatatttag gttctatddd aactatddd
61 tttgttcaa aacgagcttg tatagcacia gcataagctg tgtttgtatt tttaggttt
121 acaatatctt ctcctttact atttttcata acaatatctt gctttaattd atcaccaaaa
181 gtataaatat tattcttttc atcttgctct atatdddccc aaacatatta caacatcgca
241 taactagcat ctgctatatt agcatagtct ttgatttgag agataagttc tttaggattc
301 atcagtaact ttgtcctgta tttttttcat cactttttat aaattdacca ttagtaaaat
361 aatgaaaaga tccccctcct gcacttttac g

//
LOCUS DMACINML_72 374 bp DNA linear 16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..374
/organism="Campylobacter species"
/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 atattatgta acaatttata ttgatccatt ggtagaatgt tttttggatt ttaaaaatca
61 gtgttattgg caaagagaag atttcacca tgccttttta ggacttgcca aaggcaaaag
121 tcctgataag ttagataaat atagatgaag aatcaaaaca aaaatttctt aaaaacaaag
181 aatgggacaa gatagatcaa aaatgggatg aagctaaagg gcctaatagaa ttcaatgatg
241 gtttttaggg ttttgggaact ggagtttttt taactccttc taaaatgcaa aagattgatt
301 ttgaaattgc aaaaggttta gatgagtggc ttgataatga aaatgtgtgt tgctttaatg
361 tttatactaa agat
```

//

LOCUS DMACINML_73 364 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..364

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene complement(239..315)

/locus_tag="DMACINML_01856"

tRNA complement(239..315)

/locus_tag="DMACINML_01856"

/product="tRNA-Ile"

/inference="COORDINATES: profile:Aragorn:1.2"

/note="tRNA-Ile(gat)"

ORIGIN

```
1 gatataagta aaaccaaaga aaagataatt gggttttatc ctttaacaag tcctgtaaaa
61 ttgtttttat taaaacttgc ttgtgactct taacaatgat aattataaag aacatttagg
121 tttaaaacct aaaggaagta tatgatatat caaagtatat ttataaaata tatacttgct
181 ttagatttta aaacttgatt tcaaactctg tttttatctt ttaagattga tatttctatg
241 gtgggcctaa caagacttga acttgtgacc tcacccttat caggggtgca ctctaaccag
301 ctgagctata ggcccttaat aatggtggag aatagcggga tcgaaccgct gacctcctgc
361 gtgc
```

//

LOCUS DMACINML_74 362 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..362

/organism="Campylobacter species"

/mol_type="genomic DNA"
/strain="strain"

ORIGIN

1 taatagtatt ttgatttgca cctatttcta tatctttggt ttctcctaca aactcatgag
61 agtttttagc tattcttact ttattatcta ctcctacatt taaagtattg cttaatccta
121 ctatagtgtc ttagataaa cctacattag ttaagtattc tcctcccaca ttgacatttt
181 tagctaagtc tatggtttga gtatgaacct ttttaatcct ttcattataa attccatcta
241 ccctagaatc tttatcattt aaaattcttt gagtgaaatt atgctggact aattcatcat
301 aatccttttg ggcttttaaa taaatttggt ctttatcttt tatatttgag agggttaagtt
361 ca

//

LOCUS DMACINML_75 357 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..357

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

1 atgataaaag caaaagtttt gaaatgatgg agtattttga aagcctagga cttaaagccg
61 atgaagtaca ctttggatac aatgcactca gtagatatac cgatagagat ggaaaaaata
121 aagaagtaat agagtatttt tttaaaaaag gatgcacatt tgaaacttat aatgaagaaa
181 gtggtagcac tcctttgcat gaatggatac tatgtggcga agaagtgaag tattttagaag
241 aagctttaa actaggagca aatcctaata tgagaagtat taaaacagaa aatgaattta
301 gcttttagtgg tgcaggagaa acccttttgc atagagctgc aggaagtaaa gaaaagc

//

LOCUS DMACINML_76 348 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..348

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

1 tttagagctt ctttttgaa aaagagaac ttgtcttttt tgtataacag atagaaaaaa
61 atgtattgct atggataaat actctcgtgg tgatgatata aatctagtta aaaaagattt
121 agaagcatac gtattattaa aacaagaaca tcgttttagaa gtaggaattg atattggtta
181 ttatagagga aatgctcttg aactttgcat tagagtatta ttatagatgg atactgcttg

241 tgtattagaa ttaatagaag aagatgagag aaaaagaaga gatattctca atagagattg
301 gtttttacat tttataggat ctaagggtaa aaacttaaat ttagaacg

//

LOCUS DMACINML_77 333 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..333
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

1 agtagattgg gtgattgatt taaataaata tgattttgcc tatgatgaag aaggtagaat
61 catttgggct ttatataatg atattgaaaa aggtaaatta aaagatccaa gagatgtgga
121 ttctactcct gaaagtagaa atgaatttga tgatgctatg gatggatagc aaaatggaat
181 ggtaactaga tttgatgtag atattagaaa cgaaagagat gagagatctg ctaaactgac
241 tatggatacc ctagtattaa gtgccaaact cgcagccctc actcctcctc aaggctatcc
301 taatgctcct tattatttta cacctgaaag att

//

LOCUS DMACINML_78 300 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..300
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

1 taatTTTTag cttAattgtg ttgtctttgt gtttggttta taatttcatt gtatggTTTT
61 ttgggtgggt ttaagatatt gatttgctag gctggtaaatt ttgtttgggt ttttttattg
121 tttgaataca cttgctttat ttgggtgggtt tattggttgt gagcttggtt ggTTaagttg
181 gactgatggT ttaatcattt ttaatctgtt tttagtttaa ttgttaaatt tggTgtttgc
241 ttgtatattt ttatctatta aatttatttt ttgtatgcta attaaatatg tttttgtatt

//

LOCUS DMACINML_79 296 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

```

ORGANISM Campylobacter species
          Unclassified.
COMMENT   Annotated using prokka 1.13 from
          https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
            source          1..296
                              /organism="Campylobacter species"
                              /mol_type="genomic DNA"
                              /strain="strain"
ORIGIN
            1 gcttttcttt acttcctgca gctctatgca aaagggtttc tcctgcacca ctaaagctaa
            61 attcattttc tgttttaatt cttctcatat taggatttgc tcctagtttt aaagcttctt
            121 ctaaataatt tgcatgattt agcaatatcc aaacatgcaa aggagtgctg ccacttttctt
            181 cattataagt ttcaaagtgt catccttttt taaaaaata ctctattact tctttatttt
            241 ttccatctct atcgatatat ctactgagtg cattgtatcc aaagtgtact tcatcg
//
LOCUS     DMACINML_80                294 bp    DNA        linear        16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS  .
SOURCE    Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT   Annotated using prokka 1.13 from
          https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
            source          1..294
                              /organism="Campylobacter species"
                              /mol_type="genomic DNA"
                              /strain="strain"
            gene            complement(116..268)
                              /locus_tag="DMACINML_01857"
            CDS             complement(116..268)
                              /locus_tag="DMACINML_01857"
                              /inference="ab initio prediction:Prodigal:2.6"
                              /inference="similar to AA sequence:RefSeq:CKG86653.1"
                              /codon_start=1
                              /transl_table=11
                              /product="hypothetical protein"
                              /protein_id="Prokka:DMACINML_01857"
                              /translation="MYNINCFRTQKGTKYLNEILAPKFYNYKDKLEVEIDDKGNILRW
IGKINR"
ORIGIN
            1 agtattttat tggtatcttt ttccacatct aatgttaacc cattgggtgt ataatctca
            61 taagtttcgc tcattattta tcctttgtaa aatccaatgt aaaatccaaa taaactcatc
            121 tattaatttt tcctatccat ctaagtatat tacccttacc atcaatttct actttctaat
            181 ctttgatttt gttataaaat ttaggagcta agatttcatt gagatatttt gtgccttttt
            241 gagtgcgaaa gcaattgata ttatacatat cccaattatc caaattcccc caaa
//
LOCUS     DMACINML_81                280 bp    DNA        linear        16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION

```

KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..280
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"

ORIGIN
 1 attcaaacia taaaaaac caacaaatt taccagccta gcaaatcaat atcttaacac
 61 caccaaaaa accatacaat gaaattataa accaaacaca aagacaacac aattaagcta
 121 aaaattagat tcaataaata aaaaaggata attaatacaa aaacatattt aattagcata
 181 caaaaaataa atttaataga taaaaatata caagcaaaca ccaaatttaa caattaaact
 241 aaaaacagat taaaaatgat taaaccatca gtccaactta

//

LOCUS DMACINML_82 273 bp DNA linear 16-DEC-2020
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..273
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"

ORIGIN
 1 atcataatat tcaatthttcc catcttcaat atcacatatg cgacaattag ccgcatttac
 61 atcagctcca tatttgatta gcacttccac gcaagctcct ataggtttct catcagattc
 121 tgcagctcta tgcaaaaggg tttctcctgc accactaaag ctaaattcat tttctgtttt
 181 aatacttctc atattagat ttgctcctag ttttaaagct tcttctaat acttcacttc
 241 ttcgccacat agtatccatt catgcaaagg agt

//

LOCUS DMACINML_83 273 bp DNA linear 16-DEC-2020
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..273
 /organism="Campylobacter species"
 /mol_type="genomic DNA"

```

                                /strain="strain"
ORIGIN
    1 ctagatattt atatctttct cttttggttt ttaaagattt ataataagct ttttctgctt
    61 tagtccaagg agctatgctt cctttaatgg gatcttttaa atatatgctt tgccaatctt
    121 taaattcaag caaagtggat ttttgcctg tataaaagtt aggatctaga tatattggtt
    181 tatagtcttt gtagggggag tttttcataa tataataaga ttcaaaaacc gctttggaat
    241 attcttgagt ataattgcct gtgggtttaa tat
//
LOCUS          DMACINML_84                271 bp    DNA        linear        16-DEC-2020
DEFINITION    Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS      .
SOURCE        Campylobacter species
  ORGANISM    Campylobacter species
              Unclassified.
COMMENT       Annotated using prokka 1.13 from
              https://github.com/tseemann/prokka.
FEATURES      Location/Qualifiers
  source      1..271
              /organism="Campylobacter species"
              /mol_type="genomic DNA"
              /strain="strain"
ORIGIN
    1 tattttaaagt cttaaatca ttaagaagtt ttaaataaag tcctaaattc atttttaa
    61 ctaaatccat gtattgattt tcaatatttt gaatcttttt ttcattggata taaaaatgat
    121 tacccttttt tataatccca ttccaatctt tcagggtgtaa aataataagg agcattagga
    181 tagccttgag gaggagtgag ggctgcgagt ttggcactta atactagggt atccatagtc
    241 agtttagcag atctctcatc tctttcgttt c
//
LOCUS          DMACINML_85                258 bp    DNA        linear        16-DEC-2020
DEFINITION    Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS      .
SOURCE        Campylobacter species
  ORGANISM    Campylobacter species
              Unclassified.
COMMENT       Annotated using prokka 1.13 from
              https://github.com/tseemann/prokka.
FEATURES      Location/Qualifiers
  source      1..258
              /organism="Campylobacter species"
              /mol_type="genomic DNA"
              /strain="strain"
ORIGIN
    1 ccgatgaagt acactttgga tacaatgcac tcagtagata tatcgatega gatggaaaaa
    61 ataaagaagt aatagagtat ttttttaaaa aaggatgcac atttgaaact tataatgaag
    121 aaagtggtag cactcctttg catgaatgga tactatgtgg cgaagaagtg aagtatttag
    181 aagaagcttt aaaactagga gcaaatccta atatgagaag tattaaaaca gaaaatgaat
    241 ttagcttttag tggtgcag
//
LOCUS          DMACINML_86                256 bp    DNA        linear        16-DEC-2020
DEFINITION    Campylobacter species strain strain.

```

```

ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT   Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..256
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"

ORIGIN
    1 ttaaattcta ctagagtgga tttctctcct gtataaaagt taggatctag atatattggt
    61 ttatagtctt tgtaggggga gtttttcata atataataag attcaaaaac cgctttggaa
    121 tattcttcgg tataattgcc tgtgggttta atatcttctt taaatagtat tttattggta
    181 tctttttcca catctaattg taaccatttg ggtgtataaa tctcataagt ttcgctcatt
    241 atttatcctt tgtaaa

//
LOCUS      DMACINML_87                256 bp    DNA        linear        16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT   Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..256
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"

ORIGIN
    1 ttatgatgaa gcagatgagg atgaatttga ggattggttt attaaaaatg tgctttatca
    61 tgatgattta agtgagattt ataaaatact aaaatcactt gttaaagatt aaaaactaaa
    121 tttacaaaga aagaaagaaa ggaaaaacaa tgaaaacatt agaagaatta atagctttag
    181 aagaaaaata tctaaaagaa ttatgttttag aattttatga tctttagtag gctaacaac
    241 ttgaagaagt taaga

//
LOCUS      DMACINML_88                255 bp    DNA        linear        16-DEC-2020
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT   Annotated using prokka 1.13 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..255

```



```
/organism="Campylobacter species"  
/mol_type="genomic DNA"  
/strain="strain"
```

ORIGIN

```
1 gaattaaaac agaaaatgaa tttagcttta gtggtgcagg agaaaccctt ttgcatagag  
61 ctgcaggaag taaagaaaag cctataggag cttgcgtgga agtgctaadc aaatatggag  
121 ctgatgtgaa tgcagttaat tgtggtatat gtgatattga agatgggaaa attgaatatt  
181 atgacctgc tactccattg gatgaagcta atacttacga tataaataaa aatataaaaa  
241 tcttaaaaaa agcag
```

//

```
LOCUS          DMACINML_89                255 bp    DNA        linear      16-DEC-2020
```

```
DEFINITION    Campylobacter species strain strain.
```

```
ACCESSION
```

```
VERSION
```

```
KEYWORDS      .
```

```
SOURCE        Campylobacter species
```

```
  ORGANISM    Campylobacter species
```

```
  Unclassified.
```

```
COMMENT       Annotated using prokka 1.13 from  
              https://github.com/tseemann/prokka.
```

```
FEATURES      Location/Qualifiers
```

```
  source      1..255
```

```
              /organism="Campylobacter species"
```

```
              /mol_type="genomic DNA"
```

```
              /strain="strain"
```

ORIGIN

```
1 gaattaaaac agaaaatgaa tttagcttta gtggtgcagg agaaaccctt ttgcatagag  
61 ctgcaggaag taaagaaaag cctataggag cttgcgtgga agtgctaadc aaatatggag  
121 ctgatgtaaa tgcagttaat tgtggtatat gtgatattga agatgggaaa attgaatatt  
181 atgacctgc tactccattg gatgaagcta atacttacga tataaataaa aatataaaaa  
241 tcttaaaaaa agcag
```

//

```
LOCUS          DMACINML_90                255 bp    DNA        linear      16-DEC-2020
```

```
DEFINITION    Campylobacter species strain strain.
```

```
ACCESSION
```

```
VERSION
```

```
KEYWORDS      .
```

```
SOURCE        Campylobacter species
```

```
  ORGANISM    Campylobacter species
```

```
  Unclassified.
```

```
COMMENT       Annotated using prokka 1.13 from  
              https://github.com/tseemann/prokka.
```

```
FEATURES      Location/Qualifiers
```

```
  source      1..255
```

```
              /organism="Campylobacter species"
```

```
              /mol_type="genomic DNA"
```

```
              /strain="strain"
```

```
  gene        complement(74..238)
```

```
              /locus_tag="DMACINML_01858"
```

```
  CDS         complement(74..238)
```

```
              /locus_tag="DMACINML_01858"
```

```
              /inference="ab initio prediction:Prodigal:2.6"
```

```
              /codon_start=1
```

```
              /transl_table=11
```

/product="hypothetical protein"
/protein_id="Prokka:DMACINML_01858"
/translation="MDEANTYDINKNIKILKKAGAKTWEELVEEYNIIDTSLEEPEQIK
MYEERRKDKK"

ORIGIN

1 tttgtgtcta aaaatgcttt gaaattatct aagctttcta aaatatctgt gttaaaatcc
61 ataatttttc cttttatttt ttatcttttc ttctttcttc atacatttta atttgttctg
121 gttcttccaa gcttgatcgc atattgtatt cttcaaccaa ttcttcccaa gtcttagctc
181 ctgctttttt taagattttt atatttttat ttatatcgta agtattagct tcatccaatg
241 gagtagcagg atcat

//

LOCUS DMACINML_91 255 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..255

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

1 ctctaatagc taaaatataa ttgatatagc catattcact ggtatagctt ttttctttag
61 ttttactatc aatttgtttt cttttttctc caaataaagt agcagaaaaa cctgaatttg
121 tattagggca atgttttaat aatcatagc gagaaaagaa ttgttttagct tggagtgggg
181 agaagtcgcc atcaaataag gaattatatt ccatattgag aatgtcggtg taggtagctt
241 tggcattttg cactt

//

LOCUS DMACINML_92 255 bp DNA linear 16-DEC-2020

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.13 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..255

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

1 tctttaactt cttcaagttt gttagcctct acaagatcat aaaattctaa acataattct
61 ttttagatatt tttcttctaa agctattaat tcttctaag ttttcattgt ttttcctttc
121 tttctttata aatttagttt ttaatcttta acaagtgatt ttagtatttt ataaatctca
181 cttaaactat catgataaag cacattttta ataaaccaat cctcaaattc atcctcatct
241 gcttcatcat aaggt

//