

>>BfR-CA-15822_min_cov_30 putative plasmid location

LOCUS DODKMMJL_1 12696 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
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LOCUS DODKMMJL_2 5506 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

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LOCUS      DODKMMJL_3                5277 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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ORIGIN

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ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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ORIGIN

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2221 agattatgta gaacttgcat gggctagtta tttttatttt aatttttaaa aaagtagaaa
2281 atttactaaa aatattaaaa aggaaaaata atgggtgtat ttcgtaagtt ttatattggt
2341 tgggtagtat tttgtataag tggatttgct atttctcctg ctgtagggca taatccaaat
2401 agagtgtatg aattttttgt aatgctaggt tggattattt tccctttaat tctattaatg
2461 cttatcgcct tttttctct ttgtgaaata aagtttttat atatagcatt gctattgtta
2521 ctttattatc ctatagcttt gatattgtat tacatgtttt attatcataa tagtttttat
2581 gttacattat atattttttt atcattattt aaataaagga taattttgaa agaaaaaatc
2641 aataagctaa gagattatgc agagcttgca tgggctagtt atttttattt tgatttaaaa
2701 ggttatatat tacaagaaaa tgaactatc gttactttaa gtgagcttgt aagtttaagt
2761 tataacggaa aatagctgg aaaaaaagaa aaagtcagac aagaatatag ttttattggc
2821 aaaggtgaat taaatggaga atttggagaa ttacaagcta gaaatttctc tcaaagatat
2881 gagattaaat tccatcaagc caacacttta agtgggtttta gtgctacttt gttttatgat
2941 aaagaaaaag ataaatttgt tgtaggaatt agagggactg aagtttcttt taaagattta
3001 aaagcgacat gggaaactgc ttttagatgta acccaagact tggttttatc cctcaatggc
3061 aatctccaat cttctcctct tttagaattt ttagaacaag tagataaaat catcaaaaat
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3181 ttgatataat gcgatattaa atataaagat aaactatctt ttagccctaa tgaagtttat
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3301 actataaaaa ttatgcaaga tcttttagga aaatatacta tagatgtttc agaaaaaatc
3361 actcatattt atgataatgg tggagttgaa atcattgctt cagctcaata tgggtgcaagc
3421 aatgccttag atatatatac agggaaaaat gatcactcta taaaacctct tgttaatact
3481 ctctattttt attccttatct ttttagagctt aaggaaaaat aagataaaat aataaaaaat
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3601 acagaaactt ttgtgttaaa aaataatgat attaataata aaaattttgc tcgtaaaaat
3661 ggacctcttg ggcttttttag aagctcccca gaaaaaatca atcattttga atactttctt
3721 tcattaatag ccaccataat gcaagaaacc aatgatattt tagaagagct tggagataat
3781 tattatacaa actacaaagc tcctaccatt agtcaaacaa aatcataga ttttatttta
3841 aaggtgcaag aaaaagaaaa atatat tttta atctttgata aaaatgattt taataaatac
3901 agaaaagatt gttcctttat taataatcaa gaaaatttag ctcataaaat tgccattggg
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4141 aaaataggta ttatttagga aaattatgac aggtagagac tttttatatt ctattcataa
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4321 ctatcaagct tatactctcc taaactccac cctacttaca ggctccaccg aacttcctaa

4381 taatcctttt tactttggaa aattagatca agataatact ataaaacaag atatacccag
4441 ttattatttt tctcctaaag atgaaagcag tggtttagga a

//

LOCUS DODKMMJL_5 1234 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1234
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

1 cttacaggct ccaccgaact tcctaataat cttttttact ttggaaaatt agatcaagat
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121 ttaggaaaac ttagcatcctt ttataaaaat gatgagcttt gcttgcttaa ttattttata
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241 gatttaattt caaaccttt taaaactcaa aaaaccacac aagtagatac aaaacaaagc
301 atagccaaac ttcacgctct tttagaaaat caaaacctag aatgtatcca tggaggcaaa
361 gtcatactta aatcaaaaca aggaaaatcc tttaaaagtg atggtatccc tataatgcta
421 gaaagtgatt tattaaactc tagtatagta gcttgccta ataccatagc aaatgtaagt
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661 ttaggagaac aaagtaaaaa tcaaataagag ttaaaagaac ctataataag acttcattat
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1081 aaagaattaa acgaatatca ttttaactttt ttagctcctg caaaaatgaa aaatttataa
1141 cttcaaactg cacaaggatt agataaaatc ttagaagatg aagatagaaa acaagagctt
1201 tatgtttgta aatttgtggt ggtaaattggg gttta

//

LOCUS DODKMMJL_6 654 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..654
/organism="Campylobacter species"

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

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121 ctaaattagt aaaagattta gctaaaacta tacagcctga tgaatttggg atgctacctt
181 ttatagatga gattatggga gtagattggg tgattgattt aaatcgatat aaatttgctc
241 ttgatgaaga aggtagaatc atttgggctt tatatgatga tattgaaaaa ggtaaattaa
301 aagatccaag agatgtggat tctactcctg aaagcaggaa agaatttgat cattatatgg
361 atggatataa aatggaatg gaaactagat tcgatgctga tattccaaat gattgggggtg
421 atcgacaagc cactttattc aaagataccc tagtattaag tgccaaactc gcagccctca
481 ctctcctca aggttatcct aatgctcaa gatactatag ccctgaaaga ctagaaatta
541 tttataaaaag acataagctt gataaactcc ttgatccaag aatccctgct atttatagat
601 ataatttccc aagagaactt agagctaaga tactcaaatt tgctgaagaa aatg
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//

>>BfR-CA-15829_min_cov_30 putative plasmid location

LOCUS FAFJHLOP_1 3230 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..3230

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

gene complement(443..1720)

/gene="trxB_1"
/locus_tag="FAFJHLOP_00001"

CDS complement(443..1720)

/gene="trxB_1"
/locus_tag="FAFJHLOP_00001"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86610.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:FAFJHLOP_00001"
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KAYYKSLKTKRERYKYLVRISGIRSTVIDIPYDAYANVDEKGNLINEDYKELYKEVEA
NRGLAHLSDGYLFMGEWELAAGILGDIKGFIGALQLSMTGFKARTQAVNFLLIQLGHE
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LTEYEFADDADGKAIRSLDDDLVKGKLDPRDIDSTPESRREFNREMWAYRRGSVAFY

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NTDIPNDWTNQEAKLYIDSLILESKLAVLTPPQGYPNAPYYWVPEHLEYVYKHKHLDK
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          /gene="trxB_2"
          /locus_tag="FAFJHLOP_00002"
CDS       complement(1792..3069)
          /gene="trxB_2"
          /locus_tag="FAFJHLOP_00002"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:CKG86610.1"
          /codon_start=1
          /transl_table=11
          /product="thioredoxin reductase"
          /protein_id="Prokka:FAFJHLOP_00002"
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KAYYKSLKTKRERYKYLIIRSGIRSTVIDIPYEAYCNVDEKGNLINKDYKELYKEVEA
NRGMANMHKGWLFMAEWELAAGILGDIKGFVQALQLSMTGFKARTQAINFLLIQLGHE
QGFKSLYDSYAYRDLTDGIHKNSLKAQMLKDFAKNPPYDEFGLPFLDELIGVDWVID
VNKYQFAYDEKGRVNDALKDDVEKGILKDPRIDSTPESRWEFDKEMDAYKNGMRTRF
DGDNPNHWSKEQVERFNDTLILCAKLAALTPPQGYPNAPYYSPERLEFIYKHKHLDR
LEDPRIPAIYRYNFPRELRAKILKFGEENGIKD"

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ORIGIN

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1  atatttatat ctttctcttt tagtttttaa agatttataa taagcttttt ctgcttttagt
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181 atctttgtag ggggagtttt ccatgatctt ccaagctttg aagagggcct tggaaatggtg
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541 ggagtttatc aagcttatgt tttttgtaa catattctaa atgttctgga acccaataat
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661 gagaatctat atatagtttc gcttcttgat tagtccaatc attgggaata tccgtattgt
721 aaaatgcaac agaacctcta cgatatgcc acatttcacg attaaactct cttctactct
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901 cccaatccac ccccataagc tcataaaga aaggtagcat tccaaattca tcataaggag
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1021 ttaaacctct atatgcataa gaatcataaa gactttttaa accttgttca tgtcctagtt
1081 gtatgagtaa aaaatttact gcttgggttc ttgctttaa tcctgtcata gaaagttgta
1141 aggctcctat aaatcctttt atatctccta gtatccctgc tgctaattcc cattcaccca
1201 taaataaata tccatcactt aaatgagcta agcctctatt agcttctact tctttgtaa
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1681 tggaaccatg tgggtgataa atctcataag tatcactcat cttttatcct ttctttaatt
1741 aacctatatg caaacctttt ttcataatga tagtagtggc ttgtaattac tttaatcttt
1801 aatgccattt tcttcgcaa atttgagtat cttagctcta agttcccttg gaaattata

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1861 tctataaata gcagggattc ttggatcttc taatctatca agcttgtggt ttttgtaa
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1981 tagggctgcg agtttggcac ataaaatcaa agtatacatta aatctctcta cttgctcttt
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//

LOCUS FAFJHLOP_2 1016 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1016

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene complement(447..944)

/gene="trxB_3"

/locus_tag="FAFJHLOP_00003"

CDS complement(447..944)

/gene="trxB_3"

/locus_tag="FAFJHLOP_00003"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG87041.1"

/codon_start=1

/transl_table=11

/product="thioredoxin reductase"

/protein_id="Prokka:FAFJHLOP_00003"

/translation="MLPFIDEIMGVDWVIDLNRYKFALDEEGRIIWALYDDIEKGLK

DPRDVDSTPESRKEFDHYMDGYKNGMVTRFDVDIRNERDERSAKLTMDTLVLSAKLAA

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NGIKD"

ORIGIN

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1 cacttcttat aattaaatat ttatatcttt ctcttttggg ttttaaagat ttataataag
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121 tttgccattc tttaaattca agtaaagtag aagcttgccc tgtataaaag ttaggatcta
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901 atcacccaat ctactccat aatctcatct ataaaaggta gcataccaaa ttcacaggc
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//

LOCUS FAFJHLOP_3 958 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

1..958

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(383..952)

/gene="trxB_4"

/locus_tag="FAFJHLOP_00004"

CDS

complement(383..952)

/gene="trxB_4"

/locus_tag="FAFJHLOP_00004"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG86288.1"

/codon_start=1

/transl_table=11

/product="thioredoxin reductase"

/protein_id="Prokka:FAFJHLOP_00004"

/translation="MHKNPLREQQIKTLAKTLKPDEFGLMPFIDEIMGVDWVIDLNKY
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RIPAIYRYNFPRELRAKILKFGENGINE"

ORIGIN

```

1 ctttagtcca aggagctatg cttcctttaa tgggatcttt taaatatatg ctttgccaat
61 ctttaaattc aagcaaagtg gatttttgcc ctgtgtgaaa ttcaggatct agatacctag

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121 gttgatagtc tttgtagggg gagttttggt tgatattgtg tgcttcaaaa agggctctag
181 aatattcttg ggtgtatttg cctaccttag ctccccatc acttaataaa attttattcg
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301 tcttttatcc tttcttaatt tatcccatat ataaaccatc ttccatgatt atagtagtgg
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661 agccttgag catgccattt ttatatccac ctctatggcg atcaaattcc cttctgcttt
721 cataagtaga atctatatcc cttggatctt ttatcttgcc ctcaaccaca tcaattctta
781 aggctttata catacttcca aattgatcac tagctatata atatttattt aaatcaatca
841 cccaatctac tcccataatc tcatctataa aaggaagcat accaaattca tcagggtttta
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//

LOCUS FAFJHLOP_4 874 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source 1..874
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene 7..570
/gene="trxB_5"
/locus_tag="FAFJHLOP_00005"

CDS 7..570
/gene="trxB_5"
/locus_tag="FAFJHLOP_00005"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86288.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:FAFJHLOP_00005"
/translation="MHKNPLREQQIKTLAKTLKPDEFGLPFIDEIMGVDWVIDYNEY
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PAIYRYNFPRELRAKILKFGEENGIKE"

ORIGIN

```

1 gtaggagtgc ataaaaatcc ttttaagagag caacaaatta aaaccttagc taagacttta
61 aaacctgatg aatttggtat gcttcctttt atagatgaga ttatgggagt agattgggtg
121 attgattata acgaatatca aatttctgaa gatgaatttg gggatatata taaagcctta
181 agaagtgatg tagttgaggg caagataaaa gatccaaggg atatagattc tacttatgaa
241 agtagaaggg agtttgatta ttatatggat ggttattcta atggcatgat taatgcctat
301 ggttatgata ttccaaatga ttggaatgat gcgcaattaa aaatagattc tatgatatta
361 actgccaac tcgcagccct cactcctcca caaggttatc ctaatgcacc ttattatatt

```



```
421 acccctgaaa aactagaatg gtattataaa agacataagc ttgataaact ctttgatcca
481 agaatccctg ctatttatag atataatttc ccaagggaac ttagagctaa gatactcaaa
541 tttggcgaag aaaatggcat taaagaataa agtaattaca taggcagatt agccactact
601 ataatcatgg aagatggttt atatatggga taaattaaga aaggataaaa gatgagttaa
661 acctatgaaa tttatacacc taatgggtatt attttagatg tagaaaaaga aacgaataaa
721 attttattaa gtgatggggg agctaaggta ggcaaataca cccaagaata ttctaaagct
781 ttgtttgaag ccgatagaat tttagaacc tctccttata ttaattatca acctaggtat
841 ctagatcctg aatttcacac agggcaaaaa tcca
```

//

LOCUS FAFJHLOP_5 702 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..702
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 tataggcgta ttcttcattg attaaatatt ctttttcatt tacattacaa taagcatcat
61 aaggatattc tataacagtg cttcttatac cacttctaact cactagatat ttatatcttt
121 ctcttttggt ttttaaagat ttataataag ctttttctgc ttttagtcaa ggagctatag
181 ctcttttgat aggatctttt aaataaatgt tttgccattc tttaaattct actagagtgg
241 atttttgccc tgtataaaag ttaggatcta gatataattg tttatagtct ttgtaggggg
301 agtttttcat aatataataa gattcaaaaa ccgctttgga atattcttcg gtataattgc
361 ctgtggggtt aatattttct ttaaataagta ttttattggt atctttttcc acatctaatt
421 ttaatccatt gggtgtataa atctcataag tttcgctcat tttttatcct ttcttaattt
481 aacctatata taaaccatct tctatgatta tagtagtggc tagtctacct atgcaattac
541 tttattcttt aatgccattt tcttcgcaa atttgagtat cttagctcta agttcccttg
601 ggaaattata tctataaata gcagggattc ttggatcaag gagtttatct aaatatcctc
661 ttttataaat ccattccaat ctttcaggtg taaaataata ag
```

//

LOCUS FAFJHLOP_6 664 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..664
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```

1 aatcaatcac ccaatctact cccataatct catctataaa aggaagcata ccaaattcat
61 caggttttta agtcttagct aaggttttta tttgttgctc tcttaaagga tttttatgca
121 ctctactaa accacttctt actgcaatat ctgcataacc ataaatagca cccaataaat
181 taggtttatc tagtatacta cttcctccac ttaattgtat ataaagtata gttgcttgga
241 taaatcttgc attaaaacca ttttgagaca tatcgttagc tagatattta taatcaccca
301 gtattcctgc tgccataccc cattcattat gaaataaact tgatcttaga ttatgtttat
361 tatcatctac tgttctatat aattcttcat acttaggac tacatttctt ttttcatcta
421 cagctcctat ggcttcataa ggtatatcta taacaacact tcttatacca cttcttataa
481 ctatagatatt atatctttct cttttgggtt ttaaagattt ataataagct ttttctgctt
541 tagtccaagg agctatgctt ctttaaatgg gatcttttaa atatatgctt tgccaatctt
601 taaattcaag caaagtggat ttttgcctg tgtgaaattc aggatctaga tacctaggtt
661 gata

```

//

LOCUS FAFJHLOP_7 634 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..634
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```

1 gaactttcta ataatccttt ttactttgga gaattagatc aagataatct tataaaacaa
61 gatataccca gttattatth ttctcctaaa gatgaaagca gtggtttagg aagacttagt
121 atcttttata aaaacgatga actttgcttg cttattatt ctatattaga aaattcttta
181 aatatcaaat tagaatgctt aagcaagcaa agcttagaat acaaagattt aatttcaaac
241 actctaaaag acaaaaaaac cacacaagta gataaaaaac aaagcatagc taaacttcac
301 gctcttttag aaaatcaaaa cctagaatgt atccatggag gtaaagtcac acttaaatca
361 acaaaggaa aatcctttta aagtgatggt atccctataa tgctagaaag tgatttatta
421 aactctagta tagtagcttg tcctcacacc atagcaaagtg taagttatcc ttgtactaaa
481 gtcgttaatg taaaaggctc cttatctcaa aagaaagtaa ataataagatt tgtaacttta
541 caagaactca tctcagcttg cactacagat aaaggctttg ctttaaaagt aagctttact
601 ccaagtaagt ttaaatttga tcacagcttt gatc

```

//

LOCUS FAFJHLOP_8 607 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..607
/organism="Campylobacter species"

```

        /mol_type="genomic DNA"
        /strain="strain"
gene     complement(209..385)
        /locus_tag="FAFJHLOP_00006"
CDS      complement(209..385)
        /locus_tag="FAFJHLOP_00006"
        /inference="ab initio prediction:Prodigal:002006"
        /codon_start=1
        /transl_table=11
        /product="hypothetical protein"
        /protein_id="Prokka:FAFJHLOP_00006"
        /translation="MSKKFIA*VLALNPVMESCKAPINPFISPSIPAANSHSAIKSQP
LCILAIPLLASTSL"

```

ORIGIN

```

1  tatatttaa agatcctatc aaaggagcta tagctccttg gactaaagca gaaaaagctt
61 attataaatc tttaaaaact aaaagagaaa gatataaata ttttaattata agaagtggac
121 ttagaagcac tgttatagat ataccttatg atgcttattg taatgtagat gaaaaaggaa
181 atttaaatcaa taaagactat aaagaacttt acaaagaagt agaagctaag agaggatg
241 ctaatatgca taaaggttgg ctctttatgg ctgaatggga attagcagca ggaatactag
301 gagatataaa aggatttata ggagccttac aactttccat gacaggattt aaagcaagaa
361 ctcaagcaat aaatTTTTTTA ctcatacaac taggacatga acaaggTTTTT aaaagtcttt
421 atgattctta tgcatataga ggtttaacag atggtataga caaaaactct cttaaagctc
481 aaatgctaaa agactttgct aaaaatcctc cttatgatga atttggaatg ctacctttct
541 tagatgagct tataggagtg gattgggtga ttgattttaa tgaatatcaa tttgcttatg
601 atggtga

```

//

LOCUS FAFJHLOP_9 592 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

```

source      1..592
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
gene        complement(48..590)
            /gene="trxB_6"
            /locus_tag="FAFJHLOP_00007"
CDS         complement(48..590)
            /gene="trxB_6"
            /locus_tag="FAFJHLOP_00007"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG86288.1"
            /codon_start=1
            /transl_table=11
            /product="thioredoxin reductase"
            /protein_id="Prokka:FAFJHLOP_00007"
            /translation="MLKDFAKNPPYDEFGMLPFLDELIGVDWIDLNEYQFAYDGDGG

```

SVKALDEKVRQGKLDPRDSDSTPESRKEFDEEANAYTFGNRMNFSSDIRDSRSKESA
RLFDDLLILHAKLAALTPPQGYPNAPYYFSPEQLEDFYKRQVLDKLDPRIPAIYRYN
FPRELRAKILKFGREENSIKD"

ORIGIN

```
1 ccatttttca tgattatagt ggtggctagt ctgcctatga ggttacttta atctttaatg
61 ctattttctt cgccaaattt tagtatctta gctctaagtt cccttgggaa attatatcta
121 taaatagcag ggattccttg atcaagttaa gcgtctaaaa cttgtctttt gtaaaaatct
181 tctaattggt caggactaaa ataataaggt gcattaggat agccttgagg aggagtgagg
241 gctgcgagtt tggcatgaag tatcaaaagg tcatcaaata atctagccga ttctttactt
301 ctactatcgc gaatatcaga ggaaaaattc attctattac caaaagtata agcattagct
361 tcttcatcga attctttcct gctctctgga gtagaatcta catctcttgg atcttttaat
421 ttaccttgtc ttactttctc atctaaagcc ttaacactac cgccatcacc atcataagca
481 aattgatatt cattcaaac aatcaccaa tccactccta taagctcatc taagaaaggt
541 agcattcaa attcatcata aggaggattt ttagcaaagt cttttagcat tt
```

//

LOCUS FAFJHLOP_10 554 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers
source 1..554
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 taaaaatcct ttaagagagc aacaaattaa aaccttagct aagactttta aacctgatga
61 atttggtagt cttcctttta tagatgagat tatgggagta gattgggtga ttgatttaaa
121 taaatataga ttagctaatg atgaatttgg aaaaatatac aaagccttaa gaagtgatgt
181 agttgagggc aagataaaag atccaaggga tatagattct acttatgaaa gcagaaggga
241 gtttgatcgt tatagagttg gatatagaaa gggtagggcg caaggctatg gaaccgatac
301 acccaatgat tggagcgaag aagaagcaca actttttaat gatactttta tacttcatgc
361 caaactcgca gccctcactc ctcctcaagg ctatcctaata gcaccttatt attttaccac
421 tgaaaatcta gaatggtatt ataaaagaca taagcttgat aaactccttg atccaagaat
481 ccctgctatt tatagatata atttccaag ggaacttaga gctaagatac tcaaatgtg
541 cgaagaaaat ggca
```

//

LOCUS FAFJHLOP_11 535 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers
source 1..535

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

ORIGIN

```
1 atacataaaa atcctttaag ggctaaatta gtaaaagatt tagctaaaac tatacagcct  
61 gatgaatttg gtatgctacc ttttatagat gagattatgg gagtagattg ggtgattgat  
121 ttaaatacagt atcaatttgc gtatgacggt aaaggtgatt ctacttgggc tttatatgat  
181 gatattgaaa aaggtaaatt aaaagatcca agagatgtgg attctactcc tgaaagcagg  
241 aaagaatttg atgaagaaac tgacgtttat agatttggtg acagaatgaa ttttgctct  
301 gatattcgtg atagtagaag tgaagaatca actagattat ttgatgatac ttttaatactt  
361 catgccaaac tcgcagccct cactcctcca caaggctatc ctaatgcccc ttattatatt  
421 acacctgaaa gattggaatg gatttataaa agaggatatt tagataaact ctttgatcca  
481 agaatccctg ctatttatag atataatttc ccaagggaac ttagagctaa gatac
```

//

>>BfR-CA-15831_min_cov_30 putative plasmid location

LOCUS EDCPFOPP_1 2138 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..2138

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

345..647

/locus_tag="EDCPFOPP_00001"

CDS

345..647

/locus_tag="EDCPFOPP_00001"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:EDCPFOPP_00001"

/translation="MILCIFSSNFSSKYFSLASCFNSSSSSPKIKSLKKPATSVPTT
APTTVPTIGKLEPTAAPVAAPAAIRESMDTPALAAILDATLELAILVAALEATLLV"

gene

714..932

/locus_tag="EDCPFOPP_00002"

CDS

714..932

/locus_tag="EDCPFOPP_00002"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:EDCPFOPP_00002"

/translation="MIIVILTPTLVSVKALTLDFPSALARKKFNIPKFIILECIILA
ICELSSMPNFTISFSKALVAKPSVMPKA"

gene

complement(1026..1664)

```

CDS      /locus_tag="EDCPFOPP_00003"
         complement(1026..1664)
         /locus_tag="EDCPFOPP_00003"
         /inference="ab initio prediction:Prodigal:002006"
         /codon_start=1
         /transl_table=11
         /product="hypothetical protein"
         /protein_id="Prokka:EDCPFOPP_00003"
         /translation="MSEINNTEIKEQDTQDEIIWEGKKHIPSFLLFWITYIVLLCFA
LYLFPRLFNPSKEIDYKWFIVFFTFLLVIYALAQKIYRMANIKRIYITKEKLVIEYYI
KNDLVFPLGTFVYYRRLSFVLTPGHIVIYTFGDKVKEYLEPGLFSDGDDPTKDCFER
INAIKPHVMPYLLSLSDEEFEKIIFHVSGFSEIDTTFLEAMELRKEKKDE"
gene     complement(1715..2107)
         /locus_tag="EDCPFOPP_00004"
CDS      complement(1715..2107)
         /locus_tag="EDCPFOPP_00004"
         /inference="ab initio prediction:Prodigal:002006"
         /codon_start=1
         /transl_table=11
         /product="hypothetical protein"
         /protein_id="Prokka:EDCPFOPP_00004"
         /translation="MANIKRIYITKEKLVIEYYIKNDLVFPLGTFVYYRKISYSLSP
GHIVIYTFGDKVKEYLEPSLFSDDPTKGCFERINAIKPHVMPYLLSLSDEEFEKI
FFHVNATSKIDTTFLEAMELRKEKKDE"

```

ORIGIN

```

1  attcatcctc atctgcttca tcataaggta tgccagtatc ttcttcaaaa gcaacttcat
61  agttttctgg atctaaatta tcatcgcac cttccataaa atcatctata taatntttta
121 ctgccttatt agctatgggt tgtattctga ttatagttgg attttttctc tgagcttctt
181 tataactttg ctcatcttta tctaaataat aaggaaaact tagcatcaaa agaatggttt
241 taaaataagc actattaata tcacttattt ctttacaag cttttctgct tcatcttcat
301 ttaacactct taattctata tactgatgag tgatgagata attgatgatt ttatgcattt
361 tttcatctaa tttttctctt aaatattttt ctttggcttc ttgttttttt aattcctcat
421 cttcatcgcc aaaaattaag tcattaataa aacctgctac aagtgttccc accactgcac
481 ccaccactgt cccaacaata ggaaagctcg agcctacagc tgctccagtt gctgcacctg
541 cggcaatacg agaaagtatg gatacgccag ctctagctgc gatattagat gctactcttg
601 agctagctat cttggttgcg gcattagaag caaccctgct ggtttgagtt aaggtttggt
661 tggcaacatg ttcgctacct ttttctattg ttgctccaat aggagtttca ttcattgatta
721 tagtgatact aacaccaacg cttgtttcag tcaaagctct tacattggat tttccctctg
781 ctttagccag aaaaaaattc aatattccaa aattcattat tatttttagaa tgcatcattc
841 tcgcaatatg cgaattatct tctatgcaa acttcactat ttctttttca aaagctttag
901 tagcaaaacc ttctgtaatg cctaaggcat aaggagcaac atctccaaat actcctaaat
961 cccttttatc actaggagtg ctttgagttt cttttagaata aaactctaaa cttccataaa
1021 tattttcatt catctttttt ctcttttctg agttccattg cttctttaag gaaagtagta
1081 tcaatttcgc taaaaccgct tacatggaaa atgatttttt caaattcttc atcacttaag
1141 cttaataaat aaggcattac atgaggtttt ataatggcat taattctttc aaaacaatct
1201 tttgttggat catcgccatc actgaataaa ccaggttcaa ggtattcttt gactttatct
1261 ccgaaggtgt atatcactat atgtcctgga gtaagcacia atgacaggcg acgataatac
1321 acaaaaaaag ttcctaaagg aaaaaccaa tcatTTTTga tataatactc aatcacaagt
1381 ttttcttttg tgatataaat tcttttaata tttgccattc tatagatctt ttgtgcaagt
1441 gcatatataa ctaaaagaaa tgtaaaaaaa actataaacc atttataatc tatttctttg
1501 ctaggattaa ataacttagg aaacaaataa agcgcaaaac ataaaagcac aatatatggt
1561 atccaaaaaa gcaaaaacga aggtatatgc ttttttctt cccaaatgat ttcattcttg
1621 gtgtcttgct ctttgatttc tgtgttattg tttatttcac tcatttttat cttttaaata
1681 agttttaatc tcttgatatat aaaataaaat attttcattc atcttttttc tcttttctga

```

```
1741 gttccattgc ttctttaagg aaagtggat caatcttact agtagcgttt acatggaaaa
1801 agatcttttc aaattcttca tcacttaagc ttaataaata aggcattaca tgaggcttta
1861 taatggcatt aattctttca aaacaacctt ttgttggatc atcgccatca ctgaataaac
1921 taggttcaag gtattctttg actttatctc cgaagggtga tatcactata tgccttggag
1981 aaagtgaata tgaattttta cgataatata caaaaaaagt tcctaaagga aaaaccaaat
2041 cttttttgat ataatactca atcacaagtt tttcttttgt gatataaatt cttttaatat
2101 ttgccatttt atagatcgct cgtgcaaatg catatatg
```

//

LOCUS EDCPFOPP_2 863 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..863

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(125..670)

/gene="tssI1"

/locus_tag="EDCPFOPP_00005"

CDS

complement(125..670)

/gene="tssI1"

/locus_tag="EDCPFOPP_00005"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:A0H52008.1"

/codon_start=1

/transl_table=11

/product="type VI secretion system, secreted protein"

/protein_id="Prokka:EDCPFOPP_00005"

/translation="MGGEYLTNVGLSKDTIVGLSNTLNVGVNDKVKRIAKNSHEFVGEN

KDIEIGANQNTIIHKDEIRNVKGENKLLIEKSLTQTIEKEFFLNHVQNLSAHIQDNTS

LKSNSMQTKIEEQYSLESENSTDFDQDCGVKAGNQILHQVGDQTIVTKKDCVVIKAG

GVEVIIDSNGLVVKGGEVKAE"

ORIGIN

```
1 caatatatgt tatccaaaa agcaaaaacg aaggatatg cttttttcct tcccaaatga
61 tttcatcttg ggtgtcttgc tctttgattt ctgtgttatt gtttatttca ctcattttta
121 tcctttactc tgccttaacc tctccacctt taaccacaag tccattagag tctataatca
181 cttctactcc acctgcttta attataacac aatctttctt ggtaacaatt tgagtatcac
241 ctacttgatg gaggatttga ttgcctgctt ttactccaca atctgtttga aagtcaaaag
301 tagaattttc tgattctaaa gaatattgct cttctatctt tgtttgcatg gaattagact
361 ttaaagatgt gttatcttgt atatgggctg ataaattttg atgaacatta aggaaaaatt
421 ctttttctat tgtttgggtt aaagattttt ctattaataa tttattttct cccttcacat
481 tccttatctc atctttatgg ataatagtat tttgatttgc acctatttct atatctttgt
541 tttctcctac aaactcatga gagtttttag ctattcttac tttattatct actcctacat
601 ttaaagtatt gcttaatcct actatagtggt ctttagataa acctacatta gttaagtatt
661 ctctcccac attgacattt ttagctaagt ctatggtttg agtatgaacc tttttaatcc
721 tttcattata aattccatct accctagaat ctttatcatt taaaattctt tgagtgaaat
781 tatgctggac taattcatca taatcctttt gggcttttaa ataaatttgt tctttatctt
```

841 ttatatttga gagggtaagt tca

//

>>BfR-CA-15837_min_cov_30 putative plasmid location

LOCUS FDNNOFDK_1 3982 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
FEATURES Location/Qualifiers
source 1..3982
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene 49..1071
/locus_tag="FDNNOFDK_00001"
CDS 49..1071
/locus_tag="FDNNOFDK_00001"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:APB38683.1"
/codon_start=1
/transl_table=11
/product="replication initiation protein"
/protein_id="Prokka:FDNNOFDK_00001"
/translation="MSDIVKYHNDFNKIQLPSFTEIEQDLLCGLMVKLKEEKGVTFY
PWDLRNILKSSYDNNSLMEFASSLKRKFFKADFTIIEKTTRGEKEVEAHKTINLFTEF
AIYVYASSKDLESIEIQVNPQFEYILNQLTANFTAFELSEFIALSGKYTKTLRLLKQ
YRTTGKARFEWEEFCRVMDIPQDYRQSAIDKWILKPAIKELSKERNLFDQVRVPFKNL
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CDS 1974..3302
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ORIGIN

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>>BfR-CA-15838_min_cov_30 putative plasmid location

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LOCUS      OIDGCHHC_1                37091 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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gene 8971..9414
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gene complement(9914..11008)
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gene complement(11627..12340)
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/codon_start=1
/transl_table=11
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/protein_id="Prokka:OIDGCHHC_00014"
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EILESKKNQEMFARYRKKK"
gene complement(12375..12938)
/locus_tag="OIDGCHHC_00015"
CDS complement(12375..12938)
/locus_tag="OIDGCHHC_00015"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
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/protein_id="Prokka:OIDGCHHC_00015"
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SKMNNDEL IKKISNFISNIWQVHPFTE"
gene complement(12958..13173)
/locus_tag="OIDGCHHC_00016"

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CDS complement(12958..13173)
 /locus_tag="OIDGCHHC_00016"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
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 LKEHCEKNHTSMGKLIKDLLKEKKLIN"

gene complement(13200..13403)
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CDS complement(13200..13403)
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 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
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gene 13914..14108
 /locus_tag="OIDGCHHC_00018"

CDS 13914..14108
 /locus_tag="OIDGCHHC_00018"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
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 /translation="MNKDKKYLNFSEYYEVRDFLELYPEKDRENIENILMTIGENKKS
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gene complement(14122..14451)
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CDS complement(14122..14451)
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 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
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gene complement(14465..14914)
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CDS complement(14465..14914)
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gene PNNKIIARCDINYSQQAIFKHLGYQELSKKEKTNQYEFMILEKSI"
15124..15507
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CDS 15124..15507
/locus_tag="OIDGCHHC_00021"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
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/translation="MRKDKRIAIRLSEDEYKHIMQKAQNHLTISRRLRDLMSNYPIT
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gene 15470..17626
/locus_tag="OIDGCHHC_00022"

CDS 15470..17626
/locus_tag="OIDGCHHC_00022"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:ASI88299.1"
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/protein_id="Prokka:OIDGCHHC_00022"
/translation="MIIKKIPSKKQNKSSFKNLSNYILDKDNNNAKVLVDYMLDKNNE
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FKGELKGLGFSYKEIDSMDESVCIEIDGFIVNSANKEGLIAMNEEIKQTLIDDEEIK
RFEKFEHLFLNTNKITDIAKGFYTRKIDADEYIKRFSMQESKINKVANAISSMLSDKN
IDIMEKYAKKLEKDLKYQLKKEVIESNDINLNNF"

gene complement(17860..18411)
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CDS complement(17860..18411)
/locus_tag="OIDGCHHC_00023"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
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/translation="MIKQIFNKITKHFNLKSSIKLNIAEHKDIDFIMWCIDDGIKHG
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gene complement(18404..18799)
/locus_tag="OIDGCHHC_00024"

CDS complement(18404..18799)
/locus_tag="OIDGCHHC_00024"
/inference="ab initio prediction:Prodigal:002006"

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FLGTTSINIIGLGYIAMRWLFPNSYKKYD"
gene complement(18796..19266)
/locus_tag="OIDGCHHC_00025"
CDS complement(18796..19266)
/locus_tag="OIDGCHHC_00025"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:AVS36970.1"
/note="DUF4065 domain-containing protein"
/codon_start=1
/transl_table=11
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/protein_id="Prokka:OIDGCHHC_00025"
/translation="MEKNSKLYSSKAIANEFIRLAQKDNKTLTHMQLQKLIYFTHAVT
LVIFKRPLVKDGFQAWPFGPVNLELYLELQSGKNGIEKYIDLQYHNDIKDDRETME
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gene 19362..19490
/locus_tag="OIDGCHHC_00026"
CDS 19362..19490
/locus_tag="OIDGCHHC_00026"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
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/protein_id="Prokka:OIDGCHHC_00026"
/translation="MGLKPGPKRTAKSTGELDQRQRDNKNTPGNTSKLKPSKSSKK"
gene complement(19596..19820)
/locus_tag="OIDGCHHC_00027"
CDS complement(19596..19820)
/locus_tag="OIDGCHHC_00027"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
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/protein_id="Prokka:OIDGCHHC_00027"
/translation="MGFKLSSEAPKNENDFVNSARGETGNAKTGNAKRNKLMINFT
EEEYQILNQEASHMGLSLNSYVRFKIFRKD"
gene complement(19823..20509)
/locus_tag="OIDGCHHC_00028"
CDS complement(19823..20509)
/locus_tag="OIDGCHHC_00028"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:ASI88294.1"
/codon_start=1
/transl_table=11
/product="Plasmid partitioning protein ParA"
/protein_id="Prokka:OIDGCHHC_00028"
/translation="MIISVNEKGGSGKTTLAVNLSARLAEDGDNVLLIDADPQKSTE
VFSDMRSQSNLEPLFSNVSKTGVSLGDEIKRMKNAFDSIIIVDTGGRDSKEMRKAILSS

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gene complement(20601..20996)
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CDS complement(20601..20996)
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 /translation="MNKKELEEIIAKKHIIILDENDPILAVVSANEIIFDDFLEKIDL
 LFTKYKTDLESYKFNIFNEIREYSKSNQEALKDIITQVQANQNTIKPSQEKTEDTKEK
 KNTNINFWIIAIASQIIFLLVGLIIGIII"

gene complement(21062..21529)
 /locus_tag="OIDGCHHC_00030"

CDS complement(21062..21529)
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 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:OIDGCHHC_00030"
 /translation="MRKTIAIFAFSFAFISILSYLIFYFGGFHFNYTRSMPLGLYKEI
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 EGNLLEFKPKRKLKENELFVMGENIKSYDSRYFGVVNQLQNEVKVKVLMISF"

gene complement(21534..22196)
 /locus_tag="OIDGCHHC_00031"

CDS complement(21534..22196)
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 /inference="similar to AA sequence:RefSeq:ASI88290.1"
 /codon_start=1
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 /product="Cell filamentation protein"
 /protein_id="Prokka:OIDGCHHC_00031"
 /translation="MWDSQENLSEFDKFLIKTNKIGAKSLDELFRKERDITNAKALEL
 SKNPIKGNFDYQHLKNIHKYIFQDVFWAGKDRMEVGLHGNFGKYAPNGTITNFVPGK
 DLNATAQQIFTWLKEDNYLKNKDLNDFAKNLAEFARNLNALHPFREGNGRTQRIFLN
 ELAKNAGYKLDLNLIPKDKTIMASVEASQLKLGKLEAIIKTNLKSFRQNL DLEQNKGI
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gene complement(22196..22435)
 /locus_tag="OIDGCHHC_00032"

CDS complement(22196..22435)
 /locus_tag="OIDGCHHC_00032"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:OIDGCHHC_00032"
 /translation="MQKQYPEVHSLEESLAILQKYKDDL TKEQYEAIRSNIGNFAIED
 MFLNERNIIDNIKIIKGEATANEIITEYKKEWGIS"

gene complement(22526..23245)

CDS /locus_tag="OIDGCHHC_00033"
complement(22526..23245)
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/inference="similar to AA sequence:RefSeq:ASI88288.1"
/codon_start=1
/transl_table=11
/product="IncP-type DNA transfer protein TraL"
/protein_id="Prokka:OIDGCHHC_00033"
/translation="MAKIHVFLNGKGGIGKSFISLLCQYFLDKGESIVAIDTDPNNT
TLLNVKALKAKFLQLIDDDGKFDVRAFDFKIVELAFEKKAENYIIDS GATTFIPLIDYL
KENEVLDFTNNNLEVYMHVPIVGGQARDDTILGLTQLTEAFNC SFVWVINEYHGSII
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MSKQRLKIFKDKAFSQIGNIL"

gene complement(23256..25079)
/locus_tag="OIDGCHHC_00034"

CDS complement(23256..25079)
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/inference="similar to AA sequence:RefSeq:ASI88287.1"
/codon_start=1
/transl_table=11
/product="IncP-type DNA transfer coupling protein TraG"
/protein_id="Prokka:OIDGCHHC_00034"
/translation="MKKQTNQALVYILGLIGIFLFTTIISQIATQYLAKSFNYSPSLG
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SGKGVSLLLPTLLSWEESALIFDTKGELWALTAGWRQKYAKNKVLKLDPTCLDDSAVK
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ALHLKKYRGENTPNLTDIYKFINDPNQSIDELLEEMVECDISTMDKNTQEIIQSISRS
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ITTIVKKSITSSGKRTAVMLGNVSETIQEVQRPLITADECMRLPSAKKDKDDKIIAPG
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gene complement(25076..27289)
/locus_tag="OIDGCHHC_00035"

CDS complement(25076..27289)
/locus_tag="OIDGCHHC_00035"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:ASI88286.1"
/codon_start=1
/transl_table=11
/product="IncP-type DNA transfer primase TraC"
/protein_id="Prokka:OIDGCHHC_00035"
/translation="MKNKDFIQETADKIIESLKNGTAPWIKPWKGIDLANMPPYNPIT
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IEGQPI MDGKLHRVSVIGDKGREKSGAYVGF LNHPAGFVQNYKTGIKENWKSANSLE
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gene complement(27294..27434)
 /locus_tag="OIDGCHHC_00036"

CDS complement(27294..27434)
 /locus_tag="OIDGCHHC_00036"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:OIDGCHHC_00036"
 /translation="MKDFKELETIPNFSYEVDPLTAEELGAFKENALSEDDAKEGTED
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gene complement(27421..27783)
 /locus_tag="OIDGCHHC_00037"

CDS complement(27421..27783)
 /locus_tag="OIDGCHHC_00037"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:ASI88284.1"
 /codon_start=1
 /transl_table=11
 /product="Single-stranded DNA-binding protein"
 /protein_id="Prokka:OIDGCHHC_00037"
 /translation="MINNITIGGRLTADAELRHCNQGSIICTFTLANNRKYKEIENST
 YIEVSLFGSFANAMHPYLKKGISVDVVGELTQDTWEHEGKIYSKHKRIKAKEIDFRTPK
 KEKQTIPNIEEGENYEGF"

gene complement(27776..27877)
 /locus_tag="OIDGCHHC_00038"

CDS complement(27776..27877)
 /locus_tag="OIDGCHHC_00038"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:OIDGCHHC_00038"
 /translation="MENENLEENKPTQFDDNEPSLFDNLEDEEQDND"

gene complement(27880..28425)
 /locus_tag="OIDGCHHC_00039"

CDS complement(27880..28425)
 /locus_tag="OIDGCHHC_00039"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:ASI88282.1"
 /codon_start=1
 /transl_table=11
 /product="T-DNA transferring Peptidoglycan hydrolase
 VirB1"
 /protein_id="Prokka:OIDGCHHC_00039"
 /translation="MIDIALIEQCKNPVETQIIQKIIQVESNNQQFAININKVGSFI
 LKNKKEAENLANNFIKGGYSVDIGLMQFNNSNLSSTFSHYSVEDLLDTCCKNIKAGSD
 IFYLAYEMTNKLNKEDRINQALSIYNTGDLKKGFSNGYVAKYDSTAKTIDDLEEKAR
 KSDTRIKITYNLFNLQTQKKE"

gene complement(28418..29659)

CDS /locus_tag="OIDGCHHC_00040"
 complement(28418..29659)
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 /inference="similar to AA sequence:RefSeq:ASI88281.1"
 /codon_start=1
 /transl_table=11
 /product="Conjugative transfer protein TrbI"
 /protein_id="Prokka:OIDGCHHC_00040"
 /translation="MLEVNMSPNKFLPKNNKRLSKVPIIIIFAIIAIVLFSIFYVALS
 RKQNLERQTAQTTPKEETQIATNHNDLNLIDELQVQKAQENNIISPPMPNATQQPI
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 QAINFNPPNNNEDINLGAINPQNTGLGLESGTNKDVQGGQFLSQKKNGLKYVKQKP
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 SNIIYGQSRLLVAWNKLIFPNGDTLNLIDGMQGTSDGTYTFEDQVDNHYFRIFGSAFL
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 YKFNIFVTKDIILEPLELND"

gene complement(29663..30106)
 CDS /locus_tag="OIDGCHHC_00041"
 complement(29663..30106)
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 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
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 /protein_id="Prokka:OIDGCHHC_00041"
 /translation="MKILFLALIAFFITSCAKMNSDYFNSSFAVEETKINYNKIADDF
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gene complement(30103..31257)
 CDS /locus_tag="OIDGCHHC_00042"
 complement(30103..31257)
 /locus_tag="OIDGCHHC_00042"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
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 /protein_id="Prokka:OIDGCHHC_00042"
 /translation="MKKFISNTNTATREIHHTPTSGARLISLDCNYTKEYNNYDEFS
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 SNLTPKEKDLAIAQKWINSKTTTIQGNNGEVIFLFGESMPSIVTAPLRLTDIALEPG
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 SEAKKFMPAVSFNYPNSIIKTLEDYKNQMKAKSESKNFYKTKDDEIPSNIENLDFGYS
 VEGNAPFKPLRIYNDGIKTYIQMPKNLKFYEAPALMILDSSNEKQIVNYRLKYDTFIV
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gene complement(31270..31965)
 CDS /locus_tag="OIDGCHHC_00043"
 complement(31270..31965)
 /locus_tag="OIDGCHHC_00043"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:OIDGCHHC_00043"

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SLNTFIYSWRSVWGNAETQRKFIIDAYAYVEPRSKAFNYLNSEFQKNNPFTRATKENV
RVKIKNIVPQNIDTWQVEWEETTTNLNEDILSKETYRGLIRIKQIIPNTEEQILKNPL
GIFITDINFAKIL"
gene      complement(31984..32313)
          /locus_tag="OIDGCHHC_00044"
CDS       complement(31984..32313)
          /locus_tag="OIDGCHHC_00044"
          /inference="ab initio prediction:Prodigal:002006"
          /codon_start=1
          /transl_table=11
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          /protein_id="Prokka:OIDGCHHC_00044"
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gene      complement(32300..33508)
          /locus_tag="OIDGCHHC_00045"
CDS       complement(32300..33508)
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DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
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COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers

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COMMENT Annotated using prokka 1.14.6 from
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LOCUS OIDGCHHC_5 4447 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
 ACCESSION
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 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
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DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
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COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
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LOCUS OIDGCHHC_7 3545 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.

ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
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 CDS 1768..1896
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ORIGIN

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LOCUS OIDGCHHC_8 3158 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
 <https://github.com/tseemann/prokka>.

FEATURES

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CDS              22..519
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ORIGIN

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LOCUS OIDGCHC_9 2845 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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

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CDS complement(77..217)
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ORIGIN

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LOCUS OIDGCHHC_10 2521 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS

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SOURCE Campylobacter species

 ORGANISM Campylobacter species

 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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NGIKD"

 gene

 complement(576..1475)

 /locus_tag="OIDGCHHC_00087"

 CDS

 complement(576..1475)

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 /transl_table=11

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EFRFVDAKSIEESIKENKKYLEDIEKRNHFEIEIEPRGKTSINFDKNEELKEILKNN
NYKFIEEEKADDSFLKEIIQRDPNSLGYENILKSLVKNLKDIKTKQSSKLNNDYSPI
SIKDFESIINNIPLIKSTRLINILALSIAKELYTPIFEEMEENMFIKYLEAAIQNNI
KEDKILFENLTLKALEKYIKDFE"

gene complement(1472..2518)
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ORIGIN

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LOCUS OIDGCHHC_11 2464 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

 ORGANISM Campylobacter species

 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

 Location/Qualifiers

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 /mol_type="genomic DNA"

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 complement(483..1760)

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 CDS

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 /inference="similar to AA sequence:RefSeq:CKG86610.1"

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 /transl_table=11

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NRGMANMHKGWL FMAEWELAAGILGDIKGFIGALQLSMTGFKARTQAINFLLIQLGHE

QGFKSLYDSYAYRDL TDGIHKNPLKAQMLKDFSKNPPYDELGLMPLFDELIGVDWVID

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 complement(1842..2387)

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 CDS

 complement(1842..2387)

 /gene="trxB_5"

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ORIGIN

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LOCUS      OIDGCHHC_12                2262 bp    DNA        linear        12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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LOCUS OIDGCHHC_13 2057 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
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ORIGIN

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361 cgagcgatct ataaaatggc aatatattaaa agaatttata tcacaaaaga aaaacttggtg
421 attgagtatt atatcaaaaa tgatttggtt tttcctttag gaactttttt tatatattat
481 cgtcaaattt catattcacc ttctccagga catatagtga tacatacctt tggagataag
541 gccaaagaat accttgaacc tggttttattc agtgatggcg atgatccaac aaaaggttgt
601 tttgaaaaaa ttaatgccat tataaaacct catgtaatgc cttattttatt aagcttaagc
661 gatgaagaat ttgaaaaaat ctttttccat gtaaactacta ctagtgaaat tgatactact
721 ttccttaaag aagcaatgga actcagaaaa gagaaaaaag atgaatgaaa atattttatgg
781 aagtttagag ctttattcta aagaaactca aagcactcct agtgataaaa gagatttagg
841 agtatttgga gatcttgctc cttatgcctt acagaaagtt ttactactaa ggcttttaag
901 gggtaagcaa tgaataattc tactttactt tggaaaagta agagaaaaat tattcctttt
961 agtttgtttt tttgctctct ttattttata ttagcttttt ttctgtgttg gttttgttgg
1021 tttgttttac ttaaagaatc tttgtggtat agttttattag ctatatttct tacatttttt
1081 tatatttctg aattgtatga aacattaaat tttaaatcta taattttaac agagcaagga
1141 ttaacattaa aatgcggtg gtttgatagc gaaattttct atccttatgg aagttttact
1201 ataaaatcta taaccataca atttattaaa tttgatgaaa ctataagttt tttatcaaat
1261 actactatta aaaattttaa attacttaat ggttttgaat cttttggtag ttttgaaaac
1321 aatcacacat ttaaagagtt atgcaccaa tatacacaaa aagctttaga aactatgaat
1381 ttagaagaaa aagtaaactt ttataagctt tatcaagcaa atatagaaat attttttaat
1441 caagaaatag atcacaatgt ttttattatt gatttctccc cttatataca agagattaaa
1501 acttatttaa aggataaaaa tgagtgaat aaacaataac acagaaatca aagagcaaga
1561 cacccaagat gaaatcattt gggaaggaaa aaagcatata ctttcgtttt tgcttttttg
1621 gataacatat attgtgcttt tatgttttgc gctttatttg tttcctagat tatttaatcc
1681 tagcaaagaa atagattata aatggtttat agtttttttt acatttcttt tagttatata
1741 tgcacttgca caaagatct atagaatggc aatatattaaa agaatttata tcacaaaaga
1801 aaaacttggt attgagtatt atatcaaaaa tgatttggtt tttcctttag gaactttttt
1861 tgtgtattat cgtcgcctgt cttttgtgct tactccagga catatagtga tatacacctt
1921 cggagataaa gtcaaagaat accttgaacc tggttttattc agtgatggcg atgatccaac
1981 aaaagattgt tttgaaagaa ttaatgccat tataaaacct catgtaatgc cttattttatt
2041 aagcttaagt gatgaag

```

//

```

LOCUS      OIDGCHHC_14          1994 bp    DNA       linear     12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1994
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     96..239
            /locus_tag="OIDGCHHC_00098"
  CDS     96..239
            /locus_tag="OIDGCHHC_00098"
            /inference="ab initio prediction:Prodigal:002006"

```

```

/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:OIDGCHHC_00098"
/translation="MAQAQLLEDLSKQVKFIRSEKENIISLKVAYPEKIDNKIIFVGK
VYE"
gene      232..1485
          /locus_tag="OIDGCHHC_00099"
CDS       232..1485
          /locus_tag="OIDGCHHC_00099"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:CKG88360.1"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="Prokka:OIDGCHHC_00099"
          /translation="MNKTLIFHENSIDLNASFAPGTYIELQLEKESDKTLNWSYVEC
NSEKKMRYLLDTDCHSIEAKDLKFIDSFKNICGFHLPISRDNPTKDIKDYKYYIIV
FAYDEKKAIPSLDFHIVIDMSFRVGVGKDESVEESKPRNDFNSDIIQTNCIFSVFEA
VEFLKACQSFKEKNEIDNYVFFKNYPQFAGKIAYIYRFDLANEEFIKSVSDGNKYLK
EREKFYKVASDVYIKNPIYKMGFEKQLQNQVVDINIADFLKDFAKRLGIDEKVLPIV
GYNPQRGDSGTDYTVNTLDLNPKASYVDFIDTIIHEFRHFYIYCIKNNKNSIEKLL
YLDMVQFYIPWNFYKIFNSYDKKCLIIDNEDETKKCLKNRITYYGSWKFLNPTLDLLPS
PLYYLQPSLEDSRIMAYYFRKEIKL"

```

ORIGIN

```

1  aaaaagataa aaaagagcaa agcataataa aagataatct atatctttat agcatcaatg
61  aaaagggaga gtttggcagt agtggttagca taggtatggc acaagcacag ttattagagg
121 atttaagtaa acagggttaa tttatacгаа gcgaaaagga aatataatc tcaactcaaг
181 tggcttacc tgaaaaaata gataataaaa ttatatgtt aggaaaagtt tatgaataaa
241 aactaatat ttcatgaaaa ttcccatatt gatttaaacg cttcttttgc accagggact
301 tatatagaat tgcaattaga aaaagaaagc gataaaacgc taaattggag ttatgtagag
361 tgcaatagtg agaaaaaat gcgatatttg ttggatactg attgtcattc tattgaggct
421 aaagatctta aatttataga tagttttaaa ggtaatattt gtggatttca tttacctata
481 agtagagata atgaaccaac aaaagatata aaagattata aatattatat tatagttttt
541 gcttatgatg aaaaaaaggc tatacctagt ttagaagatt ttcatatagt tatagatatg
601 agctttagag taggagttgg aaaagatgag agtgtagaag aaagtaagcc aaggaatgat
661 ttaaatagtg atataattca aacaaattgt attttttagtg tttttgaggc tgtagagttt
721 ttaaaagctt gccaaagttt taaagaaaaa aatgaaatag ataattatgt ttttttcaaа
781 aactatctc aatttgcagg aaaaattgct tatatttatt atagatttga tttagctaat
841 gaagaattta ttaaaagtgt aagtgatgga aataagtatt taaaagaaag ggagaaattt
901 tataaagttg cttcagatgt ttatattaaa aaccctattt ataaaatggg ctttgagaaa
961 aaacttcaaа atcaagttgt tgatataaac attgcaaaag atttttttaaа ggacttttgcт
1021 aaaagactag ggatagacga aaaagttttg cctgtaattg gatataatcc tcaacgaggg
1081 gattctggaa catatgacta tacagtaaат acttttagatt tgaatccaaa агcttcttat
1141 gttgatttta ttgataccat tattcatгаа tttaggcatt tttatattta ttgcataaaa
1201 aataattcta aaaatagtat agaaaaattg ctttatcttg atatggtaca attttatata
1261 ccgtggaatt tttataaaat tttcaatagt tatgataaaa aatgtttgat ttatgataat
1321 gaagatgaaa cgaagaagtг tttaaaaaat cgcacatatt atggaagttg gaaattttta
1381 aatcccacat tagatctctt gccaaгtcct ttatactatc ttcagccaag tgagttagac
1441 tctaggatta tggcatatta ttttagaaag gaaattaaat tataatgact ccaccatctt
1501 taccagatgt agaaaaacat gaagatttct tacaаaccag aaaagaacct tatgctattt
1561 atttagccat aaacacaaac ataaaaagtt ataataatat ttgtcctagc gagaaatatt
1621 tttggaaatt taataatag аatgaacttg ataaatggta taacccaaaа tttggcatat
1681 accttggcaa aattgttttt gataaaaaag аcaacaaact catcccaaaa tatatagccg

```

```
1741 ctaaatttga aaatttagaa gaagaagtta aaaagataaa aaatccttta tggcttgcta
1801 ataaaaatcc taattatatt gaacctaaat tttatgatgg tatgagtgga ggttattatt
1861 ttgaaagtcc aaataattta gagtatcaat gcaaaataga aaaagacact caagttttaa
1921 gccagaaca aatcatttct tatgtgaaag aactttatag taaaaacaca ataataataa
1981 aaaattatat tgat
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//

LOCUS OIDGCHHC_15 1445 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

 ORGANISM Campylobacter species

 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
 <https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

 source

 1..1445

 /organism="Campylobacter species"

 /mol_type="genomic DNA"

 /strain="strain"

 gene

 76..855

 /locus_tag="OIDGCHHC_00100"

 CDS

 76..855

 /locus_tag="OIDGCHHC_00100"

 /inference="ab initio prediction:Prodigal:002006"

 /inference="similar to AA sequence:RefSeq:CKG88360.1"

 /codon_start=1

 /transl_table=11

 /product="hypothetical protein"

 /protein_id="Prokka:OIDGCHHC_00100"

 /translation="MSFRVGVGKDESVEESKLSGLKSDTFIEEWKLNLIADFYEA
YNFILIMIFIYKNDWDFIVNPMNYPQLAGKIAIYIYRFDFRKIYHQIKLKYDMQMKY
KNYFQDLKYEETIKMVVKYNYKSSQTYPVQWVERLIKEICNEFKINTKIEFIPMKV
KQYGLYNSSYTI SINVNNIKVTQEILKTIVHEIRHAYMQQKCLKNDALQRYMYFTYK
KVYFNAEQIYLDENETKDVYFQPSETEARAIENNIKEIQ"

ORIGIN

```
  1  tattatatta tagtttttgc ttatgatgaa aaaaaggcta tacctagttt agaagatttt
  61  catatagtta tagatatgag ctttagagta ggagttggaa aagatgagag tgtagaagaa
 121  agtaagctat ctagtggttt aaaatctgat accgatttta tagaggaatg gaaaaagtta
 181  aatttaatag ctgattttta tgaagcttac aactttatac tcataatgat ctttatatat
 241  aaaaacgatt gggataatth tatagtaaht ccaatgaatt atccccaact tgcaggaaaa
 301  attgcttata tttattatag atttgatttt agaaaaatat atcatcaaat taaattaaaa
 361  tatgatatgc aatgaagta taaaattat tttcaagact taaaatacta cgaagaaaca
 421  attaagatgg tggttaaaaa atataattac aatcaagtc aaacttatcc tgtgcaatgg
 481  tgggaaagat taattaaaga aatttgcaat gaatttaaaa taaatacaaa aattgaatth
 541  attccaatga agttaaaca atacggttta tataataatt caagttacac aataagtata
 601  aatgtaataa atataaaagt tacacaagaa atattaaaga caatcgttca tgaataacgc
 661  cacgcttata tgcaacaaaa aaaacttaaa aacgatgctt tgcaagata tatgtatttt
 721  acttacaata aagtttattt taatgcagaa caaatatatt tggatgaaaa tgagactaaa
 781  gatgtgtatt attttcagcc aagtgaacaa gaggctagag caatagaaaa caatataatt
 841  aaggaaatac aatgagattt atcgagccag acttagaaaa acataagtat tttttacaaa
 901  ccagaaaaga gccttttgct atttatttag ccatcaatac taatattaaa agctttaata
 961  atatttgtcc tagcgaggaa aattcgtggt attttcgcag caaagaaatt ctagaaaatt
```

```

1021 ctcttaataa tttttataac ccaaaatttg gcatatatct aggtaaaatt atatttgata
1081 aaaaaggcaa taaacttatt ccaaaataca taccactaa atttgaaaat ttagaagaag
1141 aacttaaaaa gataaaaaat cctttatggc ttgctaataa aaaccctaata tatattaagc
1201 ctaaaccatt gaaacctatg aaacctaata caaaagaaag ttctttggaa aatataagtc
1261 aattggagtt agcaatacaa gatgtagtgg taagtcgtgg tgattataaa ataaccactc
1321 caaataatth agagtatcaa tgcaaaatag aaaaagacac tcaagtttta agccaagaac
1381 aatcatttc ttatgtgaaa gaactttata gtaaaaacac aataataata aaaaattata
1441 ttgat

```

```

//
LOCUS      OIDGCHHC_16          1355 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1355
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"

```

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ORIGIN
  1  tctcactcta aaaacctaaa ccatttcatc ttagaaaaca aagataaaaa taaaagaatt
 61  atctttttaa ataatgcttc atcgatgtca aatttaatcc atatttatga taatcattgt
121  gatgtattta ttaaaaatga ttctttgctt gatattaaaa gaatagaaaa agaataatgat
181  attaaattta aagaatttaa tacaagagtg tttttttatg aaaaacttct tttaggtgca
241  aaagaaaata atgaattttt atttgaagaa aaagaagaaa atttacttta tcatttttaa
301  tacgataaag aggatttaag ttcttttaaa gatttaagta taaaatataa tatttataat
361  gcaaggatta agaattattc tttactagaa gaaagttaa atattaaatt agaaccctaaa
421  gagcttaaaa aagaaattgc ctacaacaat gcaagtttta ataaactttc aaaagaacct
481  ttaaacaat  cctcatctaa cgctaaagaa ccctgcttta tcactttata tctaaaagat
541  gaacacaata aaccattgct taatgctaaa atcatcataa aaggttttca acataatgaa
601  gccttaagag tagttaattt aaaaagacgc agcgatgaaa aaggcaagat aagatttgat
661  aaagaaaagt attttagtga ttgttatagc tttaaagtaa agcttgatga aagcaaagct
721  tattttccta ctcttttaca aaatgctaaa agaattttta ataattatac ccatcacaaa
781  gttggactta tacttaaatt taaagctaaa gatcatttag tttatgatgg atttaatgct
841  tatcattaca aaggaaatga attaattaat tcttatatgg caagaagtgg cactgctaag
901  gcagacaatc aaaaaagaag taaaaaacia attgcacatt atttttacca agatgaaaaa
961  gataaaagca aaagcggaaa ggcttatttt tactatgatg atgaaagcat tcaagataga
1021 tttggcactt tacctgaagg ggagtattat ttaaaaatca atgaaatagc taaagatact
1081 aagcctaact ttttaaaaga ttatcccttt gaaataggaa aaacctgggg aagatactgc
1141 gtaagattat atactgataa agaatgctct aaaactttta aagaaataga aataaaagaa
1201 agtaatgaaa aagaaaacia aacaagcaaa aaagataaaa aagagcaaag cataataaaa
1261 gataatctat atctttatag catcaatgaa aaggagaggt ttggcagtag tggtagcata
1321 ggtatggcac aagcacagtt attagaggat ttaag

```

```

//
LOCUS      OIDGCHHC_17          1314 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .

```

SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..1314
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"

ORIGIN
 1 aaaaagataa aaaagagcaa agcataataa aagataatct atatctttat agcatcaatg
 61 aaaagggaga gtttggcagt agtggttagca taggtatggc acaagcacag ttattagagg
 121 atttaagcaa gcaagctaag tttatacaag atgagaagga aggaattggt tctttaagag
 181 tagagtatcc taagcaagag aaatctaaag taaatttcat aaaagaaata gaatgggaac
 241 tcgatgaaga tgaagatgtg gtaagtgtg aaaaaagtgt aaggattatt atcgatgaaa
 301 aggcaaattt tgcaccaggg acttatgtag aatgcgaagt tgatggttta gaagatgatg
 361 taaatatcgt ttgggcttta gctcaaattc aaaatgaagc aagacttcaa agaattttag
 421 aaagtaaaga gcatttagaa tttaaagata taaagttttt aaaagacgaa agtaaattatt
 481 ttcattgaatg ctgggaaatg gatgatgaag aaaaagatga agaatttgaa aaaataggct
 541 ttagtttacc tctaaaaagg gctaataag aagaatttga taaatattat gctttagttt
 601 ttgcttatga agataaaaaat aaatttaaaa gacttcctaa tttaaatgat gcttataaaa
 661 tcatagatat gagctttaa gttggctctg gtagagatga tagggtgaaa gaattattta
 721 caagagagga gctaaaatcc cttaatgtat ataacttaa cgcacaaaaa tcaatcgata
 781 gtgttgaaga ggcaaattgg tttttaaggg caaatttaa aaatcaagaa aaaagagact
 841 tttttacctt tcttagaacc taccctcaac ttgccggaaa aattgcttat atatactata
 901 gatttgattt aatcaataag gaatttttaa caagtgtatc agaaaaagat aaaggaaatt
 961 atcttcaaga tagagacggc aaatatatta gcaccataat taataaaatt ttacctttgg
 1021 aatataagaa tggtaaaagt tttaaacaat tccacacaga gcttttaaatt aacaaaaaca
 1081 gagatcttaa agaattgtaa gattttttta aagctttaa tcaaactctt tgtaaagaat
 1141 ttaatttacc tttagaaaat gtagtctttt atagccaaaa gcctagcggga tctttatcat
 1201 ttggagctta tgaagaaaat aaggtaagat taaatcaata cattttaaaa gcttatttta
 1261 aagaatttgc aaaaacggtt tttcacgaat gtaggcattt ttatatagaa aaat

//
 LOCUS OIDGCHHC_18 1132 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..1132
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene 40..393
 /gene="trxB_6"
 /locus_tag="OIDGCHHC_00101"
 CDS 40..393
 /gene="trxB_6"


```

/locus_tag="OIDGCHHC_00101"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86610.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:OIDGCHHC_00101"
/translation="MDSTPESRNEFDDAMDREYENGMVTRFDVDTPNDWGEQQAALDRD
TLVLSAKLAALTPPQGYPNAPYYFTPERLEWIYKRGYLDKLLDPRIPIYRYNFPREL
RAKILKFGEENGIKD"

```

ORIGIN

```

1 aatgatattg aaaaaggtaa attaaaagat ccaagagatg tggattctac tcctgaaagt
61 agaaatgaat ttgatgatgc tatggataga tacgaaaatg gaatggtaac tagatttgat
121 gtagatactc caaatgattg gggatgaaca caagctgctt tagatagaga tacttttagta
181 ttaagtgcc aactcgcagc cctcactcct ccacaaggct atcctaagtc tccttattat
241 tttacacctg aaagattaga atggatttat aaaagaggat atttagataa actccttgat
301 ccaagaatcc ctgctattta tagatataat ttcccaaggg aacttagagc taagatactc
361 aaatttggcg aagaaaatgg cattaagat taaagtaatt gcataggcag actagccact
421 actataatca tagaagatgg tttatatata ggttaaatta agaaaggata aaaatgagtg
481 aaacttatga gatttataca ccaatgggt taataatgga tgtatataaa gatactaata
541 aatcattttt ttcaggaaat gctaaacca caggcaatta taccgaagaa tattccaag
601 ctttgtttga agcacacgac attaaacgaa actcccccta caagactat aaaccaatat
661 atctagatcc taacttttat acagggcaag cttctacttt acttgaattt aaagaatggc
721 aaagcatata tttaaaagat cctatcaaag gagctcaaaa taccacaaat atttgtatta
781 attatgtaaa aaaaggtttt aaagaagttt taatcgaaca acttggcatt atatatttat
841 taacacatcc acaaatcgaa gttgaagtta agaaatatgg aaaaaaatat ttttaaggcta
901 taacaagga aattgctgca aaaagatttt ctacaattaa agaagaatta tttttcaata
961 aaacaaaaat atcctttatg gcagaacaag taaaaaacgg tattgattat gaaatagatc
1021 aaaagcttga agaaaataaa gaatttcttt taaaagact tttgtcttat ttgattattg
1081 atgagaaaag aagtgcaact gcttttagagg atataaaaga acaaaaaatat at

```

```

//
LOCUS      OIDGCHHC_19          1037 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1037
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     1..954
            /locus_tag="OIDGCHHC_00102"
  CDS     1..954
            /locus_tag="OIDGCHHC_00102"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:AVS37497.1"
            /codon_start=1
            /transl_table=11

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/product="type VI secretion protein VgrG"  
/protein_id="Prokka:OIDGCHHC_00102"  
/translation="MPQYNYPRYKREIATNLSYLSVAPAMIDKGLDTLKLQENTDYE  
LSSINNHYLTLANSTIGVDNADARARNEITLKNDDKKEEIYILAQKDYKEEIGNNYYEQ  
TIKNNKTSEVGALYTEFITLGHMQNIIGFKNVNVGAEYLENTLLSKDTNVLNNTLNV  
GISNEVNIGQNHEEKIGNDKRVIINNLEQDIKNDFIQRIGHNKNETIKGSYVLQTNQ  
SIKFYSKQDLSIETNDCFKAEDTFVSFKAKKNCSFTADEVYTMANKESFLTAQKQIV  
SRVGNITTITQTKDKIILQVGTQVIIDSKGLRVQGGDLRAD"
```

ORIGIN

```
1 atgccccaat ataattatcc aagatacaaa agagaaatcg ctacaaatgc attgagctat  
61 ttaagcgtag ctctgtctat gattgataaa ggtttagata cattaanaact tcaagaaaat  
121 actgattatg aattaagctc tataaacaat cattatctta ctttagcaaa ttctacaata  
181 ggagtagata atgccgatgc aagagcaagg aatgaaatta ccctaaaaaa cgacaaagac  
241 aaagaagaaa tttatatcct agcacaaaaa gattataaag aagaaatagg taataattac  
301 gagcaaacca taaaaaataa taaaacttca gaagtgggag ctttatatac cgaatttatc  
361 actttaggac atatgcaaaa tattataggt tttaaaaatg tcaatgtagg agctgaatat  
421 ttagaaaata ctttgctttc taaagatact aatgtggggt taaataatac tttgaatgtg  
481 ggaatcagca atgaagtcaa tatcggacaa aaccacgaag aaaagatagg aaacgataaa  
541 agagtaataa tcaataacaa tctagaacaa gatatcaaaa atgattttat ccaaagaata  
601 ggacataata aaaatgaac cataaaaggt tcttatgtgc ttcaaaccaa tcaaagtata  
661 aaatthttatt ccaacaaga tctaagcata gaaacaaacg attgctttaa agctgaagct  
721 gatacttttg ttagtttcaa agccaagaag aattgctctt ttacagccga tgaagtgtat  
781 actatggcaa ataaagaaag ttttttaaca gcacaaaaac aaattgtttc tagggtagga  
841 aatacaacta tcacacaaac aaaagataag attatactcc aagtaggaac aacacaagtg  
901 attatagata gtaaaggttt aagagtgcaa ggaggtgatt taagagcaga ttaaaagcaa  
961 ttttcttaa attaaaacca aatcataaa taaacctaatt ttacaataaa aggaaaaaca  
1021 atgaaaacat tagaaga
```

//

LOCUS OIDGCHHC_20 1028 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

 ORGANISM Campylobacter species

 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
 <https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

 source

 1..1028

 /organism="Campylobacter species"

 /mol_type="genomic DNA"

 /strain="strain"

 gene

 complement(554..910)

 /locus_tag="OIDGCHHC_00103"

 CDS

 complement(554..910)

 /locus_tag="OIDGCHHC_00103"

 /inference="ab initio prediction:Prodigal:002006"

 /inference="similar to AA sequence:RefSeq:APB39663.1"

 /codon_start=1

 /transl_table=11

 /product="VgrG protein"

 /protein_id="Prokka:OIDGCHHC_00103"

 /translation="MKGNKKEVVEGKLELHVNKGINYFTEEHFSMQTNNYIDIYTEQN"

LSTQTKKQHTELAESKYSDFQTDSEVKAGNQILHQVGDQTQIVTKKDCVIIKAGGVEVI
IDSNGLVVKGGELKAE"

ORIGIN

```
1 cttcatcact taagcttaat aaataaggca ttacatgagg ttttataatg gcattaattc
61 tttcaaaaca atcttttggt ggatcatcgc catcactgaa taaaccaggt tcaaggtatt
121 ctttgacctt atctccaaag gtgtatatca ccatatctcc tggatttgat atggatggaa
181 gtgacgaact acgataatat acaaaaaaag ttcctaaagg aaaaaccaa tcaattttta
241 tataatactc aatcacaagt ttttcttttg tgatataaaa tcttttaata tttgccattt
301 gatagatatt ttttacaagt atatataacc caaaaagaaa tataacaaaa actataaacc
361 atttataatc tatttctttg ttaggattaa ataacttagg aaacaaataa agaataaaac
421 ataaaaatac aatatttgct atccaataaa gcaaaaacga aggtatatgc ttttttcctt
481 cccaaatgat ttcatcttgg gtgtcttgct ctttgatttc tgtgttattg tttatttcac
541 tcatttttat ctttactctt gccttaagct ctccaccttt aaccacaagt ccattagagt
601 ctataatcac ttctactcca cctgctttaa tgataacaca atctttctta gtaacaattt
661 gagtatcacc tacttgatgg aggatttgat tgcctgcttt tacttcagaa tctgtttgaa
721 agtcactata tttagattct gcaagttctg tatgttggtt tttggtttgc gtgcttaaat
781 tttgttctgt gtatataatca atgtaattgt tagtttgcac actaaaatgt tcttccgtaa
841 agtaatttat tcctttatta acatgaagct caagttttcc ctcaaccacc tcctttttat
901 ttcccttcac attccttatc tcacttttat ggataatagt attttgattt gcacctattt
961 ctatgtcttt gttttctcct acaaactcat gagagttttt agctatttct actttattat
1021 ctactcct
```

//

LOCUS OIDGCHHC_21 1005 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1005

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 cttatcctt tcttatggct tcatttaata aatcacagta ttcattacga tcttcataat
61 cttataaaa gatattaaat ttcttttcaa gttgatcgga agtcattgca cctgcagctt
121 ttaaaagctt tctatttcta gctccttcgg cttcatctaa aggtgtcgct aaatagggaa
181 caaaattaac attagctcca agctctatta gaagttgcac ggttctgtaa tttcctggct
241 ctctcactgc tctaaataag ggtgtattct gatatttata gattgattca aactcatatt
301 cttccatata cacattagcc cctcctttga tggcaagctc tagaaattta taatcattat
361 tactagccca aaaatgcata ggagaccagc ccattttgtc gcgatatact tcaaatttag
421 ctccatgatt tgctaggat tggataattt gggggtttgg attatcagca gttaggatat
481 acttatagat taaagcttct ttgtaaagtc taggattatc ttccatgtat cttactacaa
541 catatttatc attagcttct ttgatataat tcatatctgt aaagcgaaaa ttatatttag
601 gatcttttag acttaagcca tactcatcaa ataaataatc taaaatagaa aaatcattat
661 tattttcttc acaagcaaat gcagctctca ttatcaaata ataaggatca aataaaggat
721 attcttcggt atcattttta aatgaagct cataacaaga aatttttaca ggataatcctt
781 ttaaaatctc ttttacttta gctaaatcat tatcatctat agcctcaaga actaaatcctt
841 ctaacttatc cttttcctca taactcatag ccttaatatc ttctaagtgt ttcattgttt
901 ttctttttat tgtaaattag gtttatttat gattttgggt ttaattttta gaaaattgct
```

```

    961 tttaatctgc tcttaaatca cctccttgca ctcttaaacc tttac
//
LOCUS      OIDGCHHC_22                961 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..961
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     120..620
            /locus_tag="OIDGCHHC_00104"
  CDS      120..620
            /locus_tag="OIDGCHHC_00104"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG86719.1"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"
            /protein_id="Prokka:OIDGCHHC_00104"
            /translation="MGDSITLYIFLGLLGFISVFTFARTYFITLAVFIIIFSIINYWMR
            INIKEFVKSYFLIFFVILFADIIGVYFYGNIENPAKFTSLFLEVKQLPSEEYLVFSC
            LAFLFIITMEFFIITFFILPCLLQAYFFKCYSTGEKRRKLSWFIGFACNIFLLIVSFY
            KLYENL"
  gene     607..738
            /locus_tag="OIDGCHHC_00105"
  CDS      607..738
            /locus_tag="OIDGCHHC_00105"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG86746.1"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"
            /protein_id="Prokka:OIDGCHHC_00105"
            /translation="MKIFKDYQKFTPYGLDFKLYSKDFITKLDFRDKAYNVLYDIGV"
ORIGIN
  1 aagactatca aaaattcact ccttatgggt tggattttaa actttatagt aaagatttta
  61 tcactaaact tgatttttaa gataaagctt ataatgtgct ttataataca ggagttttaa
  121 tgggagatag cattacactt tatatTTTT tgggcttggt gggatttatt agtgtcttta
  181 ctttgcaag aactatTTTT ataactttag ctgtgtttat tatcttttct attataaatt
  241 attggatgag aattaacata aaagaatttg taaaatctta ttttttgata ttttttgta
  301 ttttatttgc agatataatt ggagtatttt atttcggcta taatattgaa aatcctgcga
  361 aattcacttc tcttttttta gaggttaagc aattaccatc tgaagaatac ctagtattta
  421 gctgtcttgc attccttattt atcataacta tggaaTTTT tataatcaca ttctttatac
  481 ttccttgttt attacaagct tattttttta aatgctatag cacaggagaa aaacgcaaaa
  541 aattaagttg gtttataggg tttgcgtgta atatcttttt attaattgtg agtttttata
  601 agttatatga aatcttttaa agactatcaa aaattcactc cttatgggtt ggatttttaa

```

661 ctttatagta aagatTTTTat cactaagcTT gatttttagag ataaagcTTa taatgtgctt
721 tatgatataG gagttttaaTt gggagatagc attacacttt ctattttttg gggtttgatt
781 ttgtttattg ctagtttttac tgttgcaaga atttatctta tagctctaag cgttcttatt
841 gtcttttcta ttttaaatta ttggatcaag attaataataa aagaatttGt aaaatcttat
901 tttttaatat cttttattat cttttttaca gctattgtta tcgtatttta tcttacttat
961 g

//

LOCUS OIGDCHHC_23 932 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source

1..932

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

126..539

/locus_tag="OIGDCHHC_00106"

CDS

126..539

/locus_tag="OIGDCHHC_00106"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:OIGDCHHC_00106"

/translation="MFKKLALFLLPVYLLFLAGGCSYKYMDPQYYEFKSLCYFNLGK

VLIEDESIGNKNTNIIIVTPKSKQIKDRIVETRFERKNENQVVYRINTYFYDNYGIFLK

GDEGAGLYFRYMEVLSCKNIDKKFKKDDWQVETLE"

gene

543..683

/locus_tag="OIGDCHHC_00107"

CDS

543..683

/locus_tag="OIGDCHHC_00107"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:OIGDCHHC_00107"

/translation="MNKNIKTQEAKLDLITKFLDYANCADASYAMLHLIDENDEKGF

KG"

ORIGIN

1 ttaatctttt aatatttatt cttatatttt tcttttttGt ttttatattt tctattattt
61 tatattttat ctttaaagtc ttttttaaaa taaaaaataa aacaaaaact ataaatttta
121 aaacaatgtt taaaaaactt gctttatttc ttttacctgt atatctttta ttattccttag
181 caggaggctg ttcttataaa tatatggatc cgcagtatta tgagtttaag agcttGtGtt
241 attttaattt gggaaaagtg ttgattgagg atgaatctat aaagaataaa acgaatataa
301 tagtgacacc taaaagtaag caaataaaaag ataggatagt ggaaactaga tttgaaagaa
361 aaaatgaaaa ccaagtagtg tattatcgta ttaatacata tttttatgat aattatggta
421 tattcctgaa aggcgatgag ggtgctggat tatatttttag atatatggaa gtattaagtt

```
481 gtaagaatat tgacaaaaaa tttaagaaag atgactggca agttgaaact ttggaataac
541 aaatgaacaa aaacattaaa acgcaagaag ctaaattaga cttaatcact aaatTTTTAG
601 actatgctaa ttgtgcagat gctagttatg cgatgttgca tttaatcgat gagaatgatg
661 aaaaagggtt tttaaaagga taataatgct agaattcttt gttaatcttt taatatttat
721 tcttatattt ttctTTTTTG tttttatatt ttctattatt ttatatttta tctttaaagt
781 cttttttaa ataaaaaata aaacaaaaac tataaatttt aaaacaatgt ttaaaaaact
841 tgctttattt cttttacctg tataatctttt attattctta gcaggaggat gttcttataa
901 atatatggat ccgcagtatt atgagtttaa ga
```

//

LOCUS OIGDCHHC_24 747 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..747
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 acaggcaatt ataccgaaga atattccaaa gctttgtttg aagccgatcg catattaaga
61 aactccccct acaagacta taaaccaata tatctagatc ctaactttta tacaggggcaa
121 aatccactt tgcttgaatt taaagaatgg caaagcatat atttaaaaga tcctatcaaa
181 ggagctatag ctccttgac taaagcagaa aaagcttatt ataaatcttt aaaaaccaaa
241 agagaaagat ataaatatct aattataaga agtgggtataa gaagcactgt tatagatata
301 ccctatgatg cttattgtaa tgtagatgaa aaaggatatt taatcaatga agaatacgcc
361 tatatttatg atgaagttaa caataataaa gaaaccttaa aatcttctct ttttagacaa
421 gaatggggta tagcagcagg aatactagga aaacctgaat attttgtgcg ttttaaaat
481 catggcttta atgctagaat gatacaatgt tttattttat atattcaact cacaggtgga
541 ggatatgaag aattaggtat aaaaagagga atttataatt atgctgataa tcttttagaa
601 ataggtatag gtatggcagg gatacataaa aatcctttta gggctaaatt agtaaaagat
661 ttagctaaaa ctatacagcc tgatgaattt ggtatgctac cttttataga tgagattatg
721 ggagtagatt gggtgattga tttaaat
```

//

LOCUS OIGDCHHC_25 738 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..738
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

```

gene          49..222
              /locus_tag="OIDGCHHC_00108"
CDS           49..222
              /locus_tag="OIDGCHHC_00108"
              /inference="ab initio prediction:Prodigal:002006"
              /codon_start=1
              /transl_table=11
              /product="hypothetical protein"
              /protein_id="Prokka:OIDGCHHC_00108"
              /translation="MDNIALKTKNMQMSLHKIVDMHISPYWNTTRYVLEGNEGNMNF
              FIEDELACGNLYQ"
gene          394..609
              /locus_tag="OIDGCHHC_00109"
CDS           394..609
              /locus_tag="OIDGCHHC_00109"
              /inference="ab initio prediction:Prodigal:002006"
              /inference="similar to AA sequence:RefSeq:CKG86895.1"
              /codon_start=1
              /transl_table=11
              /product="methyltransferase small"
              /protein_id="Prokka:OIDGCHHC_00109"
              /translation="MDYFKALHDEYNGYLVIDDSLFFYAKLNGDFRELQARNFSQRYE
              IKFHQSNTTSGFSTALSYEKTEKIKRS"

```

ORIGIN

```

1  tacgatgata cttacaaaac tcctttaaat tttcaagaaa agatagagat ggataatatt
61 gcactaaaaa caaaaaatat gcaaatgtct ttacacaaga ttgttgatat gcatataagt
121 ccatattgga atactagaag gtatgtgtta gaaggcaatg agggtaatat gaattttgag
181 tttatagagg atgagctcgc ttgtggcaat ctttatcaat aataatataa ggaataaata
241 atgaccaata aagaacaaat caacaattta aaagattata cagaatttgt gtaagctagt
301 tattttaatt ttgtttatac tgaaggacaa aaagctttag gatttaaaat atctaaaact
361 agatttttta aagataagag tgaattagaa aaattggact attttaagc attacatgat
421 gaatataatg gatatttggg tatagatgat tctttatatt tttatgCGAA actaaatgga
481 gatttttagag aattacaagc tagaaatatt tctcaaagat atgagattaa atttcatcag
541 tccaacacta caagtggttt tagcactgct ttgtcttatg aaaagacaga gaaaattaag
601 aggagttaat aaatgctaga attcctttgtt aatccttttaa tatttattct tatatttttc
661 ttttttgttt ttatattttc tattatttta tattttatct ttaaagtctt ttttaaaata
721 aaaaataaaa caaaaact

```

//

```

LOCUS          OIDGCHHC_26                730 bp    DNA        linear        12-APR-2021
DEFINITION    Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS      .
SOURCE        Campylobacter species
  ORGANISM    Campylobacter species
              Unclassified.
COMMENT       Annotated using prokka 1.14.6 from
              https://github.com/tseemann/prokka.
FEATURES      Location/Qualifiers
  source      1..730
              /organism="Campylobacter species"
              /mol_type="genomic DNA"
              /strain="strain"

```

ORIGIN

```

1  tatctacatc  aaatctagtt  accattccat  tttcgtatct  atccatagca  tcatcaaatt
61  catttctact  ttcaggagta  gaatccacat  ctcttggatc  ttttaattta  cttttttcaa
121  tatcattata  taaagcccaa  atgattctac  cttcttcac  ataggcaaaa  tcatatttat
181  ttaaataaat  cgtccaatct  gctcctataa  tctcatctaa  aaaaggtagc  ataccaaatt
241  catctaacia  actctcataa  tgatgatcgt  gtaaatcgta  aatcattttt  gctctaagct
301  tattccaatg  ttgccctgta  agaaaagaat  tagaacacaa  tactgctaaa  cctaaactct
361  taaaagcatt  tttatctcca  aattgagcct  gtaaaaataa  agcttgttgt  tgtcttgctt
421  taaatcctac  agcggctgta  ggactagctc  tcatatctcc  tagaagtaaa  gcagctaatt
481  cccattcatt  aaagaaagaa  taagatttta  atgttccacg  atgagaactt  acttcatcat
541  aaatataggc  gtattcttca  ttgattaaat  atcctttttc  atctacatta  caataagcat
601  catagggtat  atctataacc  acagatctta  atccacttct  tattgcaaaa  tacttacatc
661  tttctctttt  agtttttaaa  gatttataat  aagctttttc  tgcttttagtc  caaggagcta
721  tgcttccttt

```

//

LOCUS OIDGCHHC_27 671 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

 ORGANISM Campylobacter species

 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

 source

 Location/Qualifiers

 1..671

 /organism="Campylobacter species"

 /mol_type="genomic DNA"

 /strain="strain"

 gene

 complement(55..615)

 /locus_tag="OIDGCHHC_00110"

 CDS

 complement(55..615)

 /locus_tag="OIDGCHHC_00110"

 /inference="ab initio prediction:Prodigal:002006"

 /inference="similar to AA sequence:RefSeq:AAW35464.1"

 /note="conserved hypothetical protein"

 /codon_start=1

 /transl_table=11

 /product="hypothetical protein"

 /protein_id="Prokka:OIDGCHHC_00110"

 /translation="MSYLIIDEKRSATALEDIKEQKYIIDDYTFYFKELKSLELKKCT
IYQLPCNHPLFKEFRNKEKQISAFKKDEDSPIHAYNEALQILQDFANGIYNTSKDKTG
KCIEDKNKTRRLLEKLNIIIGQNNLKAMYMGINGNKESLKAIGKRENNTSKANINADIA
SETKAPPNFIGRLATTIIIEDGLYMG"

ORIGIN

```

1  ccattgggtg  tataaatctc  ataagtttcg  ctactatatt  atcctttctt  aaatttatcc
61  catgtataaa  ccatcttcta  tgattatagt  agtggctagt  ctacctatga  agttaggcgg
121  agcttttggt  tccgatgcaa  tatcagcatt  tatatttgct  ttgctagtgt  tattttctct
181  ttttctatg  gctttcaagc  tttctttatt  tccatttatc  cccatataca  tagctttaag
241  attgttttgt  cctatgatat  tgagtttttc  tagtaatctt  ctggttttat  ttttatcttc
301  tatacathtt  cctgttttat  ctttgcttgt  attgtaaatt  ccattagcaa  aatccttgtaa
361  aatttgtaaa  gcttcattat  aagcatggat  gggactatct  tcatcctttt  taaaagcact
421  aatttgcttt  tctttatttc  taaactcttt  aaacaaagga  tgattacaag  ggagttgata
481  tatagtgcac  tttttaagct  ctaaagattt  taactctttg  aaataaaaag  tataatcatc

```



```
541 tataatatat tttgttctt ttatattctc taaagcagtt gcatttcttt tctcatcaat
601 aatcaaataa gacaaaagtc tttttaaaag aaattcttta ttttcttcaa gcttttgatc
661 tatttcataa t
```

//

LOCUS O1DGCHHC_28 639 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

1..639

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(20..562)

/gene="trxB_7"

/locus_tag="O1DGCHHC_00111"

CDS

complement(20..562)

/gene="trxB_7"

/locus_tag="O1DGCHHC_00111"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG87041.1"

/codon_start=1

/transl_table=11

/product="thioredoxin reductase"

/protein_id="Prokka:O1DGCHHC_00111"

/translation="MLKDFSKNPPYDELGMLPFLDELIGVDWVIDPNRYRFAEDEKGR
VNDALKDDVEKGILKDPRIIDSTSESRLFYKLDAYRNGMKTRFDGDNPNHWSKEQV
ERFNDTLILCAKLAALTPPQGYTNAPYYYSERLEFIYKNHNLDKLLDPRIPAIYRYN
FPRELRAKILKFGEENGIKD"

ORIGIN

```
1 gtctgcctat gaggttactt taatctttaa tgccattttc ttcgccaaat ttgagtatct
61 tagctctaag ttctcttggg aaattatata tataaatagc agggattctt ggatcaagga
121 gtttatctaa attatgattt ttgtaaataa actctaactt ttcaggagag taataataag
181 gtgcattagt atagccttga ggaggagtga gggctgagag tttggcacat aaaatcaaag
241 tatcattaaa tctttctact tgctctttac tccaatgatt tggattatct ccatcaaatc
301 tagttttcat tccatttcta taagcatcca atttatattc aaattccaat ctactctctg
361 aagtagaatc tataatctct ggatctttga gtattccttt ttcaacatca tcttttagag
421 catcattaac tcttcctttt tcgtcttctg caaatcgata cctatttgga tctatcacc
481 aatccactcc tataagttca tctaagaaag gaagcatacc caattcatca taaggaggat
541 ttttagaaaa gtcttttagc atttgagctt taagagggtt tttgtgtatg ccatctgtta
601 aatctctata tgcataagaa tcataaagac ttttaaac
```

//

LOCUS O1DGCHHC_29 629 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..629
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene complement(50..616)
/locus_tag="OIDGCHHC_00112"

CDS complement(50..616)
/locus_tag="OIDGCHHC_00112"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG88165.1"
/codon_start=1
/transl_table=11
/product="ribosomal protein L7/L12"
/protein_id="Prokka:OIDGCHHC_00112"
/translation="MAKNVNVGGEYLTNVGLSKDTIVGLSNTLNVGVDNKVRVAKNSH
EFVGENKDIEIGANQNTIIHKDEIRNVKGNKEMVEGHYDINISDKMQVLSEKEMDYK
SKDNILFTSNESIGFESDKNTSMVADNITTYAKTIHELKADSEATIQVGETIINAKPD
CVIIKAGGVEVIIDSNGLVVKGGEELKAE"

ORIGIN

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1 tatataaaat cttttaagtt tgtaaaaagg ttttttcatt gcttatacctt tactctgcct
61 taagctctcc acctttaacc acaagtccat tagagtctat aatcacttct actccacctg
121 cttaaatgat aacacaatca ggTTTTGcat taataattgt ttctcctacc tgtatagtcg
181 cttcgctatc ggcttttaac tcatgaatag tttttgcgta agttgtgata ttatcagcta
241 ccatgcttgt atttttatca ctttcaaadc ctatggattc attacttgta aaaagaatat
301 tgtctttgct tttataatcc atctctttct cgcttaatac ttgcatttta tcgctgatat
361 taatatcata atgcccctca accatttctt ttttatttcc cttcacattc cttatctcat
421 ctttatggat aatagtattt tgattagcac ctatttctat atctttggtt tctcctacaa
481 actcatgaga gtttttagcc actcttactt tattatctac tcctacattt aaagtattgc
541 ttaatcctac tatggtatct ttagataagc ctacattagt taagtattct cctcctacat
601 tgacattttt agccaaatct atggtttga

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//

LOCUS OIDGCHHC_30 587 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..587
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

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1 atgagttctt gtaagattac aaattcatta tttactttct tttgagataa ggagccttta
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121 atactagagt ttaataaatc acttttctagc attataggga taccatcact tttaaaggat
181 tttcctttgt ttgatttaag tatgacttta cctccatgga tacattctag gttttgattt
241 tctaaaagag cgtgaagttt ggctatgctt tgttttttat ctacttgtgt ggttttttgt
301 tcttttagag tgtttgaaat taaatctttg tattctaagc tttgtttgct taagcattct
361 aatttgatat ttaaagattt ttctaataa gaataattaa gcaagcaaag ttcattcattt
421 ttataaaaga tactaagtct tcctaaacca ctgctttcat ctttaggaga aaaataataa
481 ctgggtatat cttgttttat agtattatct tgatctaatt ctccaaaata aaaaggatta
541 ttagaaaagt catttgagcc tgtaaggagg gtggagtta ggaagat
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//

LOCUS OIDGCHHC_31 584 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
 <https://github.com/tseemann/prokka>.

FEATURES

 Location/Qualifiers
 source 1..584
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene 218..316
 /locus_tag="OIDGCHHC_00113"
 CDS 218..316
 /locus_tag="OIDGCHHC_00113"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:OIDGCHHC_00113"
 /translation="MSKNIKTQEAKLDLITKFLDYANIADASYAML"

ORIGIN

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1 aaaataaatt tactttaaca gaagttacat ttgaagatta ttatgatggt attcattatt
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121 ctggattcta ttttagatat cataaaaagac tgtattgtga agatgttaga taaaaaatta
181 gaaagataat ttgagattta gattttttgga ataacaaatg agcaaaaaca ttaaaacaca
241 agaagctaaa ttagacttaa tcactaaatt ttagactat gctaatatag cagatgctag
301 ttatgctatg ttgtaatatg tttgggaaaa tatagagcaa gatgaaaaga ataataatta
361 tacttttggt gataaattaa agcaagatat tgttatgaaa aatagtaaag gagaagatat
421 tgtaaacct aaaaatacaa acacagctta tgcttgtgct atacaagctc gttttgaaca
481 aaataaaata gttaaaatag aacctaaata ttgtatttct cttataaata cttgttttga
541 tagtaaagaa ataacattgg ataatgatat tagtagggta ggat
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//

LOCUS OIDGCHHC_32 517 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..517
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene complement(365..496)
/locus_tag="OIDGCHHC_00114"

CDS complement(365..496)
/locus_tag="OIDGCHHC_00114"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:OIDGCHHC_00114"
/translation="MTSDQLEKKFNIFYKDYEDRNEYCDLLNEAIRKDKENLQKN"

ORIGIN

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61 atcttttaga ctaagccat actcatcaaa taaataatct aaaatagaaa aatcattatt
121 atttgctcca caagtgcgag ctgctctcat tatcaaataa taaggatcaa ataaaggata
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241 taaaatctct tttacttttag ctaaattatt atctcttata gcctcaagaa ctaaactctc
301 taacttatcc ttttcctcat aactcatagc cttaatatct tctaattgtt tcattgtttgc
361 tcctttaatt tttttgtagg ttttcttttt ctttatcctt tcttatggct tcatttaata
421 aatcacagta ttcattacga tcttcataat cttataaaaa gatattaaat ttcttttcaa
481 gttgatcgga agtcattgca cctgcagctt ttaaaag

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//

LOCUS OIDGCHHC_33 504 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..504
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

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121 ggatataagc atagattaa gcttctttgt aaatgctagg attatcttcc atgtatctta
181 ctacaatata tttatcatta gcttctttga tatatttcat atctgtaaag caaaaattat
241 atttaagatc ttttagactt aagccatact catcaaataa ataatactaaa atagaaaaat
301 cattattatt ttcttcacaa gcatatgcag ctctcattat caaataataa ggatcaaata
361 aaggatattc ttcattttca tttttaaaat gaagctcata acaagaaatt tttacaggat
421 aatcttttaa aatctctttt acttttagcta aattattatc tcttatagcc tcaagaacta
481 aatcttctaa cttatccttt tcct

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//

>>BfR-CA-15839_min_cov_30 putative plasmid location

LOCUS BKOFBKEE_1 7180 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
FEATURES Location/Qualifiers
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/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
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/locus_tag="BKOFBKEE_00001"
CDS 348..851
/locus_tag="BKOFBKEE_00001"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:BKOFBKEE_00001"
/translation="MKILEKDFDLICKIYIQWKELNNNIKKFSSRGVNFPCISEPIV
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DLAYIYDLELNFEQFQILEVNKKETVLDQQKQNRPRRLSLIQYIEKEKIEPLYVDFI
KKIVTKN"
gene 921..1844
/locus_tag="BKOFBKEE_00002"
CDS 921..1844
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/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:ASE91810.1"
/codon_start=1
/transl_table=11
/product="DNA (cytosine-5-)-methyltransferase"
/protein_id="Prokka:BKOFBKEE_00002"
/translation="MKVASFFAGVGGIDLAFSNHDIVYVNEIDKNATKTYKFNFDFEI
DCRDIQTVNEKELPDFDILLGGFPCQAFSVAGYRKGFEFSRGNLFFDIIRIAKEKKPK
IIFLENVKNLVSHDCGKTFNIIILKSLESLGYVVKYDVLNAMHYGNTPQNRERIYIVCF
KNKKQYKDFNPNPIFLNNKIDNIVDFNLKVDDKFYYTEKNFKHYEMLLQNITKKNVI
YQWRRKYVRENKSNVCPTLTANMGTTGGHNVPLVLTKHGIRKLTPEKCFMFQGFPNYSYK
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CDS complement(2128..2328)
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/inference="ab initio prediction:Prodigal:002006"
/codon_start=1

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VKESALQIGMGVNQYIRYKLFII"
gene complement(2329..3009)
/locus_tag="BKOFBKEE_00004"
CDS complement(2329..3009)
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/inference="similar to AA sequence:RefSeq:ASI88294.1"
/codon_start=1
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/protein_id="Prokka:BKOFBKEE_00004"
/translation="MIISICNEKGGSGKSTLAVNLSRLTEDGDSILLFSDPQRSTE
VFINIRNNSNLKQNFKHSFDINLLNSGFKNELNNYDAIIIDTGGDRSREMRKAMLLSN
VIIIPTIASQYDVSVDHMLNIYKEVKLINKNIILLILINRVSPNPFLIKELNNLIDY
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QILKNKDK"
gene complement(3589..4917)
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CDS complement(3589..4917)
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/inference="similar to AA sequence:RefSeq:APA51640.1"
/codon_start=1
/transl_table=11
/product="mobilization protein"
/protein_id="Prokka:BKOFBKEE_00005"
/translation="MSYDEIEKVKRSAYTKTASESTKRNYISSGNFKKSTSFQVFHNA
NVRPDYAIGGELVFDLGGYEAL ELKNKIVSEAKEAYEKNKSPKAPKFKAKSYEWSLVV
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KETGKNNFRREKISPKVLR EIQTEIAEILGMERGEDKRISGAKRIEPRAYAALKEKEK
REKKRNINLEQEQEKEQFLNKSEYKKIIENFRKSQINQGLDKDFFKELSELKKNFQEI
KEDNLS ELLNDILREHLERIEK LKKENSILKAENELLKQKEPKNDNNIDQEQKNASER
NFEPKNDNNTEDKKIFFEKLATYRLNEGLSKIYSKPLKRIVEPETEAKKKERIKILTE
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gene complement(4921..5085)
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CDS complement(4921..5085)
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/inference="ab initio prediction:Prodigal:002006"
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/protein_id="Prokka:BKOFBKEE_00006"
/translation="MDYEKYSKMNL RQLINAYTNAEKKEKLLIDDFQKKLDENKNLME
FLKTKIKESL"
gene complement(5488..5823)
/locus_tag="BKOFBKEE_00007"
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KRREVFHIA"
gene complement(5820..6857)
/locus_tag="BKOFBKEE_00008"
CDS complement(5820..6857)
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/inference="similar to AA sequence:RefSeq:ALW35761.1"
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IYANDFKINQKLSNSREYLTENINSLKYKFFKANFKQIIETKTEVIHKYVNLFETMEI
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YRLKQFRRTTGKARFEWEEFCRIMDIPQDYRQSEIDKRIKPAIKELSKERNLFDQMR
VPFKNLAYEKEKAKGRGQGGKVSGITFTFKPENIEMQKLENESQKIMSDEQKYLKILN
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ORIGIN

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1 catgttaagg gtatattgtc aatatttgtc cccttaatac ctacaatttg tccccttaat
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181 aaagatgcct aaaaataata aaaataataa aaaaatagaa aaatattacc atagtttcta
241 aatctactaa atatattatg atttattgta ttcttacaat gaaatagtag taaatcgaga
301 tttaaaaata ttttgtatat aatattttaa gtttagacgc aagttgtatg aaaatacttg
361 aaaaagattt tgacttaatt tgtaaaattt atattcaatg gaaagaatta aataataaca
421 taaaaaaatt tagttctaga ggtgtaaatt ttcctgattg tatttccgaa cctatagtat
481 gctatgcttt caactataat tgggaataaca ataacgaaac aggagatgct actagtgatt
541 caggtgaatt aatagaaata aaagcgactt cgaatttcga tagcgattta agttcttttt
601 cgccaaatac taaatttgat aagctaattt ttgttagatt agatcaagaa agggatttag
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901 aattataatg gagataaaat atgaaagtgg cttctttttt tgccggtgta ggtggtattg
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1381 gaatttatat gtttgtttt aaaaataaga aacaataata agattttaat tttccaaacc
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1741 gttataaatt acctgatata gcaaatagcc atttatataa acaagcagga aatagtgtat
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1861 tatttggtaa acaaccttta tatgattttt aaaattaaaa aaattctgat ttaaaatata
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1981 taacttttta cctcgaaact taaatataaa acaaaatgta ttaaaacaat ggagtagcca
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2161 aactcccata cctatttgca aagcactttc tttcacacgg tcatactcat cctgtgtgaa
2221 actaaccaat atttttttat ctcttttttg tgtattaatt ttatctccac gagcattatt
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4681 ggcttctthc gcttccgaaa ctatcttht tthaaagctct aaggctthcat aaccgcctaa
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4861 actthgctgth tthgtgthaa cactthttht aactthtthca atctcatcgt aagacattth
4921 ttataaactt tctthgattt ttgtthtthaa aaactcattt aaattthtth tctcatcaag


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>>BfR-CA-15840_min_cov_30 putative plasmid location

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LOCUS      HKBNLMBC_1                4687 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
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SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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>>BfR-CA-15842_min_cov_30 putative plasmid location

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ACCESSION
VERSION
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SOURCE     Campylobacter species
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            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
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CDS complement(5665..6306)
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gene complement(6390..7070)
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CDS complement(6390..7070)
/locus_tag="BDFFJJMB_00005"
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NNHWNKESKRFYHAINDKREAGKALIEGIGISEFQnQDGSksfYLDTHIKLSNNEIKE
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gene      complement(7146..8027)
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CDS      complement(7146..8027)
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ILEILNNIINIGLNNLTDENTKEGIFKDLQNFfKLKtNIKTLISYfKNPPSQEELEI
INKTLLMKKELETlnSSfLNLKIEDFAQQVtQLRALLDNfLVNFDNTLLESLNSALKt
GDDNLKDFKEKIELRLSSSLQTYDQfLKLfLEKEKKAILDFSQIFSRITKNIKRALIT
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ILNKDENGihITLQGGE"
gene      complement(8027..8785)
          /locus_tag="BDFFJJMB_00007"
CDS      complement(8027..8785)
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gene      complement(8782..9213)
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CDS      complement(8782..9213)
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gene      complement(9197..10993)
          /locus_tag="BDFFJJMB_00009"
CDS      complement(9197..10993)
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CDS /locus_tag="BDFJMB_00012"
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gene complement(14053..14721)

CDS complement(14053..14721)
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 /inference="similar to AA sequence:RefSeq:ADT73526.1"
 /codon_start=1
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 /product="type IV secretion system protein VirB8, putative"
 /protein_id="Prokka:BDFJMB_00013"
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gene complement(14744..15190)

CDS complement(14744..15190)
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gene complement(15180..16190)

CDS complement(15180..16190)
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 /inference="similar to AA sequence:RefSeq:ALW65300.1"
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FTQTILVIAAPLMFYCLLYKSTKNVFTQWLALLISNTLLVLFMSLFFKVFKEIYRFA
RYAQDQYMNADADAFFIGISMIFSSVLLVAMIFVAKVFAEKVGSVALDSAMQSVFSRV
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gene      complement(16222..16776)
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CDS       complement(16222..16776)
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gene      complement(16790..17707)
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CDS       complement(16790..17707)
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LSDKSKETFEEKFTLFDRCNASYLSEERKRICRMDMITYAAQVEHYNQASIQVNTVAKS
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gene      complement(17752..18096)
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CDS       complement(17752..18096)
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gene      complement(18093..20867)
          /locus_tag="BDFJFJMB_00019"
CDS       complement(18093..20867)
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gene      complement(20871..21131)
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CDS      complement(20871..21131)
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gene      21417..21896
          /locus_tag="BDFFJJMB_00021"
CDS      21417..21896
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VLPKQYFQYKNIDIFKAMDLFKETLLFKELTEQSIKIDFEKREFVMPDFFIKHDIEI
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gene      21893..22339
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CDS      21893..22339
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gene 22336..22773
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CDS 22336..22773
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gene 22782..22940
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CDS 22782..22940
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gene 22952..23260
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CDS 22952..23260
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gene 23264..23638
/locus_tag="BDFFJJMB_00026"
CDS 23264..23638
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gene 23635..24147
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CDS 23635..24147
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gene 24144..24701
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CDS 24144..24701
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gene 25217..25888
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CDS 25217..25888
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gene 25890..26111
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CDS 25890..26111
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gene 26219..26821
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CDS 26219..26821
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gene 27023..32803
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CDS 27023..32803
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<https://github.com/tseemann/prokka>.
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gene 3571..4017
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gene      8908..9597
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gene      complement(11080..11412)
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gene 17808..18128
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gene /product="hypothetical protein"
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gene      19205..19360
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2941 cttttgcaat ttcaaaatca atcttttgca ttttagcagg agttaaaaaa actccagttc
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3421 actagaaaaa taaaatgcca aaaatataaa tactgcagat aaaaccaaag gaatggcatt
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4621 ctataggata atacaataat atc

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LOCUS IKNDEOKD_4 1042 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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gene            77..589
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CDS             77..589
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gene      601..894
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CDS       601..894
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ORIGIN

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901 aatttataaa gaaagaaagg aaaaacaatg aaaacattag aagaattaat agctttagaa
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>>BfR-CA-15848_min_cov_30 putative plasmid location

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LOCUS      IHOPMAOI_1                21417 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source    1..21417
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            /mol_type="genomic DNA"
            /strain="strain"
  gene      complement(124..432)

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CDS /locus_tag="IHOPMAOI_00001"
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gene complement(526..624)
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CDS complement(526..624)
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gene complement(669..1271)
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CDS complement(669..1271)
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gene complement(1291..1608)
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CDS complement(1291..1608)
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 KNR"

gene complement(1601..2029)
 /locus_tag="IHOPMAOI_00005"

CDS complement(1601..2029)
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 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
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gene    complement(2026..2130)
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CDS     complement(2117..2737)
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gene    complement(2958..3731)
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CDS     complement(2958..3731)
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        INFWAHNTLTVRLFDETLGGNNFYDIASSWINNPFKFKDFLEFIYACLILGYKGYNE
        AKDRDEKIIHFCNNIATSLRPVYKTEEELAFNKAYKIGLEENIWQKFIRLYFKKLIII
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gene    complement(3728..4309)
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CDS     complement(3728..4309)
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 EALKLGANPNMRSIKTENEF SFGAGETLLHQAAESDEKPIGACVEVLIKYGADVNA
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gene 8358..8651
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gene 9596..11527
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CDS 11527..12792
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gene 13002..13694
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gene 13707..14051
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CDS 13707..14051
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gene 14850..15125
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CDS 14850..15125
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LOCUS IHOPMAOI_2 7392 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

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LOCUS IHOPMAOI_3 1938 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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LOCUS IHOPMAOI_4 830 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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ORIGIN

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421 aaaatacctt agcactttat tataatactc ctcatcfaat ttaccacat tagcttggtta
481 aatctctggg tctagcttac atatttcttt aaacttataa aagcttggct ctaaataata
541 agaataagga gtataataaa agataattaa gcctatactt ccaagaaaga ctaaaaactt
601 tgaaacgctt tttgtagatt taaagatgat tttataaata aattttaata taagataaga
661 aagaatagta gaaattataa caagaagtaa tatatatgtc ataggttatc tccttagact
721 ctctatttta ttaaaattaa gatgtaattt tgtggtttag tgttagcagt ataacttttt
781 ctttatcatt aaaataatag agcttgtttt ttcatatatt tttatccttt
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>>BfR-CA-15849_min_cov_30 putative plasmid location

LOCUS BGIOAKBI_1 3741 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
FEATURES Location/Qualifiers
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/mol_type="genomic DNA"
/strain="strain"
gene complement(66..242)
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CDS complement(66..242)
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YLNKKEFKLIKSIK"
gene complement(239..697)
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CDS complement(239..697)
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gene complement(744..917)
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gene      complement(1609..2076)
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gene      complement(2445..2750)
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          /product="hypothetical protein"
          /protein_id="Prokka:BGIOAKBI_00007"
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gene      complement(2909..3421)
CDS       /locus_tag="BGIOAKBI_00008"
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ORIGIN

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1 tttagaataa ataggaatth gcaaatttac tcctaataa gataaattgt tttattataa
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361 taaatatcaa aatataagca aaatatggat tataaaaaata gacaatagtt gttaatatg
421 ctaatatata tgaaatagta ttttctttat agagtaaatt taacaataaa ataaaccaca
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1261 caatttgctc gcttggtata ttgtctattc ctttactttc tagttttgct ttgagtttag
1321 aataaatagg aatttgcaaa tttgctccta atatagataa attgttttat tataaactaa
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1441 ttcacttatt ttatctaact catcaggact tttgcctttg gtaagtccta aaaaggcgtg
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1561 atggatcaat ataaattggt gcataatatt tcatttataa aatcctttct aatagtttgc
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1681 cataaacttt ctttaaaaaa tggatattaa gaaaaaact cctataccac aacaaccaac
1741 aataaacaag cttaaactag aaaaataaaa tgctaaaaat ataaatactg cagataaaac
1801 caaaggaatg gcattgtaaa tatataatag attaaacatt atacaagaat atataataat
1861 aaataattcc attgcatttc tatcaaatat taataaaaaa aaattcttat catatttacc
1921 ataactaatg taaatgtagt gaaaagttag aataatataa gtcaccaaag caagaatcaa
1981 gctacataca aaccaagcaa tttgccact tgatataatt tctattcctt tactttctag
2041 ctttgctttg agtttagaat aaataggaat ttgcaaattt actcctaata taacaagtta
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2161 aatcatcatt aaattcacia ggctctttag cttcatttat tttatctact tattctaaaa
2221 gaggaaaaaa ttggataatg tcattaaaag atagggctat gtcttgaacc gagtcaataa
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3121 ataaagtaat cattataaaa aatgttaaaa aatttgttcc acatgaatat attaaagtaa
3181 aataataagc ggtaataaca aataatagta gataataaca aatagaaatg aatatatfff
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3361 aaatagcccc aaatcccaa aatatcatcc aaataatata taaacttttt aatattttca
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3481 tacaagtitta gcgtaatttt tgagattggt aatttgagct ttattactca ttttttaatt
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3601 aataataaga aagttctttt ctaaatttaa tagatattat taaaaataat attgtataaa
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LOCUS BGIOAKBI_2 3223 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

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Location/Qualifiers
source 1..3223
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        /mol_type="genomic DNA"
        /strain="strain"
gene 432..764
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CDS 432..764
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        /codon_start=1
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        /translation="MNTLKKIYIIWGMFWTIGLGIFVPTAHGFDSMDFVDFFILALQF
        IAIIWLPPLLIFNIVYFVIKKERYIINTLWILLYPIALILYYMFYHNSFYVTLYI
        FYHYLNKG"
gene 767..1213
        /locus_tag="BGIOAKBI_00010"
CDS 767..1213
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FYDKQKDEFVVGFRGTEGFWNMDTMQDITLSLNGNLQSSPLLEFLE"
gene 1666..2379
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CDS 1666..2379
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LAQNEFDALVILCFNIGIDNFKNSSVAKIINGEKTGYKTLKEAWMAWNKSQNKVMQRL
INRRNAEYKLYTQGGYEKW"
gene 2373..2732
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CDS 2373..2732
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gene 2999..3100
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CDS 2999..3100
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ORIGIN

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421 aaggaaaata aatgaataca ttaaagaaaa tttatatcat ttgggggatg ttttggacta
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LOCUS BGIOAKBI_3 929 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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

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CDS complement(73..378)
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gene complement(397..759)
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CDS complement(397..759)
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ORIGIN

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>>BfR-CA-15851_min_cov_30 putative plasmid location

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DEFINITION Campylobacter species strain strain.
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VERSION
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SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
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LOCUS FHGGBLIP_3 3467 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source

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/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

179..595

/locus_tag="FHGGBLIP_00018"

CDS

179..595

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FNLATYKIHKNHSFYIEANNLNFNLIELFFSNISPLEYAVGYLQKEEIIYNGALEYS

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gene

complement(1152..1400)

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CDS

complement(1152..1400)

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TYLRVLTSSFISDNNDDLFLFSFDMKKLGLKQKKS"

gene

1751..2140

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CDS

1751..2140

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/protein_id="Prokka:FHGGBLIP_00020"

/translation="MDEVQDINACVIDIMLNQQAQKVFIDTFQSIYKFRGAVISLE

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 CDS 2620..2832
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 /translation="MKIIKKLQKDGSLKKQVYYSVHEVAQMHSVTHTTVRLWISRGIL
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 gene 2848..2997
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 CDS 2848..2997
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 /product="DNA-binding protein"
 /protein_id="Prokka:FHGGBLIP_00024"
 /translation="MSSIAKDSHVEMRDFLFNKYNKITFSRKECAEILGISLQTLDRIL
 TKDKK"

ORIGIN

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LOCUS FHGGBLIP_4 2982 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..2982

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(415..1014)

/locus_tag="FHGGBLIP_00025"

CDS

complement(415..1014)

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/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:FHGGBLIP_00025"

/translation="MANLSELRESLTYVIPLQELLENEEDILGEAVNRYIKKSLSHLDL
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DIPVAIENATNKAFDIYDNVLDAILFIFNGTASRIITNFLNSIYERFLHQEILSKFA
IVQKNVKYYNRIIFKILQMVPSSPHTPTLAIPKNTNLP"

gene

complement(1020..1694)

/locus_tag="FHGGBLIP_00026"

CDS

complement(1020..1694)

/locus_tag="FHGGBLIP_00026"

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/inference="similar to AA sequence:RefSeq:CKG88211.1"

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/protein_id="Prokka:FHGGBLIP_00026"

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QCFRME"

gene

complement(1735..2508)

/locus_tag="FHGGBLIP_00027"

CDS

complement(1735..2508)

/locus_tag="FHGGBLIP_00027"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG88190.1"

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IEKLPPKYNLGKIMFEINFMYNTLFFGFTLDKNFICSIPQKEQLLENMINSYKMNL
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gene complement(2519..2971)
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CDS complement(2519..2971)
/locus_tag="FHGGBLIP_00028"
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/inference="similar to AA sequence:RefSeq:CKG88165.1"
/codon_start=1
/transl_table=11
/product="ribosomal protein L7/L12"
/protein_id="Prokka:FHGGBLIP_00028"
/translation="MAKNSHEFVGENKDIEIGANQNTIIHKDEIRNVKGNKKEMVEGH
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ORIGIN

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181 ttaattgaaa gcttagatct tcatttaagg atttaaataa agaattaata acctcatttt
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LOCUS FHGGBLIP_5 2702 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
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/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

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2461 aaaagcacta thcaaaaaaac cthththcatc atthctcatg athaaatcaa gcattgcata
2521 actagathct gctatathth catagthctth gaththgagath athaagthct thagathcat
2581 cagthactth gthctgtata thththcatca cthththataa atthaccath ggthaaataa
2641 tgaaaagath thccgctgth actththacga cthaatgctth aaaaagctaaa thctctthct
2701 th

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LOCUS      FHGGBLIP_6                2651 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source    1..2651
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene      complement(294..668)
            /locus_tag="FHGGBLIP_00029"
  CDS       complement(294..668)
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            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG86895.1"
            /codon_start=1
            /transl_table=11
            /product="methyltransferase small"
            /protein_id="Prokka:FHGGBLIP_00029"

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/translation="MTNMEQINNLKDYTEFVQASYFNFVYTEGQKALGFKISKTRFFK
DKSELEKLDYFKALHDEYNGYLVIDDSFFYAKLNRDLENYKLEIFLKMRLNFIPTL
QVALALLCLMKRQRKLRGINKY"
gene      complement(687..1049)
          /locus_tag="FHGGBLIP_00030"
CDS      complement(687..1049)
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          /inference="ab initio prediction:Prodigal:002006"
          /codon_start=1
          /transl_table=11
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          /protein_id="Prokka:FHGGBLIP_00030"
          /translation="MCKLNELPNNEEKYNKILGYFDKKGIDDFRHLKKYSRIEMWL
CIYYDDTYKTPSNFQEKIEMDNIALKTKNQMSLHKIVDMHISPYWNRTRYILEGNEG
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gene      complement(1441..1641)
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CDS      complement(1441..1641)
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          /inference="ab initio prediction:Prodigal:002006"
          /codon_start=1
          /transl_table=11
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          /translation="MQTKLYFICNYLSIIYFLNYLVTLFVRNYPKKAIDSYILFL
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gene      complement(1687..2055)
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CDS      complement(1687..2055)
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          /inference="similar to AA sequence:RefSeq:ASI87259.1"
          /codon_start=1
          /transl_table=11
          /product="Hypothetical protein"
          /protein_id="Prokka:FHGGBLIP_00032"
          /translation="MIKAYFENNAINVKAFARAHNDVFDKYITKILKSLTKQGSNIDY
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IHNFKKEIKKERVGNLKKI"

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ORIGIN

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181 ttttattttt tatttttaaa aagactttta agataaaata taagataata gaaaatataa
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301 ttattaattc ctcttaattt tctctgtctt ttcataagac aaagcagtgc taaagccact
361 tgtagtgttg gactgatgaa atttaatctc atatctttga gaaaaatttc tagcttgtaa
421 ttctctaaat ctctatttag tttcgcataa aaaaaagaat catctataac caaatatcca
481 ttatattcat catgtaatgc tttaaaatag tccaattttt ctaattcact cttatcttta
541 aaaaatctag ttttagatat tttaaatcct aaagcttttt gtccttcagt ataaacaaaa
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661 ttagtcatta tttattcctt atattattat tgataaagat tgccacaagc aagctcatcc
721 tctataaact caaaattcat attaccctca ttgccttcta atatatacct tctagtattc
781 caatatgggc ttatatgcat atcaacaatc ttgtgtaaag acatttgcac attttttght

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841 tttagtgcaa tattatccat ctctatcttt tcttgaaaat ttgaaggagt tttgtaagta
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961 tcatctatgt cacctaactt tttatcaaaa taccctagaa tcttattata tttctcttcg
1021 ttattaggaa gttcatttaa cttacacata ttcctaaatt gccataaatt aggctctaaa
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1141 aactttgaaa cgcttttttt agatttgtaa ggggtatfff aaaaagaata tgtaactatc
1201 cctaaataat tttagcaaaa ctcccaata ataggatfff aaagcctgca aaaatgactt
1261 tttatctttc ctaatttaaa gtgtaaaaaa tcccaaatat cccaaaatgt ctgttttattc
1321 cctaaaaagt aattaaatat tgtttaaaac gcaattaaaa gcgatatttg attttaaatt
1381 tttatatccc aaaaatgttt ttgatcctat aagatagtta ctttttact taaagtattc
1441 ttatgttttc ttagttatgt aactatcctt ataaaacact atataatcat attttaacaa
1501 ctttttatac aaaaataata tgtaactatc tatagcttta agttttggag gatagttacg
1561 cacaaagcct aatgttacta aataatttaa aaaataaata atagacaggt agttgcaaat
1621 aaaatatagt tttgtttgca taattatcgt attggaaatt ttttattata caaaatattc
1681 aaatttttat atttttttta aattgccaac cttttcttt ttttttctt tttctttaa
1741 attgtgaata tctttatatt ttgatagaga taaattactt ttaacatctt ttatgtgggt
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1861 tttatctcca gtttagcttc ctgtaaattc ttgcttttt gatgaaatgc atatagcctt
1921 cacataatca atattacttc cttgctttgt taatgattta agaattttag tgatatattt
1981 atcaaacaca tcgttgtgag ccctagcaaa agcttttaca ttaatagcat tgttttcaaa
2041 atatgcttta atcatttttt ctcctttaat acttcaattt taattgaagt ttatctttaa
2101 ttgtgataat atttcaatta aaattgaagt attatactat taaaagttag tataagtcaa
2161 gtaaaaaact aattttttat agtatttttg ttaaggttac gattatatgg aagtcttaga
2221 tatattgcaa aaaatgtttg aagctgtagg ggtaaaaaat aaaaatcagt tggcaaaaata
2281 tttaaaaata gagaatagcc ttatagctgg ttgggagaaa agaggaaaaa ttcccgaaaa
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2461 aaaacttaat gtttcggttt ctgctggtag tggcaatgag ttaattgggc ttgaagaata
2521 tgaacagga gaaatgcttg aacttagcaa agcgtttttt aaaacaacac ctaaaaatgt
2581 aaaagcgatt aaagttgat gttattctat gttccaatg cttttgcctg atagttgggt
2641 tgtctttgag g

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LOCUS      FHGGBLIP_7                2243 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..2243
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     21..785
            /gene="trxB_2"
            /locus_tag="FHGGBLIP_00033"
  CDS      21..785
            /gene="trxB_2"
            /locus_tag="FHGGBLIP_00033"
            /inference="ab initio prediction:Prodigal:002006"

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/inference="similar to AA sequence:RefSeq:CKG86288.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:FHGGBLIP_00033"
/translation="MAAGILGDYKYLANDMSQNGFNARFIQATILYIQLSGSSILDK
PNLLGAIYGYADIAVGSGLVGVHKNPLREQQIKTLAKTLKPDEFGMLPFIDEIMGVDW
VIDLNKYDIASDQFGSMYKALRSDVVEGKIKDPRDIDSTYESRREFDRHRGGYKNGML
QGYGTDTPNDWSEERAQLFNDTLILHAKLAALTPPQGYPNAPYYFTPENLEWYYKRHK
LDKLLDPRIPAIYRYNFPRELRAKILKFGEENGIKE"
gene      866..2158
          /gene="trxB_3"
          /locus_tag="FHGGBLIP_00034"
CDS       866..2158
          /gene="trxB_3"
          /locus_tag="FHGGBLIP_00034"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:CKG86288.1"
          /codon_start=1
          /transl_table=11
          /product="thioredoxin reductase"
          /protein_id="Prokka:FHGGBLIP_00034"
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AEKAYYKSLKTKKERYKYL VIRSGIRSVVIDIPYEAIGAVDEKGNVDPKYEELYRTVD
DNKHNLRSSLFHNEWGMAAGILGDYKYLANDMSQNGFNARFIQATILYIQLSGSSIL
DKPNLLGAIYGYADIAVGSGLVGVHKNPLREQQIKTLAKTLKPDEFGMLPFIDEIMGV
DWVIDLNKYRLANDQFGNIYKALRSDVVEGKIKDPRDIDSTYESRREFDRYRVGYRKG
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ORIGIN

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121 aattaagtgg aggaagtagt atactagata aacctaattt attgggtgct atttatggtt
181 atgcagatat tgcagtagga agtggtttag taggagtgca taaaaatcct ttaagagaac
241 aacaaattaa aaccttagct aagactttaa aacctgatga atttggtagt cttcctttta
301 tagatgagat tatgggagta gattgggtga ttgatttaaa taaatatgat atagctagtg
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481 gatataaaaa tggcatgctg caaggctatg gaaccgatac acctaataatg tggagtgaag
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721 atttccaag ggaacttaga gctaagatac tcaaatttgg cgaagaaaat ggcattaaag
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1081 agggcaaaaa tccactttgc ttgaatttaa agattggcaa agtatatatt taaaagatcc
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1261 agatatacct tatgaagcca taggagctgt agatgaaaaa ggaaatgtag atcctaagta
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1381 taatgaatgg ggtatggcag caggaatact gggtgattat aaatatctag ctaacgatat
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1861 aaagggtatg gcgcaaggct atggaaccga tacaccaat gattggagcg aagaagaagc
1921 acaacttttt aatgatactt taataacttca tgccaaactc gcagccctca ctctccaca
1981 aggctatcct aatgcacctt attattttac ccctgaaaac ctagaatggt attataaaag
2041 acataagcct gataaactcc ttgatccaag aatccctgct atttatagat ataatttccc
2101 aagggactt agagctaaga tactagctta tgctaaagaa cataatatca aagattaaac
2161 cacaaaagaa aggaaaaaca aatgcaaaaa acatttcaaa tcgatttaga aaaaagaaaa
2221 gctttagaga attttaaaaa tct

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//

LOCUS FHGGBLIP_8 2165 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..2165

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

117..566

/locus_tag="FHGGBLIP_00035"

CDS

117..566

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/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:FHGGBLIP_00035"

/translation="MVGGGWFPYSLQPSYHEFKEMCKLNLNPNDEHKYNKILSYFGL

NLDTLDWENIKKNSTLLTQGYLEYNSQNDRYMYRYENKSDPRIRKVFLLFFNDSIKLS

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gene

566..931

/locus_tag="FHGGBLIP_00036"

CDS

566..931

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/inference="similar to AA sequence:RefSeq:AVS37480.1"

/note="DUF2974 domain-containing protein"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

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CDS       931..1419
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          /codon_start=1
          /transl_table=11
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          /protein_id="Prokka:FHGGBLIP_00037"
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EQ"

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ORIGIN

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181 tgtgtaagct taatgaactt ccaaatgatg aacacaaata taataagatt ctaagttatt
241 ttggattaaa tttggataca ttggattggg aaaatattaa aaaaaattca acattattaa
301 cacaaggtta tttagaatat aattcacaaa atgatagata tatgtatcga tatgaaaata
361 aaagtgatcc agaataaga aaagtttttt tcttattttt taatgacagt ataaagctaa
421 gcaatcttta taaaatagat tttgaagtat tttggaatga taaaagagat tatattcata
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541 gtggatacct gaaaggaatc aaataatgca ccataaacag caaatacaaa attttagaga
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661 tttacgaaat aaagacaagg aaaaattaga tagttttatt aaagataaca atagaatgcc
721 tacctatacc gacatttctca atatggaata taattcctta tttgatggcg aatttctccc
781 actccaagcc aaacaattct ttgaaagata tgatttatta aaacattgtc ctaatacaaa
841 ttcagggtttt tctgctactc tctttcaaaa caaagaaact aaggaatata ctttagctat
901 taggggaaca gagcctaagg aagtcaata atgaaaaagt ttctgacacc taaaaagatt
961 atcttagctt ttattgcatt atttggaatt tatctacttg gaatccact ttattatact
1021 ccttatgaat tacaaccaag ttattggaag ttttaagaaaa tatgcgaggc tacatttcaa
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2161 tatag

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LOCUS      FHGGBLIP_9                1815 bp    DNA        linear        12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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            /mol_type="genomic DNA"
            /strain="strain"
  gene     82..882
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  CDS      82..882
            /locus_tag="FHGGBLIP_00038"
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            /inference="similar to AA sequence:RefSeq:CKG87105.1"
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            /codon_start=1
            /transl_table=11
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            /protein_id="Prokka:FHGGBLIP_00038"
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            IQYDHTLDQTLQIVAEEFNNGTSLNFTAYNYSNPNLNYTKSYKGEAWYKFIKDNKNN
            STYSIMFNKLNLYDFEIIINGASDLNNIVYILNLLKIVENITGVNKQ"
  gene     879..1778
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  CDS      879..1778
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            /note="Uncharacterized conserved protein%2C contains FHA
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            /codon_start=1
            /transl_table=11
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            /protein_id="Prokka:FHGGBLIP_00039"
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            EFRFVDAKSIEESIKENKKYLEDIEKRNFDEIEIEPRGKTSINFDKNEELKEILKNN
            NYKFIEEEKADDSFLKEIIQRDPNSLGYENILKSLVKNLKDIKTKQSSKLNNNYSPI
            SIKDFESIINNIPLIKSTRLINILALSIAKELYTPIFEEMEENMFIKYLEAAIQNNI
            KEDKILFENLTLKALEKYIKDFE"
ORIGIN
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  121 tataatcagc tttctgatca ttcttggaaat tttatagaaa atcatggtat ttctttattt

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181 aatactgctt ggattaatga agtgtataat ccatttatca atgatattgc gccattttat
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301 agaaatggag tattaatag tttttataaa aaatacttga acaatgtttt agtaaaaaga
361 aaaaataact attctatcaa ttctcaatth gcttcaaaat taaattttct taaagaatth
421 ttagatttta tcaccaatgc aggtaatctc tcaagcctca tactgaatgc taatgataat
481 ataagagtta attttactat tcaaagcctt gatttaagtg cagatttttc ctttgtaaag
541 cttggctaca acaataaaat tattcaatac gatcactctc ttgatcaaac cctacaaatt
601 gtagcagaag aatttaataa tggaacaagt ttaaatttta cagcctacaa ctactccaat
661 cctaatttaa attatacaaa atcatataag ggagaatggg catggtataa gtttataaaa
721 gataataaaa acaattctac atacagcatt atgtttaata ataataaaaa cttatatttt
781 gactttgaaa ttattaacgg tgctagtgat taaataata tagttttatat tttaaataat
841 cttaaaatag tagaaaatat cacaggagta aataaacaat gatagaaaaa gaagaattag
901 gaattactat tgagaattat gacgaatgca ttagtggttc taaagcattt gtatttgata
961 caaagggtgg aactatagga agtggtgatg attgcacttt tcgtattcaa gataaactag
1021 agcaaatcaa aaatacccat gccatagtat cttatgaaga aggatctttt acaattgcag
1081 cttttgaaga ttctgacatt tattataaca agtccttttc tagaatgcca agtggctatg
1141 aaataataat cagcataggc gatattttta aaatcggtaa tttagaatth agattttgtgg
1201 atgcaaaaag cattgaagaa agtatcaaag aaaataaaaa atacttagaa gatattgaaa
1261 aacgcaatca ttttgatgaa attgaaattg aacctagagg aaaaacaagt ataaattttg
1321 acaaaaacga agagttgaaa gagattttta aaaataataa ttataagttt attgaggaag
1381 aaaaggcaga tgatagcttt ttaaaagaaa tcattcaaag agatccaaat tcattaggtt
1441 atgaaaatat tctaaaaagt ttggtaaaaa atttaaaaga tattaaaaca aaacaacaaa
1501 gctctaaatt aaataataat tattctccta tcagtattaa agattttgaa agtattatta
1561 ataataatcc tttaatcaaa tccacaagat tgattaatat tttagccctt agcctaatcg
1621 caaagaatt atactctcc atctttgaag aaatggaaga aaatatgttt attaaatctc
1681 ttgaagctgc catacaaac aatatcaaag aagataagat tctttttgag aatcttacc
1741 taaaagcatt ggaaaagtat attaaagatt ttgagtgatt ttttaactct taatgccatt
1801 ttcttcagca aattt

```

//

LOCUS FHGGBLIP_10 1455 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1455
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene 144..695
/gene="trxB_4"
/locus_tag="FHGGBLIP_00040"

CDS 144..695
/gene="trxB_4"
/locus_tag="FHGGBLIP_00040"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG87041.1"
/codon_start=1
/transl_table=11

```
/product="thioredoxin reductase"  
/protein_id="Prokka:FHGGBLIP_00040"  
/translation="MIYDLHDHYYESLLDEFGLPFLDEIIGADWTIDLNRYKFALDE  
EGRIIWALYDDIEKGLKLDPRVDSTPESRKEFDHYMDGYKNGMVTRFDVDIRNERDE  
RSAKLTMDTLVLSAKLAALTPPQGYPNAPRYYSERLEIIYKRHKLDKLLDPRIPAIY  
RYNFPRELRAKILKFGREENSIKD"
```

ORIGIN

```
1 taggatttaa agcaagacaa caacaagcct tatttttaca agctcaattt ggagataaaa  
61 atgcttttaa gaggtttaggt ttagcagtat tgtgttctaa ttcttttctt acagggcaac  
121 attggaacaa gcttagagca aaaatgattt acgatttaca cgatcatcat tatgagagtt  
181 tgtagatga atttggtatg ctaccttttt tagatgagat tataggagca gattggacga  
241 ttgatttaaa tcgatataaa tttgctcttg atgaagaagg tagaatcatt tgggctttat  
301 atgatgatat tgaaaaagggt aaattaaaag atccaagaga tgtggattct actcctgaaa  
361 gcaggaaaga atttgatcat tatatggatg gatataaaaa tggaatggta actagatttg  
421 atgtagatat tagaaacgaa agagatgaga gatctgctaa actgactatg gataccctag  
481 tattaagtgc caaactcgca gccctcactc ctctcaagg ttatcctaag gctccaagat  
541 actatagccc tgaagacta gaaattattt ataaaagaca taagcttgat aaactccttg  
601 atccaagaat ccctgctatt tatagatata atttccaag ggaacttaga gctaagatac  
661 tcaaatttgg cgaagaaat agcattaaag attaaagtaa cttcataggc agactagcca  
721 ctactataat catagaagat ggtttataca tgggataaat ttaagaaagg ataaaaatga  
781 gtgaaactta taaaatttat acacccaatg gattagcatt agatgtggaa aaagatacca  
841 ataaaatact atttaaagaa aatattaaac ccacaggcaa ttataccgaa gaatattcca  
901 aagctttggt tgaagcacac gacattaaac gaaactcccc ctacaaagac tataaaccaa  
961 tatatctaga tcctaacttt tatacagggc aaaaatccac tctagtagaa tttaaagaat  
1021 ggcaaagcat atatttataaa gatcctatca aagtagctca aaatatcaca aatatttgta  
1081 ttaattatgt aaaaaagggt tttaaagaag ttttaatcga acaacttggc attatatatt  
1141 tattaacaca tccacaaatc gaagttgaag ttaagaaata tggaaaaaaa tattttaagg  
1201 ctataaaciaa ggaaattgct gcaaaaagat tttctacaat taaagaagaa ttatttttca  
1261 ataaaacaaa aatattccttt atggcagaac aagtaaaaaa cggatttgat tatgaaatag  
1321 atcaaaagct tgaagaaat aaagaatttc ttttaaaaag acttttgtct tatttgatta  
1381 ttgatgagaa aagaagtgca actgcttttag aggatataaa agaacaaaaa tatattatag  
1441 atgattatac ttttt
```

//

LOCUS FHGGBLIP_11 1304 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1304

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene 119..250

/locus_tag="FHGGBLIP_00041"

CDS 119..250

/locus_tag="FHGGBLIP_00041"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

```

        /transl_table=11
        /product="hypothetical protein"
        /protein_id="Prokka:FHGGBLIP_00041"
        /translation="MNPQELISQIKDYANIADASYAMLDLIDENDEKGLRKYKYKN"
gene     303..947
        /locus_tag="FHGGBLIP_00042"
CDS     303..947
        /locus_tag="FHGGBLIP_00042"
        /inference="ab initio prediction:Prodigal:002006"
        /codon_start=1
        /transl_table=11
        /product="hypothetical protein"
        /protein_id="Prokka:FHGGBLIP_00042"
        /translation="MKIAMIIISLFLSFLSACAFKEKKASEIETLASNYGGIYIFDK
KIREEILELEKKREEFRSKYLGSEIKVGNETHFVNFSYLKKKFPQILSNGCNYYRSDY
RYKGKAHFGFKDKPEFAYYEDQFKAYMGEENYKLRPYLGMTTYVCEGKKYPVVFAT
MIDYKVKNYGLFGDEGRGFSFSNISRSKSAGGGSFHYFTNGKFIKSDEKYTGQSY"

```

ORIGIN

```

1 gaagaggatt tagcttttca agcattagtc gtaaaagtgc aggcgaggga tcttttcatt
61 attttacc aa tggtaaat tt ataaaaagtg atgaaaaata tacaggacaa agttactgat
121 gaatcctcaa gaacttatct ctcaaatcaa agactatgct aatatagcag atgctagtta
181 tgcaatgctt gatttaatcg atgagaatga tgaaaaaggt tttttgcat atattaaata
241 taaaaactaa atttgattta tataaggat ttgaaataat acaatttaaa aaggagtatt
301 aaatgaaaat cgcaatgata attctaagct tttttcttt agtattttta agtgcattgtg
361 cttttaaaga aaaaaagca agtgaaatag aaactcttgc aagtaattat ggtggaat tt
421 atatctttga taaaaaata agagaagaga tattggaatt agagaaaaaa agagaagaat
481 ttcgtagtaa gtatttgggt agtgaaatta aagtaggaaa tgaaactcat tttgtgaatt
541 tttcttattt gaagaaaaaa ttcccccaa tcctttctaa tggttgtaac tattatcgta
601 gtgattatag atataaaggc aaggctcatt ttggtttcaa agataaaccc gaatttgcatt
661 actatgaaga tcaatttaaa gcatatatgg gtgaagaaaa ctataaaaaa ttaagacctt
721 atttaggtat gacaacttat tatgtgtgtg agggtaaaaa atatcctgtt gtttttgcta
781 ccatgataga ttataaagta aaaaattatg gattatttgg agatgaagga agaggattta
841 gcttttcaaa cataagtcgt aaaagtgcag gcggaggatc ttttcattat tttactaatg
901 gtaaatttat aaaaagtgat gaaaaatata caggacaaag ttactgatga accctaaaga
961 acttatctct caaatcaaag actatgctaa tatagcagat gctagtattg ctatgttgca
1021 atatgtttgg gaaaatatag agcaagatga aaagaataat atttataaag cagataaacct
1081 tacttttggg gataaattaa agcaagatat tgttatgaaa aatagtaaag gggaaaatat
1141 tgtaaaacct aaaaatacaa acacagctta tacttgtgct atacaagctc gttttgaaca
1201 aaataaaata gttaaaatag aacctaaata ttgtatttct cttataaata cttgttttga
1261 tagtaaagaa ataacattgg ataattgat tagtagggta ggat

```

//

```

LOCUS      FHGGBLIP_12                1284 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1284
            /organism="Campylobacter species"

```

```

        /mol_type="genomic DNA"
        /strain="strain"
gene     complement(584..1273)
        /gene="trxB_5"
        /locus_tag="FHGGBLIP_00043"
CDS      complement(584..1273)
        /gene="trxB_5"
        /locus_tag="FHGGBLIP_00043"
        /inference="ab initio prediction:Prodigal:002006"
        /inference="similar to AA sequence:RefSeq:CKG86610.1"
        /codon_start=1
        /transl_table=11
        /product="thioredoxin reductase"
        /protein_id="Prokka:FHGGBLIP_00043"
        /translation="MTGFKARTQAVNFLLIQLGHEQGFTSLYDSYAYRGLTDGIHKNP
LKAQMLKDFAKNPPYDELGMLPFLDELIGVDWVIDANNYDIAYDGAKGNIIWALDDD
LKGKLDPRDIDSTPESRDEFDNYLDGYKNGMTEHYTLEISHDTPEKSANLWLETMLL
EAIKALTPPQGYPNAPYYFTPERLEFIYKNHDLKLLDPRIPAIYRYNFRDLRAKI
LKFGEENGIKD"

```

ORIGIN

```

1  catcacttaa atgagctaag cctctattgg cttctacttc tttgtaaagt tctttatagt
61  ctttattgat taaatttcct ttttcatcta cattacaata agcatcataa ggtatatcta
121 taacagtact tctaagtcca cttcttataa ttaaataatt atatctttct cttttggttt
181 ttaaagattt ataataagct ttttctgctt tagtccaagg agctatgctt cttttgatag
241 gatcttttaa atatatgctt tgccattctt taaattcaag caaagtggat ttttgccctg
301 tataaaaagt aggatctaga tatattgggt tatagtcttt gtagggggag tttcttaata
361 tgcgatcacc ctccaagaga gcttgagaat gttgtttagt gtatgtacca ttgctttttg
421 ccgtaaataa tttttattt gtatcttttt ctacatttaa tattgagcca tctgggtgtat
481 aatctcata agtatcactc atcttttatc ctttctttaa ttaacctata tgcaaaccat
541 ttttcataat gatagtagtg gctagcctgc ctatgtaatt actttaatcc ttaatgccat
601 tttcttcgcc aaatttgagt atcttagctc ttaaattcct tgggaaatta tatctataaa
661 tagcagggat tcttgatca aggagtttgt ctaaattcatg atttttgtaa ataaattcta
721 atctttcagg tgtaaaataa taagggtgat taggatagcc ttgaggaggg gttagggtctt
781 taattttggc ttctaacagc attgtttcta accaaagatt tgcggatttt tccgggtgtgt
841 catggcttat ttctagagta taatgctctg tcattccatt tttgtaacca tctaaatagt
901 tgcgaaattc atctctactc tccggagtag aatctatatc tcttgatctt ttaattttac
961 cttttaacac atcatcatct aaagcccaa taatattacc ctttgcccca tcataagcga
1021 tatcataatt attcgcatac atcaccatc ccaccctat aagttcatct aagaaaggaa
1081 gcattcccaa ttcatcataa ggaggatttt tagcaaagtc ttttagcatt tgagctttaa
1141 gagggttttt gtgtatgcca tctgttaaac ctctatatgc ataagaatca taaagacttg
1201 taaagccttg ttcatgtcct agttgtatga gtaaaaaatt tactgcttgg gttcttgctt
1261 taaatcctgt catagaaagt tgta

```

//

```

LOCUS      FHGGBLIP_13                1228 bp    DNA        linear        12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
ORGANISM   Campylobacter species
           Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
           https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers

```

```

source      1..1228
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
gene        66..869
            /locus_tag="FHGGBLIP_00044"
CDS         66..869
            /locus_tag="FHGGBLIP_00044"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG86263.1"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"
            /protein_id="Prokka:FHGGBLIP_00044"
            /translation="MQKTFQIDLEKRKALENFKNLALLGLGGTMLLNLKEQPLDFNQE
            LTYINTYDKYLNKLDSEFYIPSTLLSLLQLNQKSKEAFYINVLINSDTYKPNLLQYA
            ITQKQEQENVVYALKNDENLNTSFTNLNALKLALKEKNFYLNFDLNSKESLLSFYNQ
            IISNNHLRNYFYFKDNQFFIKKDIKNKILFHSIHSSSIISNYLNLLNGFNTLSKIELI
            KILESLSLYNLSTLMQTMQTIQSKNEYGSKGFDKDGIFLSNMIMNVRK"

```

ORIGIN

```

1 aagatactag cttatgctaa agaacataat atcaaagatt aaaccacaaa agaaaggaaa
61 aacaaatgca aaaaacattt caaatcgatt tagaaaaaag aaaagcttta gagaatttta
121 aaaatctagc tttattagga ttaggcggaa caatgctttt aaatttaaaa gaacagcctt
181 tagattttta tcaagaatta acttatataa atacttatga taagtattta aacttaaagc
241 ttgattcttt ttatatccct tctacacttt tatctttact tcaattaaat caaaaaagca
301 aagaagcttt ttatatcaat gttttaatca atagtgatac atactataaa aaccctttat
361 tacaatatgc tatcactcaa aaacaagaac aagaaaatgt cgtttatgct ttaagaatg
421 atgaaaatct taatacttct tttactaatc ttaatgcttt aaaattagct ttagaagaaa
481 agaattttta tcttaatttt atagacttaa acagcaaaga aagtccttta agtttttata
541 atcaaataat aagtaataat catcttagaa attattttta ttttaaagat aatcaatttt
601 ttattaaaaa agatataaaa aataaaaattt tatttcatag tattcactct tcttctatta
661 taagtaatta tcttaactta ttaaattggtt ttaatacttt aagcaagata gaactcataa
721 aatatttaga aagtttaagt ttgtataacc tttcaacttt aatgcaaact atgcaaacta
781 tacaatcaaa aatgaatat ggctcaaaag gctttgataa agatggatc tttttatcta
841 atatgattat gaatgtgaga ttgaaataag taaatgatag atttagcagg tgtgatttgt
901 taatgaaaat atacatctcc aattgatttg aaaaaatagc aaggttttaa aaaagcaata
961 caagagagaa aatttaaaga atttgggtaa tgcatttgaa tgcaactgga ttttagtaga
1021 tataaattta aataaaaattt atcaagaagt tttttctata aagactatgc attttttaaa
1081 aaaagtattt ttaaaccaaa gtttttacta tgataataaa acctattatt taagaaatta
1141 aacttaaaaa tgaaaatttg attatcaaag ttcttagtga tttttcaaag ctttagaaga
1201 tattataaaa ctcacacagt ataatcag

```

//

```

LOCUS      FHGGBLIP_14                1209 bp    DNA        linear        12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1209

```



```

/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(590..1132)
/genes="trxB_6"
/locus_tag="FHGGBLIP_00045"
CDS complement(590..1132)
/genes="trxB_6"
/locus_tag="FHGGBLIP_00045"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86288.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:FHGGBLIP_00045"
/translation="MLKDFAKNPPYDEFGMLPFLDELIGVDWVIDLNEYQFAYDGDGG
SVKALDEKVRQGKLDPRDIDSTPESRKEFDEEANAYTFGNRMNFSSDIRDSRSKESA
RLFDDLLILHAKLAALTPPQGYPNAPYYFSPEQLEDFYKRQVLDKLDPRIPAIYRYN
FPRELRAKILKFGGEENGIKD"

```

ORIGIN

```

1 catcacttaa atgagctaag cctctattgg cttctacttc tttgtaaagt tctttatagt
61 ctttattgat taaatttcct ttttcatcta cattacaata agcatcataa ggtatatcta
121 taacagtgct tcttatacca cttcttataa ttaaataattt atatctttct cttttagttt
181 ttaaagattt ataataagct ttttctgctt tagtccaagg agctatgctt cttttgatag
241 gatcttttaa atatatactt tgccattctt taaattctac tagagtggat ttttgccctg
301 tataaaaagt aggatctaga tactgggggtt gatagtcttt gtgggggggag ttttccatga
361 tttcccaagc tttgaagagg gctttggaat attctttggt atattttcct gtggggtttg
421 aacttttatc aaaatatatt tcattagttt ttttattaac atctaatatg gaaccatgtg
481 gtgtataaat ctcataagta tcactcatct tttatccttt ctttatttaa cctatatgca
541 aaccattttt cataatgata gtagtggcta gcctgcctat gcaattactt taatctttaa
601 tgccattttc ttcgcaaat ttgagtatct tagctctaag ttcccttggg aaattatatac
661 tataaatagc agggattctt ggatcaagtt tagcgtctaa aacttgtctt ttgtaaaaat
721 cttctaattg ttcaggacta aaataataag gtgcattagg ataaccttga ggaggagtga
781 gggctgcgag tttggcatga agtatcaaaa ggtcatcaaa taatctagcc gattctttac
841 ttctactatc gcgaatatca gaggaaaaat tcattctatt accaaaagta taagcattag
901 cttcttcatc gaattctttc ctgctctctg gagtagaatc tatatctctt ggatctttta
961 atttaccttg tcttactttc tcactctaaag ccttaacact accgccatca ccatcataag
1021 caaattgata ttcatcctaa tcaatcacc aatccactcc tataagttca tctaagaaag
1081 gaagcattcc aaattcatca taaggaggat ttttagcaaa gtcttttagc attttctctc
1141 ttaaaggatt tttatgtcct ccacctgcta aggctacaga agatgagtaa gtagtgagtt
1201 ggtgttcta

```

//

```

LOCUS FHGGBLIP_15 994 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
https://github.com/tseemann/prokka.
FEATURES Location/Qualifiers
source 1..994

```

```

/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(366..908)
/genes="trxB_7"
/locus_tag="FHGGBLIP_00046"
CDS complement(366..908)
/genes="trxB_7"
/locus_tag="FHGGBLIP_00046"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86610.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:FHGGBLIP_00046"
/translation="MLKDFAKNPPYDELGMLPFLDELIGVDWVIDVNKYQFAYDEKGR
VNDALKDDVEKGILKDPREDIDSTPESRWEFDKEMDAYKNGMRTFRDGDNPNHWSKEQV
ERFNDTLILCAKLAALTPPQGYPNAPYYYSERLEFIYKHKHKLDRLEDPRIPAIYRYN
FPRELRAKILKFGEEGIKD"

```

ORIGIN

```

1 gcttcctttg ataggatcct ttaaataat gttttgcat tctttaaatt ctactagagt
61 ggatttttgc cctgtataaa agttaggagc tagatactgg ggttgatagt ctttgtaggg
121 ggagtttctt aggattttat cagctttaa aaccgctttg gaatattcct gagtgtatct
181 gcctgtaggc ttggagttct tattgaaata ttttttatt gtaagtttat ttacctctaa
241 ttctgctgta ttgggaacta gcaccttata aatatcttta ttattaccac tcattgtttg
301 tcctttcctt aattaaccta tatgcaaacc atttttcata atgatagtag tggcctttaa
361 ttactttaat ctttaatgcc attttcttcg ccaaatttga gtatcttagc tctaagttcc
421 cttgggaaat tataatctata aatagcaggg attccttgat cttctaactc atcaagcttg
481 tgttttttgt aaataaattc taatctttca ggagagtaat aataaggggc attaggatag
541 ccttgagggg gagttagggc tgcgagtttg gcacataaaa tcaaagtatc attaaatctc
601 tctacttgct ctttactcca atgatttgga ttatctccat caaatctagt tctcattcca
661 ttcttataag catccatctc tttgtcaaac tcccacctac tctctggagt agaacttata
721 tctcttgat ctttgagtat tcctttttca acatcatctt ttagagcatc attaaactct
781 cctttttcat cataggcaaa ttgatattta ttcacatcta tcaccaatc cactcctata
841 agttcatcta gaaaaggtag cataccaat tcatcataag gaggattttt agcaaagtct
901 ttttagcatt gagctttaag agggtttttg tgtatgcat ctgttaaadc tctatatgca
961 taagaatcat aaagactttt aaagccttgt tcat

```

//

```

LOCUS FHGGBLIP_16 861 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
https://github.com/tseemann/prokka.
FEATURES Location/Qualifiers
source 1..861
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(97..609)

```

```

CDS      /locus_tag="FHGGBLIP_00047"
         complement(97..609)
         /locus_tag="FHGGBLIP_00047"
         /inference="ab initio prediction:Prodigal:002006"
         /inference="similar to AA sequence:RefSeq:AVS37480.1"
         /note="DUF2974 domain-containing protein"
         /codon_start=1
         /transl_table=11
         /product="hypothetical protein"
         /protein_id="Prokka:FHGGBLIP_00047"
         /translation="MNNYNPFNPTYADILNITYKYYLDDNGKPKDGGFFDNGFLGGFEFS
PLQAKQFFSRYDLLKHCNPNTNSGFSATLFGEKRKQINSKTKEKSYTSEYGYINYILAT
RGTEMSSFKDLLVADASLAIGSIPKAQYDDMINFYETCIKDYPQITKKKTLPLQDIL
LEAVLHNSLL"
gene     complement(587..790)
CDS      /locus_tag="FHGGBLIP_00048"
         complement(587..790)
         /locus_tag="FHGGBLIP_00048"
         /inference="ab initio prediction:Prodigal:002006"
         /codon_start=1
         /transl_table=11
         /product="hypothetical protein"
         /protein_id="Prokka:FHGGBLIP_00048"
         /translation="MKNKAVINKLKDENSELAWAAYGYFHLANESYKPEENSKDWKRLK
YFRKLYKNNNLESSKTDEQLQSI"

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ORIGIN

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1 ctatataatc ataaggaggt attatctttc tagctccagg tgcattataa gtatataaag
61 ctttgatatt atttctattc ttatcatcac agatacttaa agcaaagagt tgtgcaagac
121 agcctccaag agaatgtcct gtaatggtaa gagagtcttt ttctttgtga tttgtggata
181 atctttaata caagtttcat aaaagtttcat catatcatca tattgggctt tgggtataga
241 gcctatggct aaagaagcat cggctacaag caaatcttta aaagaactca tttctgttcc
301 tctagtggct aaaatataat tgatatagcc atattcactg gtatagcttt tttctttagt
361 tttactatta atttgttttc ttttttctcc aaataaagta gcagaaaaac ctgaatttgt
421 attagggcaa tgttttaata aatcatagcg agaaaagaat tgttttagctt ggagtgggga
481 gaattcacca cctaagaagc cattatcaaa gaagccatct ttggggttgc cattatcatc
541 aagatagtat ttataggtaa tgttgagtat atctgcgtag gtgggggtaa atggattgta
601 attgttcatc ggttttacta gattctaaat tattgttttt atataatatt ctaaaatatt
661 ttaatctttt ccaatcctta ctattttcct ctggcttata actttcatta gctaaatgaa
721 aatatccata ggctgcccaa gcaagttctg aattatcttt tagcttatta atcactgctt
781 tatttttcat tgttttagtc tttttgaaat atatacaact tattgggaca cttcctaaaa
841 aaaatcctat ccctcatta c

```

//

```

LOCUS      FHGGBLIP_17                804 bp    DNA        linear        12-APR-2021
DEFINITION  Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS    .
SOURCE      Campylobacter species
  ORGANISM  Campylobacter species
            Unclassified.
COMMENT     Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES    Location/Qualifiers
  source    1..804

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/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(86..793)
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
/locus_tag="FHGGBLIP_00049"
CDS complement(86..793)
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
/locus_tag="FHGGBLIP_00049"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG87041.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:FHGGBLIP_00049"
/translation="MTGFKARTQAVNFLLIQLGHEQGFTSLYDSYAYRGLTDGIHKNP
LKAQMLKDFAKNPPYDEFGMLPFLDELIGVDWVIDANKTIATNENNIVIDSQGYIIRA
LEDRVKKGKIKDPRDIDSTPESRDEFDNYLDGYKNGMTEHHYTLTLEISHDTPEKSANLW
LETMLLEAKIKALTPPQGYPNAPRYYSERLEFIYNKHKLDSKLDPRIPAIYRANFPE
ELRAKILAYAKEHNIKD"

```

ORIGIN

```

1 agatttttaa aattctctaa agcttttctt ttttctaaat cgatttgaaa tgttttttgc
61 atttgttttt cttttctttt gtggtttaat ctttgatatt atgttcttta gcataagcta
121 gtatcttggc tctaagctct tcaggaaagt tagctctata aatagcaggg attctaggat
181 caagtttaga atcaagtttg tgtttgttgt aaataaattc taatctttca ggactatagt
241 atcttggtgc attaggataa ccttgaggag gggttagggc ttttaattttg gcttctaaca
301 gcattgtttc taaccaaga tttgcggatt tttcgggtgt gtcattggctt atttctagag
361 tataatgatg ctctgtcatt ccatttttgt aaccatctaa atagtgtgca aattcatctc
421 tactctccgg agtagaatct atatctcttg gatcttttat tttacctttt ttaactctat
481 cctctaaagc acgaataata taaccttgac tatcgataac tatattattt tcatgtgtgg
541 ctatagtttt attcgcatca atcaccatct ctactcctat aagttcatct aagaaaggta
601 gcattccaaa ttcatcataa ggaggatttt tagcaaagtc ttttagcatt tgagctttta
661 gagggttttt gtgtatacca tctgttaaac ctctatatgc ataagaatca taaagacttg
721 taaagccttg ttcatgtcct agttgtatga gtaaaaaatt tactgcttgg gttcttgctt
781 taaatcctgt catagaaagt tgta

```

//

```

LOCUS FHGGBLIP_18 789 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
https://github.com/tseemann/prokka.
FEATURES Location/Qualifiers
source 1..789
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene 144..695
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
/locus_tag="FHGGBLIP_00050"

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CDS 144..695
 /gene="trxB_9"
 /locus_tag="FHGGBLIP_00050"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:CKG86610.1"
 /codon_start=1
 /transl_table=11
 /product="thioredoxin reductase"
 /protein_id="Prokka:FHGGBLIP_00050"
 /translation="MIYDLHDHHYESLLDEFGLPFLDEIIGADWTIDLNKYDFAYDE
 EGRIIWALYNDIEKGLKDPDSTPESRNEFDDAMDGYRNGMKTNFDVDTPNWESE
 QQAALDRDTLVLSAKLAALTPPQGYPNAPYYFTPERLEWIYKRGYLDKLLDPRIPAIY
 RYNFPRELRAKILKFAEENGIKD"

ORIGIN

```

1 taggatttaa agcaagaca caacaagctt tatttttaca agctcaattt ggagataaaa
61 atgcttttaa gagtttaggt ttagcagtat tgtgttctaa ttcttttctt acagggcaac
121 attggaataa gcttagagca aaaatgattt acgatttaca cgatcatcat tatgagagtt
181 tgtagatga atttggtatg ctaccttttt tagatgagat tataggagca gattggacga
241 ttgatttaaa taaatatgat tttgcctatg atgaagaagg tagaatcatt tgggctttat
301 ataatgatat tgaaaaaggc aaattaaag atccaagaga tgtggattct actcctgaaa
361 gtagaaatga atttgatgat gctatggatg gatatagaaa tgggatgaaa actaactttg
421 atgtagatac tccaaatgaa tggagtgaac aacaagctgc tttagataga gatactttag
481 tattaagtgc caaactcgca gccctcactc ctccacaagg ctatcctaact gccctttatt
541 attttacacc tgaagatta gaatggattt ataaaagagg atatttagat aaactccttg
601 atccaagaat ccctgctatt tatagatata atttcccaag ggaacttaga gctaagatac
661 tcaaatttgc tgaagaaaat ggcattaaag attaaaaaat cactcaaaat ctttaataata
721 cttttccaat gcttttaggg taagattctc aaaaagaatc ttatcttctt tgatattggt
781 ttgtagggc

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//

```

LOCUS      FHGGBLIP_19          760 bp    DNA      linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..760
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     complement(420..599)
            /locus_tag="FHGGBLIP_00051"
  CDS     complement(420..599)
            /locus_tag="FHGGBLIP_00051"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:AAW35464.1"
            /note="conserved hypothetical protein"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"

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/protein_id="Prokka:FHGGBLIP_00051"
/translation="MYMGINGNKDKTSNTRSRSKEDMASKIDANADIASETKTPPNFIG
RLATTTIIIEDGLYMG"

ORIGIN

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1 agggatatc tataaccaca gatcttaatc cacttcttat tgccaaatac ttacatcttt
61 ctcttttagt ttttaaagat ttataataag ctttttctgc ttttagtccaa ggagctatgc
121 ttccttttat aggatctttt aaataaatgt tttgccattc tttaaattca agtaaagtgg
181 atttctctcc tgtataaaaag ttaggatcta gatataattgg tttatagtct ttgtaggggg
241 agtttcttaa tatgcatcg gcttcaaaca aagctttgga atattcttcg gtataattgc
301 ctgtggggtt agcatttcct gaaaaaatga ttttattagt atctttatat acatccatta
361 tcaaccatt ggggtgataa atctcataag tttcgctcac tttttatcct ttcttaaatt
421 tatcccatgt ataaaccatc ttctatgatt atagtagtag ctagtctacc tatgaagtta
481 ggcggagttt ttgtttctga tgcaatatca gcatttgcac ctatcttact agccatatct
541 tccttgcttc tacttgtatt agaagtttta tctttatttc catttatccc catatacata
601 gctttaagat tgttttgtcc tatgatattg agtttttcta gtaatcttct ggtttttattt
661 ttatcttcta tacattttcc tgttttatct ttgcttgtat tgtaaattcc attagcaaaa
721 tcttgtaaaa tttgtaaagc ttcattataa gcatggatgg
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//

LOCUS FHGGBLIP_20 738 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers

1..738

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(353..706)

/gene="tssI1"

/locus_tag="FHGGBLIP_00052"

CDS

complement(353..706)

/gene="tssI1"

/locus_tag="FHGGBLIP_00052"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:A0H52008.1"

/codon_start=1

/transl_table=11

/product="type VI secretion system, secreted protein"

/protein_id="Prokka:FHGGBLIP_00052"

/translation="MKGENKLLIEKSLTQTIEKEFFLNHVQNLSAHIQDNTSLKSNM
QTKIEEQYSLESDNSTFDFQTDCEVKAGNQILHQVGDQIVTRKDCVVIKAGGVEVVI
DSNGLVVRGGEVKAE"

ORIGIN

```
1 caaaaaaagt tcctaaagga aaaaccaaat catttttgat ataatactca atcacaagtt
61 tttcttttgt gatataaatt cttttaatat ttgccattct atagatcttt tgtgcaagtg
121 catatatgcc taaaagaaat gtaaaaaaaa ctataaacca tttataatct atttctttgc
181 taggattaaa taatctagga aataaataaa gaaaaagaca taaaagcaca atatatgtta
241 tccaaaaaag caaaaacgaa ggtatatgct tttttccttc ccaaatgatt tcatcttggg
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301 tgtcttgctc tttgatttct gtgttattgt ttatttcact catttttatac ctttactctg
361 cttttacttc tccacctcta accacaagtc cattagagtc tatcactact tcaactccac
421 ctgctttaat gataacacaa tctttcctag taacaatttg agtatcacct acttgatgga
481 ggatttgatt gcctgctttt acttcacaat ctgtttgaaa gtcaaaagtt gaattatctg
541 attctaaaga atattgctct tctatctttg tttgcatgga attagacttt aaagatgtat
601 tatcttgat gtgggcggat aaattttgat ggacattaag gaaaaattct ttttctattg
661 tttgggtaa agatttttct attaataatt tattttctcc cttcacattc cttatctcat
721 ctttatggat aatagtat
```

//

LOCUS FHGGBLIP_21 699 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers
source 1..699
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(288..467)
/locus_tag="FHGGBLIP_00053"
CDS complement(288..467)
/locus_tag="FHGGBLIP_00053"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:AAW35464.1"
/note="conserved hypothetical protein"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:FHGGBLIP_00053"
/translation="MYMGINGNEDKTSNTRSRSKEDMASKIDANADITSETKTPNCIG
RLATIIIIEDGLYMG"

ORIGIN

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1 gatcttttaa atatatgctt tgccattctt taaattcaag caaagtggat ttttgcctg
61 tataaaagtt aggatctaga tatattgggt tatagtcttt gtagggggag tttcttaata
121 tgcgatcggc ttcaaacaaa gctttggaat attcttcggt ataattgcct gttggtttag
181 ctttcctga aaaaatgatt ttattagtat ctttatatac atccattatc aaccattgg
241 gtgtataaat ctcataagta tcaactcatta tttatccttt cttaaattta tcccatgtat
301 aaaccatctt ctatgattat agtagtggct agtctgccta tgcaattagg cggagttttt
361 gtttctgaag taatatcagc atttgcatct atcttactag ccatatcttc cttgcttcta
421 cttgtattag aagttttatc ttcatttcca tttatcccca tatacatagc ttttaagattg
481 ttttgcctta tgatattgag cttttctagt aatcttctgg ttttattttt atcttctata
541 cattttcctt cttcatatth gacaatataa agtccattag caaaatcttg taaaatttgg
601 aaagcttcat tgtaagcttg aatggctgtt aaattgattt catcattaac ttctttataa
661 tacttttcta atgtagtggt ttttaggata taaatttca
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//

>>BfR-CA-15855_min_cov_30 putative plasmid location

LOCUS JOBBOHMI_1 28513 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
 <https://github.com/tseemann/prokka>.
 FEATURES
 source Location/Qualifiers
 1..28513
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene complement(198..1001)
 /locus_tag="JOBBOHMI_00001"
 CDS complement(198..1001)
 /locus_tag="JOBBOHMI_00001"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:JOBBOHMI_00001"
 /translation="MKHFIFGVNQKSKKLSLALISSLIIGNNAFAGGIPVIDVSAIAN
 QVKDYAMQLQQYEQMYSQLQQQIQMVQMVKQNLRLTKEDWDNLGTVLYQTRNVMNKV
 NGISYDIGNVSRKFEDTYKDFEGYSNDLENATNESEKNKIYSDRYKQIAETNQNTFNG
 TLQQLELRYQDLESEDALIAKQNSQNSGNLQAVQATNDLLAYQIDEIRKLRSVIM
 DQSNMLTNYLASQNNQRIMQQAIDKFIEDTGYIEKTWKGKSNPDALKWK"
 gene complement(998..1603)
 /locus_tag="JOBBOHMI_00002"
 CDS complement(998..1603)
 /locus_tag="JOBBOHMI_00002"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:JOBBOHMI_00002"
 /translation="MLDLLKGVMSNTSIININNQEVIKDEQVFCTSLDVAKVFG
 KQKHILELIGEFNNEIKNFCEPNFRLSFKTRKIEGFRGRERKYPYQLTKDGFSS
 IAMGLTGRKADKFKIAFINAFNEMERIIKNQYTPKLNKYNKYKIPNTPYKENIIKAIM
 QTEQNRNCFEELIAYEITETYKDNKSHIEQKINFKVKGLI"
 gene complement(1588..2259)
 /locus_tag="JOBBOHMI_00003"
 CDS complement(1588..2259)
 /locus_tag="JOBBOHMI_00003"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:ASI88311.1"
 /codon_start=1
 /transl_table=11
 /product="IncQ plasmid conjugative transfer protein TraQ"
 /protein_id="Prokka:JOBBOHMI_00003"
 /translation="MKNFIFGVKKITLALSATLLISSNAFADDILTGDTKLACEAILC
 LSSGTRPSECSSSLARYFSIKFKKPWETINARRAFLNLCPIQNDANIEDLVLNVLVDD

VLPVSDPRQCTPNYLNTQVETKRSYSTFGIMSYRINPNMPNFCHALINHAYTDYKTPK
 YKCTGEFYNSLEWKLSAKLQLITQQAYESLSDQRYMISRTCGDRNCYDYYQKIPFTK
 ECWTY"

gene complement(2256..4721)
 /locus_tag="JOBBOHMI_00004"

CDS complement(2256..4721)
 /locus_tag="JOBBOHMI_00004"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:ASI88309.1"
 /codon_start=1
 /transl_table=11
 /product="IncP-type conjugative transfer protein TrbE"
 /protein_id="Prokka:JOBBOHMI_00004"
 /translation="MLALKEFRSKAKAFPDIILNYASFIDEIGILLNKDGS�TAGFYIRA
 GDISSMTINERNTLSARINSVLKTLGNWAVHIDCSRIKTENYIDGDTFYKNNIAQIL
 ENERKHYFDNVEHFENLFTMIFTYLPPhKSINKITDLMIIDETKNKNQGDKILEYFKN
 TLQKLEDSLSNYIKIERMLPRIAIDEYNNYILDDMLEYINFCICGERQKIILPNAPM
 FLDCLLGGRRHFETGMHPRIDNQCIGIIAIEGFPSESYPNILNALTELNFDRFNTRFI
 FLDDFEAQNSLNKYRKKWQKTKGWLQQLDRPARKQDDHAVLMVQELDSALSESKSG
 MIGYGYTANIVVFRDRYESLEYKLDVRKVLNGLFLSRTETINSVEAYLGTLPGFV
 YPNLRRPILNLTNLTHLIPLASIWAGDKYNSSERFPPNSPPLMQVVTSGNTPFRLNLH
 VSDLGHTLIFGPPGSGKSTLLANIFLAWQKYPNAKIYAFDKGQSLLAPTATGGIHYD
 VAGDHSSLAFAPLANIKTDAEIAWAEFWIETCLKLQNVNITPKQKLIHEALISHINT
 NSTSLTEFVSALQSDLRDALNYTISGTGGFLFDSEEDKLSLSSITTFEIEELMNLG
 DQYIIPALLYIFNRIEKGLDGSPTLLIIDEAWIALKHPAFKDKIVNWLKVLKANKAV
 IMATQSLSDSAKSGILDILQEYCPTKIFLPNPEAYKKGSENVLAPYDFYKIFGLNDVQ
 ISIINNAIQREYYTSPGLTRLFNLALGKTNLAFITISDKVSVKRVRLYEKHKENW
 AYKWLEEKEINYKRFDNSQKEQI"

gene complement(4725..5012)
 /locus_tag="JOBBOHMI_00005"

CDS complement(4725..5012)
 /locus_tag="JOBBOHMI_00005"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:ASI88308.1"
 /codon_start=1
 /transl_table=11
 /product="IncP-type conjugative transfer protein TrbD"
 /protein_id="Prokka:JOBBOHMI_00005"
 /translation="MEELQRIDIYSALNKPNLIFGADRELILMVGVISFALIFTGATL
 LTSIIGIFLFFFCNMLLRMAKSDPLMRQIFLRQIKYKFFYYAQSTPFSDK"

gene complement(5012..5308)
 /locus_tag="JOBBOHMI_00006"

CDS complement(5012..5308)
 /locus_tag="JOBBOHMI_00006"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:ASI88307.1"
 /codon_start=1
 /transl_table=11
 /product="Conjugative transfer protein TrbC"
 /protein_id="Prokka:JOBBOHMI_00006"
 /translation="MKKFLILFLALGLGYALASTTGAGLPWEGPLEQIKASLSGPVAF
 VISILAIIGAGAGLIWGNFSGFIKTLFYIVIVIALIVGANSFMSLFSTSGALI"

gene complement(5318..6256)
 /locus_tag="JOBBOHMI_00007"

CDS complement(5318..6256)
 /locus_tag="JOBBOHMI_00007"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:ASI88306.1"
 /codon_start=1
 /transl_table=11
 /product="Conjugative transfer protein TrbB"
 /protein_id="Prokka:JOBBOHMI_00007"
 /translation="MSNLEFQARINEKIKREFGDILTHLEDKETIELMLNSDGKLLWE
 KLGQDMICLGEFSEARAKSIITAISTLLDTTTTNADNPILECELPLDGSRFEALLPPIV
 AKPTFTIRKKAVKIFTLGDYVDSNIITPNQKEVLINAIIERQNILVVGGTGSGKTTFS
 NAIIDGISKITPNHRIVIIEDTAELQCASENKVILRATDKVDMLRLLKATMRLRPDRI
 IVGETRGKEALDLLKAWNTGHPGGIATIHANSANGGLTRMEQLISEATNAKMSKLI AE
 AVNLI V F I S K S K E G R K V K E I I K V I G Y E N D K Y I T Q A I "

gene complement(6797..7537)
 /locus_tag="JOBBOHMI_00008"

CDS complement(6797..7537)
 /locus_tag="JOBBOHMI_00008"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:JOBBOHMI_00008"
 /translation="MLFNYEIINCQKPNNTMNIKRTYKVIRCFKKNKTDEASKYYQQA
 WDLAKQVNPLKANDSTSQRDKERLILDALGGILA EYGFYIKRNFQDIVNFTEFKSS
 IGQIDLLLNNGKTL E VRSSFP R N G I N F A I C N A K Y N F K N I C K Y D N L Y K P N E M D K D F F A C
 V L F E T T K N Q M V K A D E I I F Y L I G G S T R K M M L D N T I S Y T D N L T A E D D L I Q Q K T N Y K V I R L
 Y N A L D I E G F E K Y M T E E L G Y P K I L N D Q T F "

gene complement(7527..8444)
 /locus_tag="JOBBOHMI_00009"

CDS complement(7527..8444)
 /locus_tag="JOBBOHMI_00009"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:JOBBOHMI_00009"
 /translation="MNKNSSSKLNNAKNIKND E FYTQYEDINKELNFYKNAFKDRIVY
 CNCDDPQKSNFTKFFKLNFDRLKLLKLISTSFNSNGKGIKIFIEKNKPKYQGLLENNQ
 DFRSDETIKLLKESNIIVTNPFFSLFREFIDMLISNQKDFLIIGNANAISYKNCFNMY
 MKNKLWLGQNCVRFINTKGELVEGARSFWFSNINNQKRK K I S L N R K Y N N Q D Y I T Y D
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CDS complement(8467..8880)
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gene      complement(8877..9791)
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CDS      complement(8877..9791)
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gene      complement(10732..11061)
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CDS      complement(10732..11061)
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gene      complement(11075..11524)
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CDS      complement(11075..11524)
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 gene 12080..14236
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 CDS complement(14701..14895)
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gene      complement(15952..16347)
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gene complement(18597..20420)
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gene complement(20417..22630)
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CDS complement(20417..22630)
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gene complement(23117..23218)
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//

>>BfR-CA-15857_min_cov_30 putative plasmid location

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LOCUS      LBFOAKKB_1          17297 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
ORGANISM   Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.

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gene 6041..7183

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>>BfR-CA-15860_min_cov_30 putative plasmid location

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gene      9615..10175
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ORIGIN

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LOCUS

PIMPEBOA_2

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DNA

linear

12-APR-2021

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DEFINITION  Campylobacter species strain strain.
ACCESSION
VERSION
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COMMENT     Annotated using prokka 1.14.6 from
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LOCUS PIMPEBOA_3 4049 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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LOCUS PIMPEBOA_4 3161 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

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gene        550..1116
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CDS         550..1116
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gene 2171..2803
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ORIGIN

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LOCUS PIMPEBOA_5 2630 bp DNA linear 12-APR-2021
DEFINITION *Campylobacter* species strain strain.
ACCESSION
VERSION

KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
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ORIGIN

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LOCUS PIMPEBOA_6 2407 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

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Location/Qualifiers
source 1..2407
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ORIGIN

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1 gtaacaattt gagtatcacc tacttgatgg aggatttgat tgcctgcttt tacttcacaa
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121 gttfgcatgg aattagactt taaagatgtg ttatcttgta tatgggcgga taaatffffga
181 tggacattaa ggaaaaattc tffffctatt gttffggftha aagatffffc tattaataat
241 ttatffffctc cttcacatt cttatctca tctffatgga taatagtatt ttgattfgca
301 cctatffcta tatctffgtt ttctctaca aactcatgag agttfftagc cactcttact
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421 cctacattga ttaaatattc agcccctaca ttgacatfff tagccaaatc tatggffffga
481 gtatgaacct tfftaatcct ttcattataa attccatcta ctatagaatc tffatcattt
541 aaaatffctff gagtgaatf atgttgcact aatfcattcat aatcctffff ggctfftaaa
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721 cttggattag cccattata caaactagag ctacatagg gttatctat atcatcatc
781 aaaaaagaaa caatcactc atctcccact cttggagtat gaaaaagcc tgaatgattg
841 cttgctatac ttgttgctac tcttaaaaaa ggagtatgat gataagatff ataagcattg
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961 gtattttcat gagtattggt ttttatgttt gcacttaaaa gattattatc taattcctct
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1201 gtattagaat aagacttact taaatttaaa tcttttaaat ttaaattgatc attagtattg
1261 atagaattag ctagtaaagc atcatctatt aagatttgag tattggcaat aataataaag
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1621 tgtaaagata aaagatttaa aggagtatta gcattgatac tagaatgtgt aaaagcatta
1681 gttcttaagc tttgctcttt atagatagaa gaaatacaag cttgatttaa aatattattc
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2401 ttgatga

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LOCUS PIMPEBOA_7 2139 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..2139

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene complement(23..667)

/locus_tag="PIMPEBOA_00044"

CDS complement(23..667)

/locus_tag="PIMPEBOA_00044"

/inference="ab initio prediction:Prodigal:002006"

/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:PIMPEBOA_00044"

/translation="MVRDTSKDEAYFTKHIIECEEKIKKSEKILLELFPKGRETCLFC
ITDRKKCIAMDKYSRGDDINPVKKDLEAYVLLKQKNRLEFAIDIGYYRGNALCLIRV

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LLDMDSACVLELIEEDERKRRDILNRDWF LHFMSGKGNLNLERKCNCKEHELKEFV
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gene      complement(826..1515)
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CDS       complement(826..1515)
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          /inference="ab initio prediction:Prodigal:002006"
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          /transl_table=11
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          /protein_id="Prokka:PIMPEBOA_00045"
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FEHYLEEEDDCISFSVSRVKSMKSDEILCKIIGLDQPNLDFKILNQHGVRSPFSFK
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gene      complement(1516..2133)
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CDS       complement(1516..2133)
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          /codon_start=1
          /transl_table=11
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KRSKKNHCKILFSSTQFNDKDKKRKQLKENQINGKRFEQKDFKIFKKECPNAQSQVT
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ELRGNKVLKYDNKMLKKGDKILSKNVTIKISRPSGITTYKSTKGI"

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ORIGIN

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1  tgggttttta aaccactaa gattaaatta aatcataagg aaagtatttg tattgtttaa
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121 ctagaggatc tcttaatctt gtatgttttt tcatatattg atgtaaaaac tcaatattct
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481 tatcatcgcc acgagagtat ttatccatag caatacattt ttttctatct gttatacaaa
541 aaagacaagt ttctcttttt ccaaaaggaa gctctaaaag tattttttcg gattttttta
601 ttttttcttc acactctatt atatgtttcg taaaatacgc ttcattctta ctagtatccc
661 ttaccatttt ctatcctttt tattatggta tttgtttgat aaaacctaata aagtttatat
721 aatttatgat tataatattt tatatattaa tcaatcttca cataactaaa cttcactaaa
781 actaaaacct aataaattgt tttctcttac acatttttaa aaatcctaac aaagatcatt
841 ttctatagaa tgtttttaaaa catcaaatac ttctatactt ccatcatcat attctatagt
901 aaagtctctt tcttcaatgg ctttttgatt attttttaga atttttaatg cttgttcttt
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1021 ttcatcttct tcataattgt aaataaaatc ataaagccct tttattgtgt tagtagtatc
1081 agtttttaaaa gcttcaataa gagtatctat actttcttta taagctttta aaaaactatg
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1321 ttttactcta aaagaaacac taaaacttat gcaatcatct tcttcttcta aataatgttc
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1441 atattgtgct gaaaatttgt ccagtttttt gcaaaatttt agaacaatat catctaagtt
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1681 tattaaatta aatgctttta tttgattttg tgttagggga gcatctttag atgattttgc
1741 ctccctgata ataattttac ctttacaatg agctattgca tccactctgg ttgtaacaat
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1981 atgatttttc ttacttcttt tacctcctat cccttcccat cttatcctat catactcaat
2041 cttagcaaga ggactagctt gtatttttagc taaagcaaat tgaatcttat tcttttttagg
2101 tatagcaaat ataggatagc cttttatact cactcctat

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LOCUS PIMPEBOA_8 1875 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1875

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

7..630

/locus_tag="PIMPEBOA_00047"

CDS

7..630

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/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:PIMPEBOA_00047"

/translation="MSIKGYPIFAIPKKNKIQFALAKIQASPLAKIEYDRIRWEEIGG

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gene

620..1006

/locus_tag="PIMPEBOA_00048"

CDS

620..1006

/locus_tag="PIMPEBOA_00048"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:PIMPEBOA_00048"

/translation="MKFENLKHGSLFKREFYLDVKIDLRNDFVYSITMNKNTLEIF

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gene

1021..1578


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CDS
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    /transl_table=11
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    /protein_id="Prokka:PIMPEBOA_00049"
    /translation="MTREQAELIIKEEKLIDTDWYPSYKHSGEFHLTMMWFSDNNKYE
TFYVGERGSVELEYSFDSEKEAIDKMLQMNYEQKKYDGKDIKEYLTKEVALRIIKEEN
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ORIGIN

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241 caagaagttc atctttataa acataatgga atatggccta aaattactcc aaaacctaga
301 agttctgatt atattcttga agatggagag attattttta acatcaaca aagagccatg
361 gaaataaaaa atacctttaa tggagggtat aatagtattt ctataaagac aaaagataaa
421 cttaccagat atgattttaga tggtaaacca cattatgaga agacatcaa gaaaataatt
481 gatacacctc ataaaataga atatactaaa catataaatc ctcaagatac aacaaagtat
541 agaatgtcac agggagcagt agagccaata tctcataaag atttagatat tgtagaaaat
601 tatttaaaaa ggcaaaataa tgaatttga gaattttaaag catggaagtt tattcaaaag
661 agaattttat cttaaagatg taaaaataga ttttaagaaat gacttttatg tttattctat
721 cacaatgaat aaaaacactt tggaaatatt ttttaaatca gagaaaaaag atatacaaga
781 tttgcaaatt attttttatg attataagtt gctacatcca aaatcatatt gtaaaaattt
841 taatcaatta gaagctaatt ttatagattt gataagaaat aattgggatg atataacagg
901 ctatattgaa aaagaagaag agatgttgat aagcatatat tttgataatg atttagaata
961 tattacttta acttgtaagt attttaatat agattttata gactgaataa aggatagaaa
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1141 aataaatatg aaactttcta tgttggagaa aggggcagtg ttgaacttga gtattctttt
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1741 aagggatagg aggtaaaaga agtaagaaaa ataaaaatga tagagcaaag caaatacaag
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LOCUS      PIMPEBOA_9          1821 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS
SOURCE     Campylobacter species
ORGANISM   Campylobacter species

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Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
           https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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            /mol_type="genomic DNA"
            /strain="strain"
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    CDS      67..321
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            /transl_table=11
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            /translation="MLDPLEIEKLSPEYRVRNYFKFLTATMFFLVITFIILPCLLQ
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    gene     440..931
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    CDS      440..931
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            VMY"

ORIGIN
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241  aaattaagtt ggtttatagg gtttgtgtgt aatgctccta tattaattgc gagtgtgtat
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721  accacaagaa tataaagcac gtaattattt tgatttttta ggcggtataa cttttatttt
781  tttagtaatc acatttttta tacttccttg tttattacaa gcttatttat ttaaatgcta
841  tagcacagga gaaaaacgca aaaaattaag ttggtttata gggtttgtgt gtaatcctat
901  attaatggcg ggtgtgtatg tgatgtatta aaatctttaa agacttttaa aaaatttaat
961  atatttgata taatatttat ttatctttaa tatttagaga aaaaatgaat agagaattat
1021 ttataacaag acttgcattt ataaacaatg atgaaataaa taaaataaat aaaaattcat
1081 ctattgcata tttaaaagcc ttatatcaat gtgaaaattc catagctgta aattatgatg

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1141 aagaagagct tttcacccaa accactgcta taaacaatct aggatatggc aatgatttca
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1741 gagaattaga tcaagataat actataaaac aagatatacc cagttattat ttttctccta
1801 aagatgaaag cagtggttta g

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LOCUS PIMPEBOA_10 1275 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

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/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

112..609

/locus_tag="PIMPEBOA_00052"

CDS

112..609

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/transl_table=11

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MYIFI"

gene

728..1231

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CDS

728..1231

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YLMYIFI"

ORIGIN

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1 caaaaattca ctccttatgg tttggatntt agactttata gtaaagattt tactactaaa
61 cttgatttta aagataaagc ttataatgtg ctttataata caggagttta aatgggagat
121 agtattacgc tttctatntt ttagagttca ttgctatcca ttgctgttat cacaaaattt
181 tatcttatag ctttatctgt tcttattgtc ttttctatntt taaattattg gattaagatt
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301 attgttatca tattttatct tacctatggg attgaaactt ctaaggatct tgcattgctt
361 agctctctag aagctaaaga attatcaccg caagaatata gagtgcgtaa ttattttaaa
421 tttttaacct ttgcaactat gtttttttta gtaatcacat ttattatact cccttgntta
481 ttgcaagctt atttatntaa atgnttatagc gcaggagaaa aacgcaaaaa attaatgntg
541 tttatagggg ttgtgtgcaa tattattata ttaattgcaa gtgcatatntt gatgtatata
601 tttatntaaa gactatcaaa aattcactcc ttatggnttg gattnttagac tttgtagtaa
661 agattnttatc actaagcttg atntntaaaga taaagcttat aatgtgctntt atgatacagg
721 agntntaaatg ggagaagata ttacattntt tattntnttg gntntnttg gattnttct
781 tgctntntact aatataaaa tttatcttac cactnttaagt gntctnttg tctntntctat
841 tntaaattat tggatntaaa ttaatataaa agaattntgta aatctntat tntcaatata
901 tnttattatc tntnttacag ctattgntat catatntntat cttacctatg gtattgaaac
961 ttctaaggat cttgcattgc ttagctctct agaagctaaa gaattatcac cacaaagata
1021 taaagcacgt aattatnttg gattnttgac ttgtatgact atgntntntt tagtaatcac
1081 atntattata cttccttgnt tattgcaagc ttatntatntt aaacgctata gcacagaaga
1141 aaaacgcaaa aaattaagnt ggntntatagg gntntntatgc aatattnta tntaatntgc
1201 aagtgcata ttgatgtata tntntntta aagactatca aaaattcact ccttatgntt
1261 tggatnttag actnt
```

//

LOCUS PIMPEBOA_11 1237 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1237

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

ORIGIN

```
1 ctccttacag gctccaccga actccctaata atcctntntt actnttgaga attagatcaa
61 gataatacta taaaacaaga tatacccgat tntatntntt ctcctaaaga tgaaagcagt
121 ggntntaggaa gacttagcat cttntntaaa aatgatgaac tntgcttgct taattnttct
181 atattagaca atntntntaa tatcaaatta gaatgcttaa gcaaaacaaag cttagaatac
241 aaagattntaa tntcaaacac tctaaaagaa caaaaaacca cacaaagtaga taaaaaacaa
301 agcatagcca aacttcacgc tctntntagaa aatcaaaacc tagaatgtat ccatggaggnt
361 aaagtcatac ttaaatcaaa caaaggaaaa tcctntntaaa gtgatgntat ccctataatg
421 ctagaaagtg atntntntaa ctctagntata gtagctntgtc ctcacacctat agcaaatgta
481 agntatcctt gtactaagnt agntgntatnt aaagntcctt tatctcaaaa gaaagntaat
541 aatgaatntg taatctntaca agaactcatc tcagctntgca ctacagataa agntntntgct
601 tntaaaagntaa gctntntctc aagntaagntt aaatntntgat acagctntntga tcttgaggag
661 ggctntaggag aacaaagntaa aatcaaaata gntntntaaag agcctntaat aagactntcat
```

```
721 tataaaagtg atagatttca aaaagataat ttgcctattht ataatcttht aatcaataat
781 gaaaaaaaag aacaagataa ggctthtaaat gaattcaata tagaacaaaa agattthaaaa
841 gatatagagg atataaatat cthttaatcaa thtaaacaaag actthtagtaa agatcatgaa
901 thtaagaat taaatcttag cthcgataact aattthaatca agctthtattt cattatcccc
961 aaaaacattg ctaaagthta taaaagtgcct tataaagaat thaaaaacaa agatctagga
1021 gcagggtatt ttacacagct acatgaatat gataaaatca thaaaaattc thtagaagat
1081 aagaaagaat taaacgaata tcattthact thththactc ctgcaaaaat gcaaaattta
1141 aaacttcaa tcgcacaagg attagataaa atctthagaag atgaagatag aaaacaagag
1201 cthtatgtht gtaaatttht ggtggtaaat ggggtta
```

//

LOCUS PIMPEBOA_12 1123 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1123

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(113..265)

/locus_tag="PIMPEBOA_00054"

CDS

complement(113..265)

/locus_tag="PIMPEBOA_00054"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:PIMPEBOA_00054"

/translation="MNENIYGSLEFYKSTQSTPSDKRDLGVFGDVAPYALGITESFT
TKAFKG"

gene

complement(258..890)

/locus_tag="PIMPEBOA_00055"

CDS

complement(258..890)

/locus_tag="PIMPEBOA_00055"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:PIMPEBOA_00055"

/translation="MSEINNTEIKEQDTQDEIIEWEGKKEIPSFLLYWITYIVLLCFM
LYLLPRTFDNTKNFKWVFFIMFLLGIYIFAREIYKMANIKRIYVTKELVVEYYIKN
DLVFPLGTFVYRSLPFG LTPGDMVIYTFGDKVKEYLEPGLFSAGDDPTKGCCEKIN
AIIKPHVMPYLLSLSDEEFKIISHVSGFSEIDTTF LKEAMELRKEKDE "

ORIGIN

```
1 aacaaaacca acacagaaaa aaagctaata taaaataaag agagcaaaaa aacaaactaa
61 aaggaataat thttctctta cthttccaaa gtaaagtaga attattcatt gcttaccctt
121 taaaagcctt agtagtaaaa cthttctgtaa tgcctaaagc ataaggagca acatctccaa
181 atactcctaa atctctthta tcactaggag tgctthtagt thctthtagaa taaaactcta
```

```

241 aacttcata aatattttca ttcattttt ttctcttttc tgagttccat tgcttcttta
301 aggaaagtag tatcaatttc gctaaaaccg cttacatgtg aaatgatttt ttcaaattct
361 tcatcactta agcttaataa ataaggcatt acatgagggt ttataatggc attaattttt
421 tcacaacaac cttttgttgg atcatcgcca gcaactgaata aaccagggtc aaggatttct
481 ttgaccttat ctccaaaggt gtatatcacc atatctcctg gagtaagccc aaatggcaaa
541 ctacgataat atacaaaaaa agttcctaaa ggaaaaacca aatcattttt aatataatac
601 tcaaccacaa gtttttcttt tgtgacataa attcttttaa tatttgccat tttatagatc
661 tctcgtgcaa atatatatat gcctaaaaga aacataataa aaaacacaaa ccatttataa
721 ttcttagtat tgtcaaagt cctaggaagc aaataaagca taaaacataa aagcacaata
781 tatgttatcc aataaagcaa aaacgaaggt atttcctttt ttccttccca aatgatttca
841 tcttgagtgt cttgttcttt gatttctgtg ttattgttta tttcactcat ttttatcctt
901 tactctgctt ttacttctcc acctttaacc acaagtccat tagagtctat aatcacttct
961 actccacctg ctttaatgat aacacaatct ttcttggtaa caatttgagt atcacctact
1021 tgatggagga tttgattgcc tgcttttact tcacaatctg tttgaaagtc aaaagtagaa
1081 ttttctgatt ctaaagaata ttgctcttct atctttgttt gca

```

//

LOCUS PIMPEBOA_13 1121 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1121

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

161..541

/locus_tag="PIMPEBOA_00056"

CDS

161..541

/locus_tag="PIMPEBOA_00056"

/inference="ab initio prediction:Prodigal:002006"

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

/codon_start=1

/transl_table=11

/product="methyltransferase small"

/protein_id="Prokka:PIMPEBOA_00056"

/translation="MQMDKYYKAKGYKRISLNKVKGLDDKIHHEMDGIYYNPDKNPKY
IIAEAKFGTSKLDKTKQMSDEWLIKLNKQKQKLDNVGEKQAKEIKLLNSNEVRKDLF
HVDEGGKETIDYLDKDKANKIKPKG"

ORIGIN

```

1 cctctagata cttgggatct tgaaggtgca gcaattgtaa aactaatgaa tttagataaa
61 gaagaattta aacaatacaa atacttttct tatgatttaa tttaatctta gtgggtttta
121 aaacccaaaa aataatcagc aaaaaggtaa ttatgctgaa atgcaaatgg ataaatatta
181 caaagctaaa ggctataaaa gaattagttt aaataaagtc aaagggtctg atgataaaat
241 tcatcatgaa atggatggaa tttattataa tccagataaa aacccaaaat atatcatcgc
301 agaagctaag tttggaacaa gcaattaga tagaaaaact aagcaaatga gtgatgaatg
361 gttaataaag aataaactaa aacagcttaa agataatgta ggagaaaaac aggccaaaga
421 aataaaaaaa cttcttaata gcaatgaagt cagaaaagat ttatttcatg ttgatgaagg
481 aggtaaagaa actattgatt atttagataa agatgcaaat aaaataaaac ccaaagata

```

```

541 gaaaatggta agggatacta gtaaagatga agcgtatfff actaaagaga taatagaaag
601 tgaagaagat atcaaagaat ccgaaaaaat acttttagag cttccttttg gacaaagaga
661 aacttgtctt ttttgtatag aagatagaaa atttcatctt gctatggata aatactctcg
721 tggtagatgat atagacatag ttaaaaaaga tttagaagca tacatactag aaaaagaaaa
781 aaatcgttta gaaaaaggat tggatattag ctggtttgat ggaaatgctc ttgaactttg
841 tgtagagta ttactagata tggatagtgc ttgtgtatta gaattaatag aagaagatga
901 gagaaaaaga agagatattc tcaatagaga ttggttttta cattttatag gatctaaggg
961 taagaattta aatttagaac gcaaagtgtat tcgcaaagaa cacgagctta ttaaagaatt
1021 tgtagctact aaggatattg agtttttaca tcaatatatg aaaaaacata caagattaag
1081 agatcctcta gatacttggg atcttgaagg tgcagcaatt g

```

//

LOCUS PIMPEBOA_14 1024 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1024

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene complement(475..972)

/gene="trxB_2"

/locus_tag="PIMPEBOA_00057"

CDS complement(475..972)

/gene="trxB_2"

/locus_tag="PIMPEBOA_00057"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG86288.1"

/codon_start=1

/transl_table=11

/product="thioredoxin reductase"

/protein_id="Prokka:PIMPEBOA_00057"

/translation="MLPFIDEIMGVDWVIDLNKYDIASDESCKIYKALRSDVVEGKIK

DPRDIDSTYESRREFDRHRGGYKNGMREGYETDTPNDWSEEEAQLFNDTLILHAKLAA

LTPPQGYPNAPYYFTPENLEWYYKRHKLDKLLDPRIPIAIYRYNFPRELRAKILKFGE

NGIKE"

ORIGIN

```

1 ttcttatacc acttcttata actaaatatt tatatctttc ttttttagtt ttttagtgagt
61 tataataagc tttttctgct ttagtccaag gagctatgct tcctttaatg ggatctttta
121 aatatatgct ttgccaatct ttaaattcaa gcaaagtgga tttttgccct gtgtgaaatt
181 caggatctag atacctaggt tgatagtctt tgtagggaga gttttgtttg atattgtgtg
241 cttcaaaaag agctctagaa tattcttggg tgtatttggc tacttcacgc ccatcttttc
301 ttttatcaaa tataatttga tttgtatfff tatcaacttc taatataagt ccattagaag
361 tatagatctc gtaaatatct ttattatcac tcatttttat cttttcttaa tttatcccat
421 atataaacca tcttccatga ttatagtagt ggctaactctg cctatgtaat tactttattc
481 ttttaatacca ttttcttcgc caaatttgag tatcttagct ctaagttccc ttgggaaatt
541 atatctataa atagcagga ttcttggatc aaggagtta tcaagcttat gtcttttata
601 ataccattct agattttcag gggtaaaata ataaggtgca ttaggatagc cttgaggagg

```

```
661 agtgaggct gctagtttg catgaagtat taaagtatca ttaaaaagtt gtgcttcttc
721 ttcgctccaa tcattgggtg tatcggtttc atagccttcc ctcatgccat ttttataccc
781 acctctatgg cgatcaaatt cccttctgct ttcataagta gaatctatat ctcttggatc
841 ttttatcttg ccctcaacta catcacttct taaggcttgg tatatTTTTT cagattcatc
901 actagctata tcatatTTTt ttaaTcaat cacccaatct actcccataa tctcatctat
961 aaaaggaagc ataccaaatt catcaggTTT taaagtctta gctaaggTTT taatttGTTg
1021 ttct
```

//

LOCUS PIMPEBOA_15 909 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..909

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

29..160

/locus_tag="PIMPEBOA_00058"

CDS

29..160

/locus_tag="PIMPEBOA_00058"

/inference="ab initio prediction:Prodigal:002006"

/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:PIMPEBOA_00058"

/translation="MKKHTRLRDLPLDWDLEGAIVKLMNLDKEEFKSYKYFPYDLI"

ORIGIN

```
1 taaggatatt gagtttttac atcaatatat gaaaaaacat acaagattaa gagatcctct
61 agatacttgg gatcttgaag gtgcagcaat tgtaaaacta atgaatttag ataaagaaga
121 atttaaaagc tataaatatt ttccttatga ttttaattta tcttatttgg ataacagaaa
181 agagtagaga tagacttggc attgtagata aaaaacatag ggaaaaaata gaagaacttc
241 ttgaaaaaaa tagcaatgaa gtcagaaaag atttatttca tgttgatgaa ggaggtaaag
301 aactattga ttatttagat aaagatgcaa ataaaataaa acccaaagga taaaaaatgc
361 taagagatac taagagagat gaagcgtatt ttacgaaaca tataatagag tgtgaagaag
421 aaattaaaga agatgaaaaa atacttttag agcttccttt tggaaaaaga gaaacttgtc
481 ttttttgat aacagataga aaaaaatgta ttgctatgga taaatactct cgtggtgatg
541 atataaatct agttaaaaaa gattttagaag cacttatgct attaagacaa aaaaatcggt
601 tagaattagg tggatttgat actagcgatt atagaggaaa tgctattgaa ctttgtgta
661 gagtattatt agatatggat agtgcttgtg tattagaatt aatagaagaa gatgagagaa
721 agaaaaaaga tatttttaat agagattggT ttttacattt tatgggttct aagggtaaaa
781 acttaaattt agaacgcaa tgtaattgta aagaacacga gcttattaaa gaatttGTTg
841 ctactaagga tattgagttt ttacatcaat atatgaaaaa acatacaaga ttaagagatc
901 ctctagata
```

//

LOCUS PIMPEBOA_16 895 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..895
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene complement(320..889)
 /gene="trxB_3"
 /locus_tag="PIMPEBOA_00059"
 CDS complement(320..889)
 /gene="trxB_3"
 /locus_tag="PIMPEBOA_00059"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:CKG86288.1"
 /codon_start=1
 /transl_table=11
 /product="thioredoxin reductase"
 /protein_id="Prokka:PIMPEBOA_00059"
 /translation="MHKNPLREQQIKTLAKTLKPDEFGLPFIDEIMGVDWVIDLNKY
 DIASDQFGSMYKALRSDVVEGKIKDPRDIDSTYESRREFDRHRGGYKNGMLQGYGTD
 PNDWSEERAQLFNDTLILHAKLAALTPPQGYPNAPYYFTPENLEWYYKRHKLDKLLDP
 RIPAIYRYNFPRELRAKILKFGEENGIKE"

ORIGIN

```

1 tggatTTTTG ccctgtgtga aattcaggat ctagatacct aggttgataa ttaatataag
61 gagaggTtct taaaattcta tcggcttcaa acaaagcttt agaatattct tgggtgtatt
121 tgcctacttc acgcccattc tctcttttat caaatataat ttgatttgta tttttatcaa
181 cttctaatat aagtccatta gaagtataga tctcgtaaat atctttatta tcactcatct
241 tttatccttt cttaatttat cccatatata aaccatcttc catgattata gtagtggcta
301 atctgcctag gtaattactt tattctttta tgccattttc ttcgccaaat ttgagtatct
361 tagctctaag ttcccttggg aaattatata tataaatggc agggattctt ggatcaagga
421 gtttatcaag cttatgtcct ttataatacc attctagggt ttcaggggta aaataataag
481 gtgcattagg atagccttga ggaggagtga gggctgcgag tttggcatga agtattaaag
541 tatcattaa aagttgtgcc ctttcttcac tccaatcatt aggtgtatcg gttccatagc
601 cttgcagcat gccattttta tatccacctc tatggcgatc aaattccctt ctgctttcat
661 aagtagaatc tatatccctt ggatctttta tcttaccctc aaccacatca cttcttaagg
721 cttatacat acttccaaat tgatcactag ctatatcata tttattttaa tcaatcacc
781 aatctactcc cataatctca tctataaaag gaagcatacc aaattcatca ggttttaaag
841 tcttagctaa ggttttaatt tgttgttctc ttaaaggatt tttatgcact cctac

```

//

LOCUS PIMPEBOA_17 877 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..877
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene 2..571
/gene="trxB_4"
/locus_tag="PIMPEBOA_00060"

CDS 2..571
/gene="trxB_4"
/locus_tag="PIMPEBOA_00060"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86288.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:PIMPEBOA_00060"
/translation="MHKNPLREQQIKTLAKTLKPDEFGLPFIDEIMGVDWVIDLNVY
QNFDAWGKIYRALRSDVVEGKIKDPRDVDSTYESRREFDRYMDGYQNGMTINYHVDI
NNYRSEESAKLFMDSLVLLEAKLAALTPPQGYPNAPYYFTPERLEWDYKKNYQLDKLLDP
RIPAIYRYNFPRELRAKILKFGEENGIKE"

ORIGIN

```

1 agtgcataaa aatcctttaa gagaacaaca aattaaacc ttagctaaga ctttaaaacc
61 tgatgaattt ggtatgcttc cttttataga tgagattatg ggagtagatt ggggtgattga
121 tttaaatggt tatcaattta attttgatgc atggggaaaa atatatagag ccttaagaag
181 tgatgtagtt gagggcaaga taaaagatcc aagggatgta gattctactt atgaaagcag
241 aaggagttt gatcgttata tggatggata tcaaaatggt atgacaatta attaccatgt
301 agatataaat aattatagaa gcgagaatc agctaaatta tttatggatt ctttggattt
361 agaggccaaa ctgcagccc tctctctcc acaaggctat cctaatgcac cttattattt
421 taccctgaa agactagaat gggattataa aaattatcaa ttggataaac tccttgatcc
481 aagaatccct gctatttata gatataattt cccaaggga cttagagcta agatactaaa
541 atttggtgaa gaaaatggca ttaaagaata aagtaattac ataggcagat tagccactac
601 tataatcatg gaagatgggt tatatatggg ataaattaag aaaggataaa agatgagtga
661 aacttatgaa atttatacac ctaatggtgg tatattagat gtggaaaaag aaacgaataa
721 aattttactc tatgatgggg gagctaaggt aggcaaatac acccaagaat attctaaagc
781 tttgtttgaa gccgatagaa ttttaagaac ctctccttat attaattatc aacctaggta
841 tctagatcct gaatttcaca cagggcaaaa atccact

```

//

LOCUS PIMPEBOA_18 835 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..835
/organism="Campylobacter species"

```

        /mol_type="genomic DNA"
        /strain="strain"
gene     145..639
        /locus_tag="PIMPEBOA_00061"
CDS     145..639
        /locus_tag="PIMPEBOA_00061"
        /inference="ab initio prediction:Prodigal:002006"
        /inference="similar to AA sequence:RefSeq:CKG87598.1"
        /codon_start=1
        /transl_table=11
        /product="methyltransferase small"
        /protein_id="Prokka:PIMPEBOA_00061"
        /translation="MKKKIQELKSINNLSTKQKGNVGEAKMDLYLQGYKRISLNKV
KGLDDKIHHGIDGIYHNPDKNPKYIIAEAKFGKGLKKTGKYKQMSDEWITEESRNL
GVVDKKHRKKIEELLKENNNEVRKDLFHVDKKGNSIKELDKNAKTKNLIERIENGKG
YEER"

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ORIGIN

```

1 ggaggtaaaa gaagtaagaa aaataaaaat gatagagcaa agcaaataca agcattaataa
61 aataatcagc aaaacaacaa acaaaattca tttttacaag aagttgaaca acaaaaagaa
121 gaggctgaaa aagttttagc agatatgaaa aaaaagatac aagaattaaa aagtattaat
181 aacttaagca caaaacaaaa aggtaattat ggcgaagcta aaatggattt gtattattta
241 aaacaaggct ataaaagaat tagtttaaat aaagtcaaag ggcttgatga taaaattcat
301 catggaattg atggaattta tcataatcca gataaaaacc caaaatatat catcgcagaa
361 gctaagtttg gaaaagggtga ttttaaaaaa actggaaaat acaaacaaat gagtgatgaa
421 tggataacag aagagagtag aaatagactt ggtgtttag ataaaaaca taggaaaaaa
481 atagaagaac ttcttaagga aaataacaat gaagtcagaa aagattttatt tcatgttgat
541 aaaaaaggca atgtgagtat taaagaatta gataaaaatg caaaaaccaa aaacttaata
601 gaaaggatag aaaatggtaa gggatacгаа gagagatгаа gcgtatttta cgaaacatat
661 aatagagtgt gaaaaaaaaa tcaaagaaga tgaaaaaaga ctcttagaac ttccactagg
721 agatgcaaga agggaaaatt attttttttc tataacagat aaaaaaaaaat gtattgctat
781 ggataaatac tctcgtggcg atgatataaa tccagttaaa aaagatttag aagca

```

//

```

LOCUS      PIMPEBOA_19              736 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..736
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     52..183
            /locus_tag="PIMPEBOA_00062"
  CDS     52..183
            /locus_tag="PIMPEBOA_00062"
            /inference="ab initio prediction:Prodigal:002006"
            /codon_start=1
            /transl_table=11

```

```
/product="hypothetical protein"  
/protein_id="Prokka:PIMPEBOA_00062"  
/translation="MPYLLSLSDEEFEKIIFHVSGFSEIDTTLKEAMELRKEKKDE"
```

ORIGIN

```
1 ccaacaaaag attgttttga aagaattaat gccattataa aacctcatgt aatgccttat  
61 ttattaagct taagtgatga agaatttgaa aaaatcattt tccatgtaag cggtttttagc  
121 gaaattgata ctactttcct taaagaagca atggaactca gaaaagagaa aaaagatgaa  
181 tgaaaatatt ttattttata tacaagagat taaaacttgt ttaaaggata aaaatgagcc  
241 aaacaaacia taacacagaa atcaaagagc aagacacca agatgaaatc atttgggaag  
301 gaaaaaagca tataccttcg tttttgcttt attggataac atatattgtg cttttatggt  
361 ttatgcttta tttgcttcct agggcatttg acaatactaa gaattttaaa tggttttgtg  
421 tttttattat gtttcttgta acggtatatg cacttgcaca agagatctat aaagcggcaa  
481 atattaaaag aatttatatc acaaaagaaa aacttgtgat tgagtattat atcaaaaatg  
541 atttggtttt tccttttagga actttttttg tgtattatcg tcacgtgtca tttgtgctta  
601 ctccaggaga tatagtgata tacaccttcg gagataaagt caaagaatac cttgaacctg  
661 gtttattcag tgatggcgat gatccaacia aagattgttt tgaaagaatt aatgccatta  
721 taaaacctca tgtaat
```

//

LOCUS PIMPEBOA_20 708 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..708

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene 28..558

/locus_tag="PIMPEBOA_00063"

CDS 28..558

/locus_tag="PIMPEBOA_00063"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:PIMPEBOA_00063"

/translation="MLLCFALYLPRLFNPSKEIDYKWFIVFFTFLLVIYALAQKIYK

MANIKRIYVTKELVVEYYIKNDLVFPLGTFVYYRSSSLPSISNPGDIVIYTFGDKV

KEYLEPGLFSDGDDPTKDCFERINAIKPHVMPYLLSLSDEEFEKIISHVSGYNEIGT

TFLKEAMELRKEKKDE"

gene 551..703

/locus_tag="PIMPEBOA_00064"

CDS 551..703

/locus_tag="PIMPEBOA_00064"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:PIMPEBOA_00064"
/translation="MNENIYGSLEFYSKETQSTPSDKRDLGVFGDVAPYALGITEGFA
TKAFKG"

ORIGIN

```
1 tttttgcttt tttggataac atatattgtg cttttatggt ttgcgcttta tttgtttcct
61 agattattta atcctagcaa agaaatagat tataaatggt ttatagtttt ttttacattt
121 ctttttagtta tatatgcact tgcacaaaag atctataaaa tggcaaatat taaaagaatt
181 tatgtcacia aagaaaaact tgtggttgag tattatatca aaaatgattt ggtttttcct
241 ttaggaactt tttttgtata ttatcgtagt tcgtcacttc catccatatac aaatccagga
301 gatatagtga tatacacctt cggagataaa gtcaaagaat accttgaacc tggttttattc
361 agtgatggcg atgatccaac aaaagattgt tttgaaagaa ttaatgccat tataaagcct
421 catgtaatgc cttatttatt aagcttaagt gatgaagaat ttgaaaaaat catttcacat
481 gtaagcgggt ataacgaat tgggtaccact ttccttaaag aagcaatgga actcagaaaa
541 gagaaaaaag atgaatgaaa atatttatgg aagtttagag ttttattcta aagaaactca
601 aagcactcct agtgataaaa gggatttagg agtatttggg gatgttgctc cttatgcctt
661 aggcattaca gaaggttttg ctactaaagc ttttaagggg taagcaat
```

//

LOCUS PIMPEBOA_21 586 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers
source 1..586
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 aatcaatcac ccaatctact cccataatct catctataaa aggaagcata ccaaattcat
61 caggttttta agtcttagct aaggttttta tttgttgttc tcttaaagga tttttatgca
121 ctctactaa accacttcct actgcaatat ctgcataacc ataaatagca cccaataaat
181 taggtttatc tagtatacta cttcctccgc ttaattgtat ataaagtata gttgcttgga
241 taaatcttgc attaaaacca ttttgagaca tatcgttagc tagatattta taatcaccca
301 gtattcctgc tgccataacc cattcattat gaaataaact tgatctttaga ttatgtttat
361 tatcatctac tgttctatat aattcttcat acttaggatc tacatttcct ttttcatcta
421 cagctcctat agcttcataa ggtatatcta taacaacact tcttatacca cttcttataa
481 ctaaataattt atatctttct ttttttagttt ttagtgagtt ataataagct ttttctgctt
541 tagtccaagg agctatgctt cctttaatgg gatcttttaa atatat
```

//

LOCUS PIMPEBOA_22 554 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

```

FEATURES             Location/Qualifiers
    source            1..554
                     /organism="Campylobacter species"
                     /mol_type="genomic DNA"
                     /strain="strain"

ORIGIN
    1  tgccattttc  ttcgccaat  ttgagtatct  tagctctaag  ttcccttggg  aaattatatac
   61  tataaatagc  agggattcct  ggatcaagga  gtttatcaag  cttatgtcct  ttataatacc
  121  attctagttt  ttcaggggta  aaataataag  gtgcattagg  ataaccttgt  ggaggagtga
  181  gggctgcgag  tttggcagtt  aatatcatag  aatctatctt  taattgcgca  tcattccaat
  241  catttgggat  atcataacca  taggcattaa  tcatgccatt  agaataacca  tccatataat
  301  aatcaaactc  ctttctgctt  tcataagtag  aatctatatac  ctttggatct  tttatcttgc
  361  cctcaactac  atcacttctt  aaggctttat  atatatcccc  aaattcatct  tcagaaatct
  421  gatattcggt  ataataatc  acccaatcta  ctccataat  ctcatctata  aaaggaagca
  481  taccaaattc  atcaggtttt  aaagtcttag  ctaaggtttt  aatttgttgt  tctcttaag
  541  gatttttatg  cact

//
LOCUS       PIMPEBOA_23                518 bp    DNA        linear        12-APR-2021
DEFINITION  Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS    .
SOURCE      Campylobacter species
  ORGANISM  Campylobacter species
            Unclassified.
COMMENT     Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES             Location/Qualifiers
    source            1..518
                     /organism="Campylobacter species"
                     /mol_type="genomic DNA"
                     /strain="strain"

ORIGIN
    1  cccttgggaa  attatatcta  taaatagcag  ggattcttgg  atcaaggagt  ttatcaagct
   61  tatgtctttt  ataataccat  tctagatctt  caggggtaaa  ataataaggt  gcattaggat
  121  agccttgtgg  aggagtgagg  gctgagagtt  tggcagttaa  tatcatagaa  tctattctta
  181  attgtgcact  ttcttcactc  cgatcatttg  gaatatcata  accataagca  tttaccatgc
  241  cgttataata  tcctccccta  tggcgatcaa  attccccttct  gctttcataa  gtagaatcta
  301  tatctcttgg  atcttttatc  ttgccctcaa  ctacatcact  tcttaaggct  ttatacatac
  361  ttccaaattc  atcgcgagca  attctatacc  tgttataatc  aatcacccaa  tctactccca
  421  taatctcatc  tataaaagga  agcatacca  attcatcagg  ttttaaagtc  ttagctaagg
  481  ttttaatttg  ttgttctctt  aaaggatctt  tatgcact

//
LOCUS       PIMPEBOA_24                518 bp    DNA        linear        12-APR-2021
DEFINITION  Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS    .
SOURCE      Campylobacter species
  ORGANISM  Campylobacter species
            Unclassified.
COMMENT     Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES             Location/Qualifiers

```

```
source          1..518
                /organism="Campylobacter species"
                /mol_type="genomic DNA"
                /strain="strain"
```

ORIGIN

```
1 taagttcct tgggaaatta tatctataaa tagcagggat tcttggatca aggagtttat
61 caagcttatg tcttttataa taccattcta gtttttcagg ggtaaaataa taaggtgcat
121 taggatagcc ttgaggagga gtgagggctg cgagtttggc atgaagtatt aaagtatcat
181 taaaaagttg tgccctttct tcaactcaat cattgggtgt atcggtttca taaccttgcc
241 tcataccctt tctatatcca actctataac gatcaaattc ctttctgctt tcataagtag
301 aatctatatac tcttggatct tttatcttgc cctcaactac atcacttctt aaggctttat
361 atatatcccc aaattcatca ttagctaatac tatatttatt taaatcaatc acccaatcta
421 ctcccataat ctcatctata aaaggaagca taccaaattc atcagggtttt aaagtcttag
481 ctaagggtttt aatttggtgt tctcttaaag gattttta
```

//

```
LOCUS          PIMPEBOA_25                507 bp    DNA        linear        12-APR-2021
```

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

```
ACCESSION
```

```
VERSION
```

```
KEYWORDS      .
```

```
SOURCE        Campylobacter species
```

```
ORGANISM      Campylobacter species
              Unclassified.
```

```
COMMENT       Annotated using prokka 1.14.6 from
              https://github.com/tseemann/prokka.
```

```
FEATURES      Location/Qualifiers
```

```
source        1..507
              /organism="Campylobacter species"
              /mol_type="genomic DNA"
              /strain="strain"
```

```
gene          67..207
              /locus_tag="PIMPEBOA_00065"
```

```
CDS           67..207
              /locus_tag="PIMPEBOA_00065"
              /inference="ab initio prediction:Prodigal:002006"
              /inference="similar to AA sequence:RefSeq:CKG86746.1"
              /codon_start=1
              /transl_table=11
              /product="hypothetical protein"
              /protein_id="Prokka:PIMPEBOA_00065"
              /translation="MWYMKIFKDYQKFTPYGLDFRLYSKDFIAKLDFKDKAYNVLYNT
              GV"
```

ORIGIN

```
1 aacgcaaaaa attaagttgg tttatagggt ttgtgtgtaa tgctcctata ttaattgcga
61 gtgtgtatgt ggtatatgaa aatcttttaa gactatcaaa aattcactcc ttatggtttg
121 gattttagac tttatagtaa agattttatt gccaaacttg attttaaaga taaagcttat
181 aatgtgcttt ataatacagg agttttaaag ggagaagata ttacattttc tatttttttg
241 ggtttatttg gatttattct tgcttttact aatataaaat tttatcttac cactttaagc
301 gttcttattg tcttttctat ttttaattat tggatcaaga ttaataataa agaatttgta
361 aatcttattt ttttaatatc ttttattatc ttttttacag ctattgttat catattttat
421 cttacctatg gtattgaaac ttctaaggat cttgcattgc ttagctctct agaagctaaa
481 gaattgtcac cacaagaata taaagcgc
```

//

>>BfR-CA-15861_min_cov_30 putative plasmid location

LOCUS ECFEEEMN_1 17665 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE Campylobacter species
ORGANISM Campylobacter species
Unclassified.
COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
FEATURES Location/Qualifiers
source 1..17665
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"
gene complement(370..1278)
/locus_tag="ECFEEEMN_00001"
CDS complement(370..1278)
/locus_tag="ECFEEEMN_00001"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:AJK71146.1"
/codon_start=1
/transl_table=11
/product="type VI secretion protein"
/protein_id="Prokka:ECFEEEMN_00001"
/translation="MNDLASYSFFKLIKKLEKDYGRKNIFLRTNKS LKHPNKDIEKII
FSEHEQSVVLELFINFMGLHGVSSQLPSFMLDKLSRNEDGEQGWTLFFDFFNHYLLWIF
FDVVS LKNYPRSFNENFKDSISQILFNILGIKEHDI AKKYL PFAPLLLSLRPKTHIE
RVLQVNFKLKDKLSIIENLPHQILISDSQKNKLG IKNHTLGNF ILGDKFISYQNKIA
IYIKDISYQEAVK FMPNGTKHDDLKNSIMFLTNNEFCVDLYLKINYSSEMKFV LGDEN
TAKLGWAKILGNAQKKYTIVYMKLCE"
gene complement(1275..2996)
/locus_tag="ECFEEEMN_00002"
CDS complement(1275..2996)
/locus_tag="ECFEEEMN_00002"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:AJK71145.1"
/codon_start=1
/transl_table=11
/product="type VI secretion protein"
/protein_id="Prokka:ECFEEEMN_00002"
/translation="MKDNIFYYQKELEYLYEKREHFIKNYPKLT PFLAHDSKDPDIER
IIENLAILSSKIHQELDENIPHIAESLINIISP NYTNPLPSLCMQEFKFEQNSKENNL
IIPKGTLIKSKPIDKCVCFKTVYDVLYPISINEVFISSKNQDYTFNLT LQV NKAET
KICDLGLEKINLYLGNDTYMSSTLLLYMHSYLKELKIQSLDTEEFFLN TYNIEKIGL
NPDESSLSYNDLGFEAFSLLREYFFMPHKFNFLRINGLDILNNCQGKTINIEFKFSKP
FPANCIFRKELLSLGMTP IINIFAKSAEPLINNHKKDSYRIFVDRSQPKAYEIIQTLQ
VKAHNSEGGKRL LKNYKSFERFEFLKDNQKDFYSVNTKKNSKGEV FSEISFFSSCLID
ETISIDL LSCNGDLP SKLKIGDINTCNLKGVDTKNVEIPSETRRCSVDGNLLWKLVS
LSFSYQTILSKKAFFGVLESYSFLDNQSNWKIYKLLQEAIIDIQSKSTYLIDENITKK
GTVAIFSIKDSKFYTLGVEVYLLGLIISKFLASFASINSFCELKIKCLDSKEILHYPAS


```

gene      FGKKALI"
          complement(2993..3385)
CDS      /locus_tag="ECFEEEMN_00003"
          complement(2993..3385)
          /locus_tag="ECFEEEMN_00003"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:CKG87312.1"
          /codon_start=1
          /transl_table=11
          /product="type VI secretion system lysozyme-like protein"
          /protein_id="Prokka:ECFEEEMN_00003"
          /translation="MSLLDKLIHNLDEQNIHIPFYQND FEDVKNNIKVLLNAKINDCY
AVRNLGMPNMADINLNSNELCVSMAKEIRKLIDNYEKRICVVSITYDNSLSPWQLSFI
VKCFFQDDRFKEFNIEIIFKNNRYCEVK"
gene      complement(3388..4842)
          /locus_tag="ECFEEEMN_00004"
CDS      complement(3388..4842)
          /locus_tag="ECFEEEMN_00004"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:AJK71143.1"
          /codon_start=1
          /transl_table=11
          /product="type VI secretion protein"
          /protein_id="Prokka:ECFEEEMN_00004"
          /translation="MANTKVIDTPIIEQIMEKSKYSKTDESYSIAKRGVAEFISEIVK
SDNAEEKINKFALDEMHIAHIDHLLSKQMDEV LHNEEFQKLESTWRGLRFLVERTDFNE
NIKIDLFDITKEEALED FENNPDI TQSIVYKNIYSSEYGFQGGEPVGAIIIGDYQLGSA
SPDMTFLNKMASIAAMSHSPFLTSFGPKFFGLDDYSELANIQDLQGLLEGPQYTRWRT
FRENEDSKYTGLLVTRFLARSPYDPEENPIKSFNYKENVHASHNHLLWANSSYTFCTR
LTESFAKYRWCGNIIGPKSGGTVKDLPTYLYENFGTIQSKIPTEVLITDRREYELAEA
GFITLTLRRDSNNAAFFSANSPLKPKIFQNTPEGKEAETNYRLGTQLPYIFLISR LAH
YLVKVLQREEIGSWKERSDIENGLNEWIRQYISDQENPPSEVRSRRPFRAAQVKVDDIP
GEPGWYKIGLSVRPHFKYMGGNFELSLVGKLDKE"
gene      complement(4844..5329)
          /locus_tag="ECFEEEMN_00005"
CDS      complement(4844..5329)
          /locus_tag="ECFEEEMN_00005"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:AJK71142.1"
          /codon_start=1
          /transl_table=11
          /product="type VI secretion protein"
          /protein_id="Prokka:ECFEEEMN_00005"
          /translation="MSDGS HAPKERINITYKAKTNGQNEDELPLKLMVMANLKGKNE
TPLEEREILQINKINFDQVMRKL DITTSFSVKNTLGTGAEE LDVKLN IASMKDFSPDS
LAKQIPELNKLLQLREALMALKGPMGNIPDFRKAVLEALKNEKTKEKLLLEIKQEEQG
N"
gene      complement(5399..6646)
          /locus_tag="ECFEEEMN_00006"
CDS      complement(5399..6646)
          /locus_tag="ECFEEEMN_00006"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:AJK71141.1"
          /codon_start=1

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```

/transl_table=11
/product="nucleobase:cation symporter"
/protein_id="Prokka:ECFEEEMN_00006"
/translation="MSFCNQLKNNLDELQEFHLLLEDEMSKYKTLNHNENISWDKVYQYS
QFILLHSLDFKVCNYFLLSFCNLNNEECFEKLLLLFQHLKKLMDENNTYISAQKRKI
QIFIQNFIEYKTKVLSSEIIDQFIALFSEFENLLSCNFAKIEIAQVAPQLPKSPV
AQVSVNIRSDNINSLNEREYKNFYQKLAFELLEEDENNLNIYALFTQAMWGKIKCLPE
CNNEKITKIRKPDADIIRILLSDKENDIEHIKCFMHELILNPFWIEGVQLFCDFLEKK
KKNKQLDILIMLTSDFISKFDAIELLRFQNGDFICKEEVYKYFVKPKENKKSFFSSKK
TDKEHTLQDFEQMLMNIDKENFNNSIMNINSLDMVKIFESKGMKKNKILNIYLVE
LMEKTLKDYLAEEYENAKNKIK"
gene 6769..7215
/locus_tag="ECFEEEMN_00007"
CDS 6769..7215
/locus_tag="ECFEEEMN_00007"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:AJK71140.1"
/codon_start=1
/transl_table=11
/product="type VI secretion protein"
/protein_id="Prokka:ECFEEEMN_00007"
/translation="MFRKKSLLFLLPLFFCACSSVSVKINNIENSNLNRYDDVPVT
AIVYQLKDIKKFEEASDIDLATREDGVLGKDKLDSIKTQIAPKDNIIVAVKVEGEVPY
VGVLVLFANNTKKVTKIWAKTEDANGFGKNKYLKFEISKEGIKRIK"
gene 7225..8622
/locus_tag="ECFEEEMN_00008"
CDS 7225..8622
/locus_tag="ECFEEEMN_00008"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:AJK71139.1"
/codon_start=1
/transl_table=11
/product="type VI secretion protein"
/protein_id="Prokka:ECFEEEMN_00008"
/translation="MANKLKVAFDGLNIGQTHFEQQRFFNRNIDLKTINIYSNLYG
IIDLEFSQEMLLQGKIALSKISGIAQDGSIFNAPEQDLLPEPIEINYESLIDSVVVK
IPIGVTDIADLSLRNTPNSKYICLRNSIALRNYDDSKSNAMDKIEDEYELNLTFTQ
EKKDLLASLRLLKLGILGNSTPDELELPIAKIKNIDINKKIELESDFIPTCLNISKIS
TIRSFLEEIIIFSINQHKKVLSNVFKGIDQTKNTLDFSTFLSLNLLKKWYLIFSHLSKK
DKIHPEFLYEKFLFQGELAAFSNEESFLDFIPYKHDNLYNTFLNMMNLRLLFSKIT
SPKYFIAKTSINGNGFYDFIFDNSGILEDAEIYFAIRADVTTTEYLLNMFKIQSKIHTQ
SKIKNIVATQLEGLNVDQVPNIIPSSIPYLNQYVYKIDKRDHLFKDFKNESIISMVLT
NNIKNPDIIIMWAVFQ"
gene 8619..9392
/locus_tag="ECFEEEMN_00009"
CDS 8619..9392
/locus_tag="ECFEEEMN_00009"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:AJK71138.1"
/codon_start=1
/transl_table=11
/product="glutamyl-tRNA amidotransferase"
/protein_id="Prokka:ECFEEEMN_00009"
/translation="MKEINEEKALSLLLDNSNFDGLKNNKIIDYSLELLLLLSYRLSKI

```

SSMDTSNINQLRETLINKILDITAKLSMCKEYDEKEIIFKFKYCLCVFIDESLMKNELF
 INFWAHNTLTVRLFDETLGGNNFYDIASSWINNPFKFKDFLEFIYACLILGYKGYNE
 AKDRDEKIIHFCNNIATSLRPVYKTEEELAFNKAYKIGLEENIWQKFIRLYFKKLIII
 VPLIVLGVLSFAIFNLETNNLKVDNNISVLIKNLTHIE"

gene 9615..10175
 /locus_tag="ECFEEEMN_00010"

CDS 9615..10175
 /locus_tag="ECFEEEMN_00010"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:ECFEEEMN_00010"
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gene 11799..11948

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DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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LOCUS ECFEEEMN_4 4049 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers
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CDS complement(403..3918)
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CDS

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ORIGIN

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LOCUS      ECFEEMN_5                3161 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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gene      1821..2171
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gene      2171..2803
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ORIGIN

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LOCUS ECFEEEMN_6 2527 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

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CDS

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CDS

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ORIGIN

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1 ctccttgat ttcatcatta agcataatag gaacattgtc tgatTTTTATT cTTTTAGcTT
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121 taggatgcaa acaagaagta tcaggactta cattaatatt ttttattcta ggaatagtga
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241 tctttggcat aaagaagctt ttcttctaaa gagcaatcaa aatttaaagg aaagggtttt
301 aggggtgttt tacttagaaa tttttcccaa agtatagaat tttcttctgc tgaaaactcc
361 caaaaatcat ctttattggt ataaacatag tctttataat ctataaaatt taaaaatta
421 atatttatat ctttttgttt agaaagtatg ctttgtgtat tttcttcttc tgtgtttttt
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541 tcaagttcat ttaaaaactc tttagaataa taatttaaaa aataagtatt tgcgtattct
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2401 catgcacttc aaatttagcc ccacgattga ctagatactt aatgatttga gagtttggat
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LOCUS ECFEEEMN_7 2407 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.

ACCESSION
VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
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/strain="strain"
gene 40..510
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CDS 40..510
/locus_tag="ECFEEEMN_00054"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:ECFEEEMN_00054"
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ORIGIN

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2281 gttgtagggg tgcttagatg agatgaagca ttggttaaag tatttaaaga aaataaatct
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LOCUS ECFFEEEMN_8 2139 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

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/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(23..667)

/locus_tag="ECFFEEEMN_00055"

CDS

complement(23..667)

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/inference="ab initio prediction:Prodigal:002006"

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

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

/codon_start=1

/transl_table=11

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/protein_id="Prokka:ECFFEEEMN_00055"

/translation="MVRDTSKDEAYFTKHIIECEEKIKKSEKILLELPGFKRETCLFC

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ATKDIEFLHQYMKKHTRLRDLDTWDLGAAIVKLMNLDKEEFKQYKYPYDLI"

gene

complement(826..1515)

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CDS

complement(826..1515)

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/transl_table=11

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gene

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CDS

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/transl_table=11
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ORIGIN

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481 tatcatcgcc acgagagtat ttatccatag caatacattt ttttctatct gttatacaaa
541 aaagacaagt ttctcttttt ccaaaaggaa gctctaaaag ttttttttcg gattttttta
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721 aatttatgat tataatattt tataatattt tcaatcttca cataactaaa cttactaaa
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1981 atgatttttc ttacttcttt tacctcctat cccttcccat cttatcctat cataactcaat
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2041 cttagcaaga ggactagctt gtatttttagc taaagcaaat tgaatcttat tcttttttagg
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LOCUS ECFFEEEMN_9 2022 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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68..229

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gene

222..1889

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CDS

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/inference="similar to AA sequence:RefSeq:A0H52014.1"

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SNIQTQTIEKRQDKFKDYDIFYDVYTSKDNKDKSLNKLGCDDGFVNNNGIAEVGAEF

FDKCFKKGIYVLIPLRLISLDKNEKLHFDVPVPLEDKGFVVTDFRKGKKEEKIDLTFFQR

SIKIKNPNLALQSPEDFLKALNGNENRDFTEKDQIQAMGIKACGKVKVEITKILL

KDDEKLDIIRGEEKLKEIGRLRDKQNKSPKELSLGRLEFLQRNQDKVEKHKDIID

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ORIGIN

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LOCUS      ECFEEMN_10          1875 bp    DNA      linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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gene 620..1006
/locus_tag="ECFEEEMN_00061"
CDS 620..1006
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/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
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CDS 1021..1578
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TFYVGERGSVELEYSFDSEKEAIDKMLQMNYEQKKYDGKDIKEYLTKEVALRIIKEEN
LEVIWYDEALKPMRAGIKHDKQRDKYISFITNAKAEIIIEYRSIEFDGDRYSETFKEML
NDENIALYALINRARMIKQNRISFT"

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ORIGIN

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1 ataggagtga gtataaaagg ctatcctata tttgctatac ctaaaaagaa taagattcaa
61 tttgcttttag ctaaaataca agctagtcct cttgctaaga ttgagtatga taggataaga
121 tgggaagaga taggaggtaa attaaaagct gcacaaagaa ggagaagaga aaaaagtaaa
181 gagaaagcaa aaatgctttt atatttgtaa aatgaaaata aaaaagataa agtaagtgat
241 caagaagttc atctttataa acataatgga atatggccta aaattactcc aaaacctaga
301 agttctgatt atattcttga agatggagag attattttaa acatcaaaca aagagccatg
361 gaaataaaaa atacttttaa tggagggtat aatagttatt ctataaagac aaaagataaa
421 cttaccagat atgatttaga tggtaaacca cattatgaga agacatcaaa gaaaataatt
481 gatacacctc ataaaataga atatactaaa catataaatc ctcaagatac aacaaagtat
541 agaatgtcac agggagcagt agagccaata tctcataaag atttagatat tgtagaaaat
601 tatttaaaaa ggcaaaataa tgaaatttga gaattttaaag catggaagtt tattcaaaag
661 agaattttat cttaaagatg taaaaataga tttaagaaat gacttttatg tttattctat
721 cacaatgaat aaaaacactt tggaaatatt ttttaaatca gagaaaaaag atatacaaga
781 tttgcaaatt attttttatg attataagtt gctacatcca aaatcatatt gtaaaaaattt
841 taatcaatta gaagctaatt ttatagattt gataagaaat aattgggatg atataacagg
901 ctatattgaa aaagaagaag agatgttgat aagcatatat tttgataatg atttagaata
961 tattacttta acttgtaagt attttaatat agattttata gactgaataa aggatagaaa
1021 atgacaagag aacaagcaga attaatcata aaagaagaaa agttgattga tacagattgg
1081 tatccttctt ataaacattc aggagaattt catcttacta tgtggtttga ttctgataat
1141 aataaatatg aaactttcta tgttggagaa aggggcagtg ttgaacttga gtattctttt

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1201 gatagtgaaa aagaagccat tgataaaatg ttgcagatga attatgaaca aaaaaaatac
1261 gatggaaaag acattaaaga atatctaaca aaagaagtag cactaagaat catcaaagaa
1321 gaaaatctag aagtgatttg gtatgatgaa gcacttaaac caatgcgagc aggtatcaaa
1381 cacgataaac aaagagataa atatatttct tttatcacta atgctaaagc agagattata
1441 gaatacagaa gtattgagtt tgatggggat agatacagtg aaacttttaa ggaaatgctt
1501 aacgatgaaa atatagccct ttatgctctt atcaatcgtg ccagaatgat taagcaaaat
1561 aggattagct ttacgtaaact actttcctta taatttaatt taatccttagt gggtttaaaa
1621 acccacaagg cttttcatgg ctagaatttg ctatacccaa aaagaataag attaaatttg
1681 ctttagctaa aatacaagct agtcctcttg ctaagattga gtatgatagg ataagatggg
1741 aagggatagg aggtaaaaga agtaagaaaa ataaaaatga tagagcaaag caaatacaag
1801 cattaaaaaa taatcagcaa aacaacaac aaaattcatt tttacaagaa gttgaacaac
1861 aaaaagaaga ggctg

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//

LOCUS ECFEEMN_11 1821 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1821

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

67..321

/locus_tag="ECFEEMN_00063"

CDS

67..321

/locus_tag="ECFEEMN_00063"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG86821.1"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:ECFEEMN_00063"

/translation="MLDPLEIEKLSPQEYRVRNYFKFLTATMFFLVITFIILPCLLQ
AYLFKCYSTGEKRKLSWFIGFVCNAPILIASVYVYENL"

gene

440..931

/locus_tag="ECFEEMN_00064"

CDS

440..931

/locus_tag="ECFEEMN_00064"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG86719.1"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:ECFEEMN_00064"

/translation="MGEDITLSIFWGLIGFILACSVIEFYLIASVLIVFSILNYWIK
INIKEFVKSYFLISFIIFFMAIVIVFYLTLDLETSRGLVLLGPPEIEKLSPQYKARN
YFDLGGITFIFLVITFFILPCLLQAYLFKCYSTGEKRKLSWFIGFVCNPILMAGVY
VMY"

ORIGIN

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1 ttttttacag ctattattat catatTTTTat cttagctatg atcttgaatt ttataaatcg
61 cttgtattgc ttgatcctct agaaattgaa aaattatcac cgcaagaata tagagtgcgt
121 aattatttta aatttttaac ctttgcaact atgttttttt tagtaatcac atttattata
181 cttccttggt tattgcaagc ttatttattt aaatgttata gcacaggaga aaaacgcaaa
241 aaattaagtt ggtttatagg gtttgtgtgt aatgctccta tattaattgc gagtgtgtat
301 gtggtatatg aaaatcttta aagactatca aaaattcact ctttatgggt tggattttaa
361 actttatagt aaagatttta tcactaagct tgatttttaa gataaagctt ataatgtgct
421 ttataataca ggagttttaa tgggagaaga tattacactt tctatTTTTt ggggtttgat
481 aggatttatt cttgcttgta gtgttataga attttatctt atagctctaa gcgttcttat
541 tgtcttttct attttaaatt attggatcaa gattaatata aaagaatttg taaaatctta
601 ttttttaata tcttttatta tcttttttat ggctattggt atcgtatTTT atcttactta
661 tgatcttgaa acttctaggg gacttgtatt acttggtcct ccagaaattg aaaaattatc
721 accacaagaa tataaagcac gtaattattt tgatttttta ggcggtataa cttttatttt
781 tttagtaatc acatttttta tacttccttg tttattacaa gcttatttat ttaaagtcta
841 tagcacagga gaaaaacgca aaaaattaag ttggtttata gggtttgtgt gtaatcctat
901 attaatggcg ggtgtgtatg tgatgtatta aaatctttaa agacttttaa aaaatttaat
961 atatttgata taatatttat ttatcttaa tatttagaga aaaaatgaat agagaattat
1021 ttataacaag acttgcattt ataaacaatg atgaaataaa taaaataaat aaaaattcat
1081 ctattgcata tttaaaagcc ttatatcaat gtgaaaattc catagctgta aattatgatg
1141 aagaagagct tttcacccaa accactgcta taacaactct aggatatggc aatgatttca
1201 caaaaatctt catcctagat aaagaaaacc tcaatgacac ctatcttgat gctagaaaaa
1261 agctttataa atctatcaat actttaaaag aagaaaaaaa tgaaaaaata aaaaatatcc
1321 aagcttatgt aaataaagaa aattccttgc aagacaactt aaataatcaa agctttaata
1381 ctgaggaaaa tgatgttaat ttaattttaa acgaagtatt taacatagag caattttatg
1441 ataaaaatac caataccata gtattaaaga caaataatat aaaaatcata ttcttagata
1501 aagtaaattt acaagatttg caagataatt ctaacaatac ttctttcatc tctatgtcaa
1561 atttaatcca tatttatgag aatcattgtg atatTTTTac gaaagataga agtattttag
1621 atataaaatt tatagaagaa aaatatcaaa tagattttaa aagtttagat acaaaaatct
1681 tcctaaactc caccctcctt acaggctcca ccgaactccc taataatcct ttttactttg
1741 gagaattaga tcaagataat actataaaac aagatatacc cagttattat ttttctccta
1801 aagatgaaag cagtggttta g

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//

```

LOCUS      ECFEEMN_12                1275 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1275
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     112..609
            /locus_tag="ECFEEMN_00065"
  CDS      112..609
            /locus_tag="ECFEEMN_00065"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG86821.1"

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/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:ECFEEEMN_00065"
/translation="MGDSITLSIFVGSLLSIAVITKFYLIASVLIVFSILNYWIKIN
IKEFVKSYFLVYFTIFFTAIVIIIFYLTYGIETSKDLALLSSLEAKELSPQEYRVRNYF
KFLTFATMFFLVITFIILPCLLQAYLFKCYSAGEKRKLSWFIGVFCNIIILIASAYL
MYIFI"
gene      728..1231
          /locus_tag="ECFEEEMN_00066"
CDS      728..1231
          /locus_tag="ECFEEEMN_00066"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:CKG86821.1"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="Prokka:ECFEEEMN_00066"
          /translation="MGEDITFSIFWGLFGFILAFITNIKFYLTLSVLIVFSILNYWIK
INIKEFVKSYFSIYFIIFFTAIIVIIIFYLTYGIETSKDLALLSSLEAKELSPQEKARN
YFGFLTCMTMFFLVITFIILPCLLQAYLFKRYSTEERKLSWFIGFLCNIIILIASA
YLMYIFI"

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ORIGIN

```

1 caaaaattca ctccttatgg tttggatttt agactttata gtaaagattt tatcactaaa
61 cttgatttta agataaagc ttataatgtg ctttataata caggagttta aatgggagat
121 agtattacgc tttctatfff tgtaggttca ttgctatcca ttgctgttat cacaaaattt
181 tatcttatag ctttatctgt tcttattgtc ttttctatff taaattattg gattaagatt
241 aatataaaaag aatttgtaaa atcttatttt ttagtatatt ttactatctt ttttacagct
301 attgttatca tattttatct tacctatggg attgaaactt ctaaggatct tgcattgctt
361 agctctctag aagctaaaga attatcaccg caagaatata gagtgcgtaa ttattttaaa
421 tttttaacct ttgcaactat gtttttttta gtaatcacat ttattatact cccttgttta
481 ttgcaagctt atttatftaa atgttatagc gcaggagaaa aacgcaaaaa attaagttgg
541 tttatagggt ttgtgtgcaa tattattata ttaattgcaa gtgcatatff gatgtatata
601 tttattftaa gactatcaaa aattcactcc ttatggtttg gattttagac tttgtagtaa
661 agattttatc actaagcttg atftftaaaga taaagcttat aatgtgctff atgatacagg
721 agftftaaatg ggagaagata ttacattttc tattftfttg ggtttatttg gatttattct
781 tgctftftact aatataaaaat tttatcttac cactfttaagt gttcttattg tctftftctat
841 tftftaattat tggattfaaa ttaatataaa agaatttgta aaatcttatt tftftaatata
901 tftftattatc tftftftacag ctattgttat catattfttat cttacctatg gtattgaaac
961 tftftaaggat cttgcattgc ttagctctct agaagctaaa gaattatcac cacagaata
1021 taaagcacgt aattattfttg gattftftgac ttgtatgact atgtftftft tagtaatcac
1081 atftftattata cttccttgftt tattgcaagc ttattftatt aaacgtata gcacagaaga
1141 aaaacgcaaa aaattaagtt ggtfttatagg gttftftatgc aatattatta tattaattgc
1201 aagtgcatat ttgatgtata tftftattfta aagactatca aaaattcact ctttatggft
1261 tggattfttag actft

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//

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LOCUS      ECFEEEMN_13          1215 bp    DNA      linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS
SOURCE     .
ORGANISM   Campylobacter species
           Unclassified.

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COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1215
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"

gene complement(176..940)
 /gene="trxB_3"
 /locus_tag="ECFEEEMN_00067"

CDS complement(176..940)
 /gene="trxB_3"
 /locus_tag="ECFEEEMN_00067"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:CKG86288.1"
 /codon_start=1
 /transl_table=11
 /product="thioredoxin reductase"
 /protein_id="Prokka:ECFEEEMN_00067"
 /translation="MGEWELAAGILGDKLGFAGGGGLWKTGFTTRAYQALFLAAQLG
 HQPSLEHQLTTYSSVALAGGGHKNPLREKMLKDFAKNPPYDEFGLPFLDELIGVDW
 VIDLNEYQFAYDGGSVKALDEKVRQGLKDPDIDSTPESRKEFDEEANAYTFGNR
 MNFSSDIRDSRSKESARLFDDLILHAKLAALTPPQGYPNAPYYFSPEQLEDFYKRQV
 LDAKLDPRIPAIYRYNFPRELRAKILKFGEEGIKD"

ORIGIN

```

1 cattgctttt tgccgtaaat aatattttat ttgtatcttt ttctacattt aatattgagc
61 catctgggtg ataaatctca taagtatcac tcatctttta tcctttcttt atttaaccta
121 tatgcaaacc atttttcata atgatagtag tggctagcct gcctatgcaa ttactttaat
181 ctttaatgcc attttcttcg ccaaatttga gtatcttagc tctaagttcc cttgggaaat
241 tatactata aatagcaggg attcttgat caagtttagc gtctaaaact tgtcttttgt
301 aaaaatctt taattgttca ggactaaaat aataaggtgc attaggataa cttgaggag
361 gagtgagggc tgcgagtttg gcatgaagta tcaaaaggtc atcaaataat ctagccgatt
421 ctttacttct actatcgca atacagagg aaaaattcat tctattacca aaagtataag
481 cattagcttc tcatcgaat tctttcctgc tctctggagt agagtctata tctcttggat
541 cttttaattt acctgtctt acttttctcat ctaaagcctt aacactaccg ccatcaccat
601 cataagcaaa ttgatattca ttcaaatcaa tcaccaatc cactcctata agttcatcta
661 agaaaggtag cattccaaat tcatcataag gaggattttt agcaaagtct tttagcattt
721 tctctcttaa aggattttta tgtcctccac ctgctaaggc tacagaagat gagtaagtag
781 tgagttggtg ttctaaagaa ggttgatgtc ctagttgtgc tgctaaaaat aatgcttgat
841 aagccctagt agtaaactct gttttccata atcctcctcc accttttgca aagcctaatt
901 tatctcctaa aattcctgct gctaattccc attcaccat aaataaatat ccatcactta
961 aatgagctaa gcctctattg gcttctactt ctttgtaaag ttctttatag tctttattga
1021 ttaaatttcc tttttcatct acattacaat aagcatcata aggtatatct ataacagtgc
1081 ttcttatacc acttcttata attaaatatt tatactttc tcttttagtt tttaaagatt
1141 tataataagc tttttctgct ttagtccaag gagctatagc tcctttgata ggatctttta
1201 aatatatgct ttgcc

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//

LOCUS ECFEEEMN_14 1183 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

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Unclassified.
COMMENT      Annotated using prokka 1.14.6 from
              https://github.com/tseemann/prokka.
FEATURES     Location/Qualifiers
   source     1..1183
              /organism="Campylobacter species"
              /mol_type="genomic DNA"
              /strain="strain"
   gene       complement(159..572)
              /locus_tag="ECFEEEMN_00068"
   CDS        complement(159..572)
              /locus_tag="ECFEEEMN_00068"
              /inference="ab initio prediction:Prodigal:002006"
              /inference="similar to AA sequence:RefSeq:AOH52023.1"
              /codon_start=1
              /transl_table=11
              /product="immunity protein 70"
              /protein_id="Prokka:ECFEEEMN_00068"
              /translation="MVGFSIDNLWYEIGSGDFLHAFFSNVAYHLEKGNWGSRFPILMN
EVYQGKLNFSKASLALNELENIQKEFKNFTPQIWDIENLSLTPPWGDNISSDITDL
SNYFVTSDGNDFIELFKVLQLADNEKANLTIKSF"
   gene       complement(587..1183)
              /locus_tag="ECFEEEMN_00069"
   CDS        complement(587..1183)
              /locus_tag="ECFEEEMN_00069"
              /inference="ab initio prediction:Prodigal:002006"
              /codon_start=1
              /transl_table=11
              /product="hypothetical protein"
              /protein_id="Prokka:ECFEEEMN_00069"
              /translation="MSIKGYPIFAIPKKNKIQFALAKIQASPLAKIEYDRIRWEGIES
KEEAKMLLYLENENKNSKIKQISISNIPKKPHWRESEEDISKLYDYEKQKSFLNGN
EVPYGTKHSVRPDLYKNGSSIEIKNYNLDKTSSANLINIITKQYQQLQHLPPKTEQ
IFIIDSRGQNISKEIQEKIKQIRIKLNCDILIQFKTK"

ORIGIN
   1 tcttttttta gccatgaaaa gccttgtggg ttttaagtat gttttctagt tgtttatcct
  61 tggcataaag aagcttttct tctaaagagc aatcaaaaatt taaaggaaaag ggtttttaggg
 121 tgtttttgct tagaaaat tcccaaagta taattat tttt aaaaactttt aatggtaagg
 181 ttagcttttt cattgtcagc tagttgtaag acctttttaa agagttctat aaaatcatta
 241 ccatcgcttg ttacaaaata atttgatagg tctgtaatat cactactgat attatcacc
 301 caagtgggcg taagagataa gttttcaata tcccaaatta tttgttttgg ggtaaaat t
 361 ttaaattcct tttgtatatt ctctagttca tttaacgcta aagaagcttt tgaaaaat t
 421 aatttacctt gatatacttc attcattaat ataggggaatc tacttcccca gtttcctttt
 481 tcaagatgat aagccacatt gctaaaaaat gcatgtaaaa aatcaccact gcctatttca
 541 taccaaagat tatctatact aaaaccacc attattcttc ctaaatttac ttagttttta
 601 attgaataag tatatcacia ttttaattta tgcgaat ttt ttgttttatt ttttcttgta
 661 tttctttaga tatat tttgt cctctagagt ctataatgaa gatttgttca gtttttggtg
 721 gcaaatggtg caatctttgt tgatattgtt tggtaataat attaattaaa ttgtttgcac
 781 tggatgtttt atcaagatta tagtttttaa tttcaatgct agaaccattt ttgtataagt
 841 ctggacgaac agaatgtttt gttccgtatg gaacttcatt gccattaaga aaagatttct
 901 gtttttcata atcatagtat aactttgata tatcttcttc agattctcgc caatgaggtt
 961 ttttaggtat gtttgatata gatatttgtt ttat tttgct atcg tttttta ttttcattt
1021 ccaaatataa aagcattttt gcttcttctt tgctttctat cccttcccat cttatcctat
1081 cactactcaat cttagcaaga ggactagctt gtat ttttagc taaagcaaat tgaatcctat

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1141 tcttttttagg tatagcaaat ataggatagc cttttatact cac
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LOCUS      ECFEEMN_15                1123 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1123
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     234..866
            /locus_tag="ECFEEMN_00070"
  CDS      234..866
            /locus_tag="ECFEEMN_00070"
            /inference="ab initio prediction:Prodigal:002006"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"
            /protein_id="Prokka:ECFEEMN_00070"
            /translation="MSEINNTEIKEQDTQDEIIEWEGKKEIPSFLLYWITYIVLLCFM
            LYLLPRTFDNTKNFKWVFFIMFLLGIYIFAREIYKMANIKRIYVTKELVVEYYIKN
            DLVFPLGTFVYYRSLPFLGTPGDMVIYTFGDKVKEYLEPGLFSAGDDPTKGCCEKIN
            AIIKPHVMPYLLSLSDEEFEKIISHVSGFSEIDTTFLKEAMELRKEKKDE"
  gene     859..1011
            /locus_tag="ECFEEMN_00071"
  CDS      859..1011
            /locus_tag="ECFEEMN_00071"
            /inference="ab initio prediction:Prodigal:002006"
            /codon_start=1
            /transl_table=11
            /product="hypothetical protein"
            /protein_id="Prokka:ECFEEMN_00071"
            /translation="MNENIYGSLEFYSKETQSTPSDKRDLGVFGDVAPYALGITESFT
            TKAFKG"
ORIGIN
  1  tgcaaacaaa gatagaagag caatattctt tagaatcaga aaattctact tttgactttc
  61  aaacagattg tgaagtaaaa gcaggcaatc aaatcctcca tcaagtaggt gataactcaa
  121  ttgttaccaa gaaagattgt gttatcatta aagcaggtgg agtagaagtg attatagact
  181  ctaatggact tgtgggttaa ggtggagaag taaaagcaga gtaaaggata aaaatgagtg
  241  aaataaacia taacacagaa atcaaagaac aagacactca agatgaaatc atttgggaag
  301  gaaaaaagga aataccttgc tttttgcttt attggataac atatattgtg cttttatggt
  361  ttatgcttta tttgcttcct aggacatttg acaatactaa gaattttaaa tggttttgtg
  421  tttttattat gtttctttta ggcatatata tatttgcacg agagatctat aaaatggcaa
  481  atattaaag aatttatgtc acaaaagaaa aacttgtggt tgagtattat attaaaaatg
  541  atttggtttt tccttttagga actttttttg tatattatcg tagtttgcca tttgggctta
  601  ctccaggaga tatggtgata tacacctttg gagataaggt caaagaatac cttgaacctg
  661  gtttattcag tgctggcgat gatccaacaa aaggttgttg tgaaaaaatt aatgccatta

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721 taaaacctca tgtaatgcct tatttattaa gcttaagtga tgaagaattt gaaaaaatca
781 tttcacatgt aagcggtttt agcgaattg atactacttt ccttaaagaa gcaatggaac
841 tcagaaaaga gaaaaaagat gaatgaaaat atttatggaa gtttagagtt ttattctaaa
901 gaaactcaaa gcactcctag tgataaaaga gatttaggag tatttggaga tgttgctcct
961 tatgctttag gcattacaga aagttttact actaaggctt ttaaggggta agcaatgaat
1021 aattctactt tactttggaa aagtaagaga aaaattattc cttttagttt gtttttttgc
1081 tctctttatt ttatattagc tttttttctg tgttggtttt gtt
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//

LOCUS ECFEEEMN_16 1091 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1091

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(551..931)

/locus_tag="ECFEEEMN_00072"

CDS

complement(551..931)

/locus_tag="ECFEEEMN_00072"

/inference="ab initio prediction:Prodigal:002006"

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

/codon_start=1

/transl_table=11

/product="methyltransferase small"

/protein_id="Prokka:ECFEEEMN_00072"

/translation="MQMDKYYKAKGYKRISLNKVKGLDDKIHHEMGIYYNPDKNPKY
IIAEAKFGTSKLDKTKQMSDEWLIKNLKQLKDNVGEKQAKEIKLLNSNEVRKDLF
HVDEGGKETIDYLDKANKIKPKG"

ORIGIN

```
1 ctagaggatc tcttaatcct gtatgttttt tcatatattg atgtaaaaac tcaatatict
61 tagtagctac aaattcctta ataagctcgt gttcctttgcg aatacatttg cgttctaaat
121 ttaaattcct acccttagat cctataaaat gtaaaaacca atctctattg agaatatctc
181 ttctttttct ctcatcttct tctattaatt ctaatacaca agcactatcc atatctagta
241 atactctaac acaaagttca agagcatttc catcaaacca gctaatatcc aatccttttt
301 ctaaacgatt tttttctttt tctagtatgt atgcttctaa atctttttta actatgtcta
361 tatcatcacc acgagagtat ttatccatag caagatgaaa ttttctatct tctatacaaa
421 aaagacaagt ttctctttgt ccaaaaggaa gctctaaaag ttttttttcg gattccttga
481 tatcttcttc actttctatt atctctttag taaaatacgc ttcattctta ctagtatccc
541 ttaccatttt ctatcctttg ggttttatth tatttgcattc tttatctaaa taatcaatag
601 tttctttacc tccttcatca acatgaaata aatcttttct gacttcattg ctattaagaa
661 gtttttttat ttctttggcc tgtttttctc ctacattatc ttttaagctgt tttagtttat
721 tctttattaa ccattcatca ctcatcttgc tagtttttct atctaatttg cttgtttccaa
781 acttagcttc tgcgatgata ttttttgggt ttttatctgg attataataa attccatcca
841 tttcatgatg aattttatca tcaagccctt tgactttatt taaactaatt cttttatagc
901 ctttagcttt gtaatattha tccatttgca tttcagcata attacctttt tgctgattat
961 tttttggggt ttttaaacca ctaagattaa attaaatcat aaggaaagta tttgtattgt
```

1021 ttaaattctt ctttatctaa attcattagt tttacaattg ctgcaccttc aagatcccaa
1081 gtatctagag g

//

LOCUS ECFEEEMN_17 980 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source

1..980

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(12..641)

/locus_tag="ECFEEEMN_00073"

CDS

complement(12..641)

/locus_tag="ECFEEEMN_00073"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:ECFEEEMN_00073"

/translation="MSFELIFLFFCSSWFVVLVLSAAIISKVFALSVPFSLSLAC*G

F*RLSIISLCFSTLS*FLCKNSSLPRLSFSFVLGFFRNSSIFFNFSSSVITSFKLS

SSLSKILVISSAFFPQAFLLIPIACCILSSSVNFSFPFKAFKSSGLCKAKLGFFILAM

LL*KVKSIFFPFFLKSVTTKPLSSKGTGSKCNFSFLSKDINLGIKT"

ORIGIN

1 aaaaaaggaa tttatgtttt aataccaaga ttaatatctt tagataaaaa cgaaaaatta
61 cactttgatc ctgtgccttt agaagataag ggctttgtgg ttactgattt tagaaaagga
121 aaaaaggag aaaaaatat agatttaacc tttcaaagaa gcatagctaa aataaaaaac
181 cctaatttag ctttgcaaag tcctgaagat tttttaaag ctttgaatgg gaatgaaaaa
241 tttacagaag atgataaaat acaacaagcg atgggtatta aaaaagcttg tggaaaaaaa
301 gcagatgaaa tgactaaaat cttgcttaa gatgatgaaa gttttaaaga tgttattaca
361 gatgaagaaa aattaaagaa aaaaatcgaa gaattacgaa aaaaaccaa acaaatgaa
421 aactaagcc tactaggcag acttgaattt ttacaaagaa atcaagataa agttgaaaaa
481 cataagata ttattgaca tcttcaaac cctcaacaag ctagtgataa tgaaaaagat
541 ggtactgata atgcaaatc tttagatata atggcagcag ataacaccac cacctcaaac
601 caagaagaac aaaaaaaca aatatcaat tcaaaagaca taggagatgc aggagaatat
661 gctgtctcta tgctttttac taaaagatca actaggtatt tatccaatag aagaaaacta
721 gatgctaatt ttaatactaa aggttttaat catactatac ctgatttttt agtaacctta
781 aatgattacc ctactttagt agaggttaaa aatatccaag atcaagcttt aacagaacaa
841 ataagctttg aattaaact ggctagagaa tatgaacttg attattttatt tatatgcaat
901 cactatacaa aattggtaga taatataacc aatctaaaag tatttaataa agacaatgaa
961 aacacaaag gatcaagaag

//

LOCUS ECFEEEMN_18 965 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..965
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene complement(637..849)
/locus_tag="ECFEEEMN_00074"

CDS complement(637..849)
/locus_tag="ECFEEEMN_00074"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:ECFEEEMN_00074"
/translation="MTSEQIRKKFNIIYWDDKECKKDKNYIEKHSKLLNDAIKKAKESE
*GNRNLLY*CQFSYQRISKGLYTGKL"

ORIGIN

```

1 tctatatttt tttctccctt ttttcctttt ctaaaatcag taaccacaaa gcccttatct
61 tctaaaggca caggatcaaa gtgtaatttt tcgtttttat ctaaagatat taatcttggg
121 attaaaatat aaattccttc ttgaaagcat ttatcaaaaa aatctgctcc aactttggct
181 atgccattat ttacttttaa gccatcaccg aatcctaatt ctttatntaa acttttatct
241 ttattgtcct tacttgtata aacatcgtaa aagatatcat agtcttttaa atcatctgta
301 tttcttgata aaggtttagc ttctctttct tcataggctt catttagcgt attaataatta
361 ttctcatcaa aataagcatt gattgcatca tttccatggt catcattgct aaataatata
421 tttttacttt tttcctcttt ttctctttct ttttctcttt cttttatntt gttttgcaca
481 gaagttttat taatgcctac agcttcttcc tctatnttgt tttttaattc attttctttt
541 tcaactataa aagaaaatnt atntttatnt tgttctatcc tgattactnt ttttccatnt
601 tgcgnttgta aatgaaaagg actgtaaaaa cataatntac aatnttccag tatataaacc
661 ttttgaaatt ctttgatatg aaaatntgaca tcagtaaagt aaatntctat tccctcattc
721 actntctnta gcctntntta tagcgtcgtt taaaagnttg gagtgtnttt ctatatagnt
781 tttatctntt ttacactctt tgtcatccca atatatatta aactntctnt tgatntgctc
841 tgaagtcatt gtcctgcat cttntaaaag cttntatnt ctagatcctt ttgcaatntc
901 taaaggggtg cttggggtag caaatnttac atntgctcca agntcaatta aaagctgntg
961 aacc

```

//

LOCUS ECFEEEMN_19 909 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..909
/organism="Campylobacter species"

```

        /mol_type="genomic DNA"
        /strain="strain"
gene     29..160
        /locus_tag="ECFEEEMN_00075"
CDS     29..160
        /locus_tag="ECFEEEMN_00075"
        /inference="ab initio prediction:Prodigal:002006"
        /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:ECFEEEMN_00075"
        /translation="MKKHTRLRDLPLDWDLEGAAIVKLMNLDKEEFKSYKYFPYDLI"

```

ORIGIN

```

1 taaggatatt gagtttttac atcaatatat gaaaaaacat acaagattaa gagatcctct
61 agatacttgg gatcttgaag gtgcagcaat tgtaaaacta atgaatttag ataaagaaga
121 atttaaaagc tataaatatt ttccttatga tttaatttaa tcttatttgg ataacagaaa
181 agagtagaga tagacttggc attgtagata aaaaacatag ggaaaaaata gaagaacttc
241 ttgaaaaaaa tagcaatgaa gtcagaaaag atttatttca tgttgatgaa ggaggtaaag
301 aaactattga ttatttagat aaagatgcaa ataaaataaa acccaaagga taaaaaatgc
361 taagagatac taagagagat gaagcgtatt ttacgaaaca tataatagag tgtgaagaag
421 aaattaaaga agatgaaaaa atacttttag agcttccttt tggaaaaaga gaaacttgtc
481 ttttttgtat aacagataga aaaaaatgta ttgctatgga taaatactct cgtggatgatg
541 atataaatct agttaaaaaa gatttagaag cacttatgct attaagacaa aaaaatcgtt
601 tagaattagg tggatttgat actagcgatt atagaggaaa tgctattgaa ctttgtgtta
661 gagtattatt agatatggat agtgcttgtg tattagaatt aatagaagaa gatgagagaa
721 agaaaaaaga tatttttaat agagattggg ttttacattt tatgggttct aagggtaaaa
781 acttaaattt agaacgcaa tgtaattgta aagaacacga gcttattaaa gaattttag
841 ctactaagga tattgagttt ttacatcaat atatgaaaaa acatacaaga ttaagagatc
901 ctctagata

```

//

```

LOCUS      ECFEEEMN_20                897 bp    DNA        linear        12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..897
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     7..576
            /gene="trxB_4"
            /locus_tag="ECFEEEMN_00076"
  CDS     7..576
            /gene="trxB_4"
            /locus_tag="ECFEEEMN_00076"
            /inference="ab initio prediction:Prodigal:002006"

```

```

/inference="similar to AA sequence:RefSeq:CKG86288.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:ECFEEEMN_00076"
/translation="MHKNPLREQQIKTLAKTLKPDEFGLMPFIDEIMGVDWVIDLNKY
DIASDQFGSMYKALRSDVVEGKIKDPRDIDSTYESRREFDRHRGGYKNGMLQGYGTD
PNDWSEERAQLFNDTLILHAKLAALTPPQGYPNAPYYFTPENLEWYYKRHKLDKLLDP
RIPAIYRYNFPRELRAKILKFGEENGIKE"

```

ORIGIN

```

1 gtaggagtgc ataaaaatcc ttttaagagaa caacaaatta aaaccttagc taagacttta
61 aaacctgatg aatttggtat gcttcctttt atagatgaga ttatggggagt agattggggtg
121 attgatttaa ataaatatga tatagctagt gatcaatttg gaagtatgta taaagcctta
181 agaagtgatg tggttgaggg taagataaaa gatccaaggg ataatagattc tacttatgaa
241 agcagaaggg aatttgatcg ccatagaggt ggatataaaa atggcatgct gcaaggctat
301 ggaaccgata cacctaataa ttggagtga gaaagggcac aactttttta tgatacttta
361 atacttcatg ccaaactcgc agccctcact cctcctcaag gctatcctaa tgcaccttat
421 tattttacc ctgaaaacct agaatgggtat tataaaagac ataagcttga taaactcctt
481 gatccaagaa tccctgcat ttatagatat aatttcccaa gggaacttag agctaagata
541 ctcaaatttg gcgaagaaaa tggcattaaa gaataaagta attacctagg cagattagcc
601 actactataa tcatggaaga tggtttatat atgggataaa ttaagaaagg ataaaagatg
661 agtgataata aagatattta cgagatctat acttctaag gacttatatt agaagttgat
721 aaaaatacaa atcaaattat atttgataaa agagaagatg ggcgtgaagt aggcaaatac
781 acccaagaat attctaaagc tttgtttgaa gccgatagaa ttttaagaac ctctccttat
841 attaattatc aacctaggta tctagatcct gaatttcaca cagggcaaaa atccact

```

//

LOCUS ECFEEEMN_21 869 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..869

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

68..565

/gene="trxB_5"

/locus_tag="ECFEEEMN_00077"

CDS

68..565

/gene="trxB_5"

/locus_tag="ECFEEEMN_00077"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG86288.1"

/codon_start=1

/transl_table=11

/product="thioredoxin reductase"

/protein_id="Prokka:ECFEEEMN_00077"

/translation="MLPFIDEIMGVDWVIDLNKYRLANDEFGLDIYKALRSDVVEGKIK

DPRDIDSTYESRREFDRYRVGYRKGMRQGYETDTPNDWSEERAQLFNDTLILHAKLAA
LTPPQGYPNAPYYFTPEKLEWYYKRHKLDKLLDPRIPIYRYNFPRELRAKILKFGE
NGIKE"

ORIGIN

```
1 taaaaatcct ttaagagaac aacaaattaa aaccttagct aagactttaa aacctgatga
61 atttggatg cttcctttta tagatgagat tatgggagta gattgggtga ttgatttaaa
121 taaatataga ttagctaata atgaatttgg ggatatatat aaagccttaa gaagtgatgt
181 agttgagggc aagataaaag atccaagaga tatagattct acttatgaaa gcagaaggga
241 atttgatcgt tatagagttg gatatagaaa gggtagagg caaggttatg aaaccgatac
301 acccaatgat tggagtgaag aaagggcaca actttttaat gatactttaa tacttcatgc
361 caaactcgca gccctcactc ctcctcaagg ctatcctaata gcaccttatt attttacc
421 tgaaaaacta gaatggtatt ataaaagaca taagcttgat aaactccttg atccaagaat
481 ccctgctatt tatagatata atttccaag ggaacttaga gctaagatac tcaaatgtg
541 cgaagaaaat ggcattaaag aataaagtaa ttacataggc agattagcta caactataat
601 catggaagat ggtttatata tgggataaat taagaaagga taaaagatga gtgaaactta
661 tgaattttat acacctaata gtattatatt agatgtagaa aaagaaacga ataaaat
721 attaagtgat gggggagcta aggtaggcaa atacaccaa gaatattcta aagctttg
781 tgaagccgat agaattttaa gaacctctcc ttatattaat tatcaacctg ggtatctaga
841 tcctgaattt cacacagggc aaaaatcca
```

//

LOCUS ECFEEMN_22 859 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

source

Location/Qualifiers
1..859
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene

2..571
/gene="trxB_6"
/locus_tag="ECFEEMN_00078"

CDS

2..571
/gene="trxB_6"
/locus_tag="ECFEEMN_00078"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86288.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:ECFEEMN_00078"
/translation="MHKNPLREQQIKTLAKTLKPDEFGLMPFIDEIMGVDWVIDLNVY
QNFDAWGKIYRALRSDVVEGKIKDPRDVDSTYESRREFDRYMDGYQNGMTINYHVDI
NNYRSEESAKLFMDSLVLVLEAKLAALTPPQGYPNAPYYFTPERLEWDYKQYQLDKLLDP
RIPAIYRYNFPRELRAKILKFGEENGIKE"

ORIGIN

```
1 agtgcataaa aatcctttaa gagaacaaca aattaaacc ttagctaaga ctttaaaacc
61 tgatgaattt ggtatgcttc cttttataga tgagattatg ggagtagatt gggtagattga
```

```

121 tttaaatggt tatcaattta attttgatgc atggggaaaa atatatagag ccttaagaag
181 tgatgtagtt gagggcaaga taaaagatcc aagggatgta gattctactt atgaaagcag
241 aaggagttt gatcgttata tggatggata tcaaaatggt atgacaatta attaccatgt
301 agatataaat aattatagaa gcgaagaatc agctaaatta tttatggatt ctttggatt
361 agaggccaaa ctgcagccc tctcctcc acaaggctat cctaatgcac cttattattt
421 taccctgaa agactagaat gggattataa aaattatcaa ttggataaac tccttgatcc
481 aagaatccct gctatttata gatataatcc cccaaggga cttagagcta agatactaaa
541 atttggtgaa gaaaatggca ttaaagaata aagtaattac ataggcagat tagccactac
601 tataatcatg gaagatggtt tataatgggg ataaattaag aaaggataaa agatgagtga
661 aacttatgaa atttatacac ctaatggtgg tatattagat gtggaaaaag aaacgaataa
721 aattttactc tatgatgggg gagctaaggt aggcaaatc acccaagaat attctaaagc
781 tttgtttgaa gccgatagaa ttttaagaac ctctccttat attaattatc aacctaggta
841 tctagatcct gaatttcac

```

//

LOCUS ECFEEMN_23 835 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

```

Location/Qualifiers
source 1..835
        /organism="Campylobacter species"
        /mol_type="genomic DNA"
        /strain="strain"
gene 145..639
        /locus_tag="ECFEEMN_00079"
CDS 145..639
        /locus_tag="ECFEEMN_00079"
        /inference="ab initio prediction:Prodigal:002006"
        /inference="similar to AA sequence:RefSeq:CKG87598.1"
        /codon_start=1
        /transl_table=11
        /product="methyltransferase small"
        /protein_id="Prokka:ECFEEMN_00079"
        /translation="MKKKIQELKSINNLSTKQKGNVGEAKMDLYYKQGYKRISLNKV
KGLDDKIHGIDGIYHNPDKNPKYIIAEAKFGKGDLLKKTGKYKQMSDEWITEESRNL
GVVDKKHRKKIEELLKENNNEVRKDLFHVDKKGVS IKELDKNAKTKNLIERIENKGG
YEER"

```

ORIGIN

```

1 ggaggtaaaa gaagtaagaa aaataaaaat gatagagcaa agcaaataca agcattaaaa
61 aataatcagc aaaacaacaa acaaaattca tttttacaag aagttgaaca acaaaaagaa
121 gaggctgaaa aagtttttagc agatatgaaa aaaaagatac aagaattaaa aagtattaat
181 aacttaagca caaaacaaaa aggtaattat ggcgaagcta aatggattt gtattattta
241 aaacaaggct ataaaagaat tagtttaaat aaagtcaaag ggcttgatga taaaattcat
301 catggaattg atggaattta tcataatcca gataaaaacc caaatatat catcgcagaa
361 gctaagtttg gaaaaggtag tttaaaaaaa actggaaaat acaaacaaat gagtgatgaa
421 tggataacag aagagagtag aatagactt ggtgtttag ataaaaaca taggaaaaaa
481 atagaagaac ttcttaagga aaataacaat gaagtcagaa aagattttatt tcatgttgat
541 aaaaaaggca atgtgagtat taaagaatta gataaaaatg caaaaaccaa aaacttaata

```

```
601 gaaaggatag aaaatggtaa gggatacgaa gagagatgaa gcgtatttta cgaacatat
661 aatagagtgt gaaaaaaaaa tcaaagaaga tgaaaaaaga ctcttagaac ttccactagg
721 agatgcaaga agggaaaatt attttttttc tataacagat aaaaaaaaaat gtattgctat
781 ggataaatac tctcgtggcg atgatataaa tccagttaaa aaagatttag aagca
```

//

LOCUS ECFEEMN_24 730 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..730
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 aatcaagttc atattctcta gccagtttta attcaaagct tatttgttct gttaaagctt
61 gatcttggat atttttaacc tctactaaag tagggtaatc atttaaggtt actaaaaaat
121 caggtatggg atgattaaaa ccttttagtat taaaattagc atcaagtttt cttctattgg
181 ataaatacct agttgatcct ttagtaaaaa gcatagagac ggcatattct cctgcatctc
241 ctatatcttt tgaattgatg gttttatfff tttgttcttc ttggtttgag gtgggtgttat
301 tcgttttggt atctgaaaag tcatcatcag caccatcttt ttcattatca ctagcttggt
361 gagggttttg aagattgtca ataatatctt tatgttcttt aacctttttt tgatttcttt
421 gtaaaaattc aagtctacct agtaggctta gttttttatt tgttttgggt tctcctcgca
481 attcttcgat ttttttctct aatftttttt catctcfaat aatatctttt aaattttcat
541 catctcfaat aatatctttt aatfttttctt catctcfaat taatattttg gttattttcat
601 ctactttttt tccacaagct tttttaatac ccatcgcttg ttgtatttta tcatcttctg
661 taaatttttc attccattc aaagctttta aaaaatcttc aggactttgc aaagctaaat
721 tagggttttt
```

//

LOCUS ECFEEMN_25 701 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..701
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

ORIGIN

```
1 ctcttacag gctccaccga actccctaat aatccttttt actttggaga attagatcaa
61 gataatacta taaaacaaga tatacccgat tattattttt ctcttaaaga tgaagcagct
121 ggtttaggaa gacttagcat cttttataaa aatgatgaac tttgcttgct taattattct
```

```

181 atattagaca attctttaa tatcaaatta gaatgcttaa gcaaacaag cttagaatac
241 aaagatttaa tttcaaacac tctaaaagaa caaaaaacca cacaagtaga taaaaaaca
301 agcatagcca aacttcacgc tcttttagaa aatcaaaacc tagaatgtat ccatggagg
361 aaagtcatac ttaaatcaaa caaaggaaaa tcctttaa gtagatggtat ccctataatg
421 ctagaaagtg atttatata ctctagtata gtagcttgtc ctcacacat agcaaatgta
481 agttatcctt gtactaagg agtggatatt aaaggctcct tatctcaaaa gaaagtaaat
541 aatgaatttg taatcttaca agaactcatc tcagcttgca ctacagataa aggctttgct
601 ttaaaagtaa gctttactcc aagtaagttt aaatttgatc acagctttga tcctgaggag
661 ggcttaggag aacaaagtaa aatcaaaata gagttaaag a

```

//

LOCUS ECFEEEMN_26 684 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..684

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene complement(218..394)

/locus_tag="ECFEEEMN_00080"

CDS complement(218..394)

/locus_tag="ECFEEEMN_00080"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:ECFEEEMN_00080"

/translation="MSKKFIA*VLALNPVMESCKAPINPFISPSIPAANSHSAIKSQP

LCILAIPLLASTSL"

ORIGIN

```

1 ggcaaagcat atatttaaaa gatcctatca aaggagctat agctccttgg actaaagcag
61 aaaaagctta ttataaatct ttaaaaacta aaagagaaag atataaatat ttaattataa
121 gaagtggact tagaagtact gttatagata taccttatga tgcttattgt aatgtagatg
181 aaaaaggaaa ttaaatcaat aaagactata agaactcta taaagaagta gaagctaata
241 gaggtatggc taatatgcat aaaggttggc tctttatggc tgaatgggaa ttagcagcag
301 gaatactagg agatataaaa ggatttatag gaggccttaca actttccatg acaggattta
361 aagcaagaac tcaagcaata aatTTTTTtac tcatacaact aggacatgaa caaggTTTTa
421 aaagtcttta tgattcttat gcatatagag gttaaacaga tggatatacac aaaactctc
481 ttaaagctca aatgctaaaa gactttgcta aaaatcctcc ttatgatgaa tttggaatgc
541 tacctttctt agatgagctt ataggagtgg attgggtgat tgatttgaat gaatatcaat
601 ttgcttatga tggatgatggc ggtagtgta aggctttaga tgagaaagta agacaaggta
661 aattaaaga tccaagagat atag

```

//

LOCUS ECFEEEMN_27 614 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

```

KEYWORDS      .
SOURCE        Campylobacter species
ORGANISM      Campylobacter species
              Unclassified.
COMMENT       Annotated using prokka 1.14.6 from
              https://github.com/tseemann/prokka.
FEATURES      Location/Qualifiers
              source          1..614
                          /organism="Campylobacter species"
                          /mol_type="genomic DNA"
                          /strain="strain"
ORIGIN
      1 atctagaatg gtattataaa agacataagc ttgataaact cttgatcca agaatccctg
      61 ctatttatag atataatttc ccaagggaac ttagagctaa gatactcaaa tttggcgaag
     121 aaaatgggat taaagaataa agtaattaca taggcagatt agccactact ataatcatgg
     181 aagatggttt atatatggga taaattaaga aaggataaaa atgagtgata ataaagatat
     241 ttacgagatc tatacttcta atggacttat attagaagtt gataaaaaata caaatcaaat
     301 tatatttgat aaaagaaaag atgggcgtga agtaggcaaa tacaccaag aatattctag
     361 agctcttttt gaagcacaca atatcaaca aaactctcc tacaagact atcaacctag
     421 gtatctagat cctgaatttc acacagggca aaaatccact ttgcttgaat ttaaagattg
     481 gcaaagcata tatttaaaag atccattaa aggaagcata gtccttggga ctaaagcaga
     541 aaaagcctat tataactcac taaaactaa aaaagaaaga tataaatatt tagttataag
     601 aagtgtata agaa

//
LOCUS          ECFEEMN_28                586 bp    DNA        linear        12-APR-2021
DEFINITION     Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS      .
SOURCE        Campylobacter species
ORGANISM      Campylobacter species
              Unclassified.
COMMENT       Annotated using prokka 1.14.6 from
              https://github.com/tseemann/prokka.
FEATURES      Location/Qualifiers
              source          1..586
                          /organism="Campylobacter species"
                          /mol_type="genomic DNA"
                          /strain="strain"
ORIGIN
      1 aatcaatcac ccaatctact cccataatct catctataaa aggaagcata ccaaattcat
      61 caggttttaa agtcttagct aaggttttaa tttgttgctt tcttaaagga tttttatgca
     121 ctctactaa accacttctt actgcaatat ctgcataacc ataaatagca cccaataaat
     181 taggtttatc tagtatacta cttcctccgc ttaattgtat ataaagtata gttgcttggga
     241 taaatcttgc attaaaacca ttttgagaca tatcgttagc tagatattta taatcaccca
     301 gtattcctgc tgccataacc cattcattat gaaataaact tgatctttaga ttatgtttat
     361 tatcatctac tgttctatat aattcttcat acttaggatc tacatttctt ttttcatcta
     421 cagctcctat agcttcataa ggtatatcta taacaacact tcttatacca cttcttataa
     481 ctaaattatt atattcttct tttttagttt ttagtgagtt ataataagct ttttctgctt
     541 tagtccaagg agctatgctt cttttaatgg gatcttttaa atatat

//
LOCUS          ECFEEMN_29                537 bp    DNA        linear        12-APR-2021
DEFINITION     Campylobacter species strain strain.
ACCESSION

```

```

VERSION
KEYWORDS .
SOURCE Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT Annotated using prokka 1.14.6 from
         https://github.com/tseemann/prokka.
FEATURES Location/Qualifiers
  source 1..537
         /organism="Campylobacter species"
         /mol_type="genomic DNA"
         /strain="strain"

ORIGIN
  1 agaacaacaa attaaaacct tagctaagac tttaaaacct gatgaatttg gtatgcttcc
  61 ttttatagat gagattatgg gagtagattg ggtgattgat ttaaataaat atgatatagc
 121 tagtgatgaa tctggaaaaa tatacaaagc cttagaagt gatgtagttg agggcaagat
 181 aaaagatcca agagatatag attctactta tgaaagcaga agggaatttg atcgccatag
 241 aggtgggtat aaaaatggca tgagggaagg ctatgaaacc gatacaccca atgattggag
 301 cgaagaagaa gcacaacttt ttaatgatac ttaataactt catgccaaac tagcagccct
 361 cactcctcct caaggctatc ctaatgcacc ttattatfff acccctgaaa atctagaatg
 421 gtattataaa agacataagc ttgataaact cttgatcca agaatccctg ctatttatag
 481 atataatttc ccaagggaac ttagagctaa gatactcaa tttggcgaag aaaatgg

//
LOCUS      ECFEEEMN_30                518 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .
SOURCE      Campylobacter species
  ORGANISM  Campylobacter species
            Unclassified.
COMMENT Annotated using prokka 1.14.6 from
         https://github.com/tseemann/prokka.
FEATURES Location/Qualifiers
  source 1..518
         /organism="Campylobacter species"
         /mol_type="genomic DNA"
         /strain="strain"

ORIGIN
  1 cccttgggaa attatatcta taaatagcag ggattcttgg atcaaggagt ttatcaagct
  61 tatgtctttt ataataccat tctagatttt caggggtaaa ataataaggt gcattaggat
 121 agccttgtgg aggagtgagg gctgaggtt tggcagttaa tatcatagaa tctattctta
 181 attgtgcact ttcttcactc cgatcatttg gaatatcata accataagca tttaccatgc
 241 cgttataata tcctccccta tggcgatcaa attcccttct gctttcataa gtagaatcta
 301 tatctcttgg atctttttatc ttgccctcaa ctacatcact tcttaaggct ttatacatac
 361 ttccaaattc atcgcgagca attctatacc tgttataatc aatcacccaa tctactccca
 421 taatctcatc tataaaagga agcataccaa attcatcagg ttttaaagtc ttagctaagg
 481 ttttaatttg ttgttctctt aaaggatttt tatgcact

//
LOCUS      ECFEEEMN_31                518 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .

```

SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
 source 1..518
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"

ORIGIN
 1 taagttccct tgggaaatta tatctataaa tagcagggat tcttggatca aggagtttat
 61 caagcttatg tcttttataa taccattcta gtttttcagg ggtaaaataa taaggtgcat
 121 taggataacc ttgtggagga gtgagggctg cgagtttggc agttaatatc atagaatcta
 181 tttttaattg cgcatcattc caatcatttg gaatatcata accataggca ttaatcatgc
 241 cattagaata accatccata taataatcaa actcccttct gctttcataa gtagaatcta
 301 tatcccttgg atcttttatc ttgccctcaa ctacatcact tcttaaggct ttatatatat
 361 ccccaaattc atcttcagaa atttgatatt cgttataatc aatcacccaa tctactccca
 421 taatctcatc tataaaagga agcataccaa attcacagc ttttaaagtc ttagctaagg
 481 ttttaatttg ttgttctctt aaaggatttt tatgcact

//

LOCUS ECFEEEMN_32 514 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
 source 1..514
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"

gene complement(231..380)
 /locus_tag="ECFEEEMN_00081"

CDS complement(231..380)
 /locus_tag="ECFEEEMN_00081"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:ECFEEEMN_00081"
 /translation="MALILSKQSFVGS SPSLNKPGSRYS LTLSPKVYITISP GFDMDG
 SDELR"

ORIGIN
 1 cttttatggt ttgcgcttta tttgtttcct agattattta atcctagcaa agaaatagat
 61 tataaatggt ttatagtttt ttttacattt cttttagtta tatatgcact tgcacaaaag
 121 atctataaaa tggcaaatat taaaagaatt tatgtcacia aagaaaaact tgtggttgag
 181 tattatatca aaaatgattt ggtttttcct ttaggaactt tttttgtata ttatcgtagt
 241 tcgtcacttc catccatc aaatccagga gatatagtga tatacacctt cggagataaa
 301 gtcaaagaat accttgaacc tggtttattc agtgatggcg atgatccaac aaaagattgt

```
361 ttgaaagaa ttaatgcat tataaagcct catgtaatgc cttatttatt aagcttaagt
421 gatgaagaat ttgaaaaaat catttcacat gtaagcggtt ataacgaaat tggtagcact
481 ttccttaaag aagcaatgga actcagaaaa gaga
```

//

LOCUS ECFEEEMN_33 507 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..507

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene

complement(301..441)

/locus_tag="ECFEEEMN_00082"

CDS

complement(301..441)

/locus_tag="ECFEEEMN_00082"

/inference="ab initio prediction:Prodigal:002006"

/inference="similar to AA sequence:RefSeq:CKG86746.1"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:ECFEEEMN_00082"

/translation="MWYMKIFKDYQKFTPYGLDFRLYSKDFIAKLDFKDKAYNVLYNT
GV"

ORIGIN

```
1 cgctttatat tcttgtggtg acaattcttt agcttctaga gagctaagca atgcaagatc
61 cttagaagtt tcaataccat aggtaagata aaatatgata acaatagctg taaaaaagat
121 aataaaaagat attaaaaaat aagattttac aaattctttt atattaatct tgatccaata
181 atttaaaata gaaaagacaa taagaacgct taaagtggta agataaaatt ttatattagt
241 aaaagcaaga ataaatccaa ataaaccca aaaaatagaa aatgtaatat cttctcccat
301 ttaaactcct gtattataaa gcacattata agctttatct ttaaaatcaa gtttggcaat
361 aaaatcttta ctataaagtc taaaatccaa accataagga gtgaattttt gatagtcttt
421 aaagattttc atataccaca tacacactcg caattaatat aggagcatta cacacaaacc
481 ctataaacca acttaatttt ttgcggt
```

//

>>BfR-CA-15863_min_cov_30 putative plasmid location

LOCUS CIKGLNE_1 5012 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from


```

https://github.com/tseemann/prokka.
FEATURES             Location/Qualifiers
    source            1..5012
                     /organism="Campylobacter species"
                     /mol_type="genomic DNA"
                     /strain="strain"
    gene              complement(474..1034)
                     /locus_tag="CIKGKLE_00001"
    CDS                complement(474..1034)
                     /locus_tag="CIKGKLE_00001"
                     /inference="ab initio prediction:Prodigal:002006"
                     /codon_start=1
                     /transl_table=11
                     /product="hypothetical protein"
                     /protein_id="Prokka:CIKGKLE_00001"
                     /translation="MTYILLIIISTILSYLILKFIYKIIIFKSTKSVSKFLVFLGSIG
LIIFYYPYSYYLEPSYWQFRNMCKLNELPNNEEKYNKILGYFDKKGIDDFRHVKK
YGSIEMWLYIYDDTYKTPSNFQEKIEMDNIALKTKNMQMSLHKIVDMHISPYWNTRR
YVLEGNENMNFIEDELACGNLYQ"
    gene              complement(1261..2034)
                     /locus_tag="CIKGKLE_00002"
    CDS                complement(1261..2034)
                     /locus_tag="CIKGKLE_00002"
                     /inference="ab initio prediction:Prodigal:002006"
                     /inference="similar to AA sequence:RefSeq:AJK71138.1"
                     /codon_start=1
                     /transl_table=11
                     /product="glutamyl-tRNA amidotransferase"
                     /protein_id="Prokka:CIKGKLE_00002"
                     /translation="MKEINEEKALSLLLDSNFDGLKNNKIIDYSLELLLLSYRLSKI
SSMDTSNINQLRETLINKILDITAKLSMCKEYDEKEIIFKCYCLCVFIDESLMKNELF
INFWAHNTLTVRLFDETLGGNNFYDIASSWINNPFKFKDFLEFIYAACLILGYKGKYNE
AKDRDEKIIHFCNNIATSLRPVYKTEEELAFNKAYKIGLEENIWQKFIRLYFKKLIII
VPVLIVLGVLSFAIFNLETNNLKVDNNSVLIKNLTHIE"
    gene              complement(2031..2612)
                     /locus_tag="CIKGKLE_00003"
    CDS                complement(2031..2612)
                     /locus_tag="CIKGKLE_00003"
                     /inference="ab initio prediction:Prodigal:002006"
                     /inference="similar to AA sequence:RefSeq:AJK71139.1"
                     /codon_start=1
                     /transl_table=11
                     /product="type VI secretion protein"
                     /protein_id="Prokka:CIKGKLE_00003"
                     /translation="MSMSIKIHPEFLYEKFLFQGELAAFSNEESFLDFIPYKHDNLY
NTFLNMMNLRLLFSKITS PKYFIAKISINGNGFYDFIFDMSGILEDAEIYFAIRADV
TTEYLLNFKIQSKIHTQSKIKNIVATQLEGLNVDQVPNPSSIPYLVNGYVYKIDKR
DQLFKDFKNESIISMYLTNNIKNPDIIMWAVFQ"
    gene              2622..4835
                     /locus_tag="CIKGKLE_00004"
    CDS                2622..4835
                     /locus_tag="CIKGKLE_00004"
                     /inference="ab initio prediction:Prodigal:002006"
                     /inference="similar to AA sequence:RefSeq:AVS37497.1"

```

```

/codon_start=1
/transl_table=11
/product="type VI secretion protein VgrG"
/protein_id="Prokka:CIKGLNE_00004"
/translation="MIKQTLGFYQDILHKEIDYSHIHFNYEEQELISQYNESDLEFIT
RLAHNNGIFFYEDENTIYFCDVYKVNKNEIEYNPNVNNILNQACISSIYKEQSLRTN
AFTHSSINANTPLNLLSLHSSKVPYEQELNNKAYYNEHFYESEYSFTRSIDLKTKPSL
KEKRALILNESLLAKSNIYHLSLGDFFITLNYKEFNLSGLSDDEDTKSQDEEKQDKASL
LKDFIIIANTQILIDDALLANSINTNDHLNLKDLNLSKSYSNTLTLKKNIIFTSPFK
AKPKAPHNTQGIVIGESKDIESERNIYTDYGRVKVRINLYANQEELDNNLLSANIK
TNTHENTNNTDSKDNTNFTSSNHLSSNAYKSYHHTPFLRVATSIANSHSGFFHTPRV
GDEVIVSFLDDDIDKPYVSSSLYNGATTMPQYNYPRYKREIATNALSYSVAPAMIDK
GLDTLKLQENTDYELSSINNHYLTLANSTIGVDNADARARNEITLKNDKDKEEYILA
QKDYKEEIGNNYEQTIKNNKTSEVGALYTEFITLGHMQNIIGFKNVNVGAEYLENTLL
SKDTNVGLNNTLVNGISNEVNIGQNHEEKIGNDKRVIINNNLEQDIKNDFIQRIGHNK
NETIKGSYVLQTNQSIKFSYKQDLSIETNDCFKAEADTFVSVFKAKKNCSFTADEVYTM
ANKESFLTAQKQIVSRVGNNTITQTKDKIILQVGTQVIIDSKGLRVQGGDLRAD"

```

ORIGIN

```

1  aaatataaaa  taatagaaaa  tataaaaaaca  aaaaagaaaa  atataagaat  aaatattaaa
61  agattaacaa  agaattctag  catttattaa  ctcctcttaa  ttttctctgt  cttttcataa
121  gacaaagcag  tgctaaaacc  acttgtagtg  ttggactgat  gaaatttaat  ctcatatctt
181  tgagaaaaat  ttctagcttg  taattctcta  aaatctccat  ttagtttcgc  ataaaaaaat
241  aaagaatcat  ctataaccaa  atatccatta  tattcatcat  gtaatgcttt  aaaatagtc
301  aatTTTTtcta  attcactctt  atctttaaaa  aatctagttt  tagatatttt  aaatcctaaa
361  gctTTTTgtc  cttcagtata  aacaaaatta  aaataactag  cttacacaaa  ttctgtataa
421  tctTTTaaat  tgttgatttg  ttctttattg  gtcattattt  attccttata  ttattattga
481  taaagattgc  cacaagcgag  ctcacacctc  ataaactcaa  aattcatatt  accctcattg
541  ccttctaaca  cataccttct  agtattccaa  tatggactta  tatgcatatc  aacaatcttg
601  tgtaaagaca  tttgcatatt  ttttgTTTT  agtgcaatat  tatccatctc  tatcttttct
661  tgaaaatttg  aaggagtttt  gtaagtatca  tcgtaatata  tataaagcca  catttctata
721  ctaccatatt  tttttacatg  tcgaaaatca  tctatgtcac  ctaacttttt  atcaaaaatac
781  cctagaatct  tattatattt  ctcttcgTTA  ttaggaagtt  catttaactt  acacatattc
841  ctaaattgcc  aataacttgg  ctctaaataa  taagaatatg  gagtataata  aaagataatt
901  aaacctatac  ttccaagaaa  gactaaaaac  tttgaaacgc  tttttgtaga  tttaaagatg
961  attttataaa  taaattttta  tataagataa  gaaagaatag  tagaaattat  aataagaagt
1021  aatatgtatg  tcattataag  ttatttcctt  tagattatct  attttattaa  aattaagatg
1081  taattttgtg  gtttagtggt  agcagtataa  ctttttcttt  atcattaaaa  taatagagct
1141  tgtTTTTtca  tatattttta  tccttttagat  ttgtatttga  tttttattct  agctgtaaaa
1201  taatttttat  ttaattttac  tcataacaaa  taaattgata  tttaaaaaaa  tttaatatct
1261  ttattctata  tgtgttaaAT  tttttatcaa  tacagatata  ttgttatcca  ctttaagatt
1321  attggtttct  aaattaaaaa  ttgcaaagct  taatactcct  aatacaatca  atactggcac
1381  aatgataata  agttttttta  aatacaatct  tataaatttt  tgccaaatat  tttcttctaa
1441  accaattttg  tatgctttat  taaaagctaa  ctcttcttct  gtcttataaa  ctggtcttaa
1501  agatgtggca  atattattgc  aaaaatggat  tattttttca  tctctatcct  tagcctcatt
1561  atattttcct  ttataaccaa  gaatcaaaca  agcataaata  aattccaaaa  aatctttaaa
1621  cttaaaagga  ttattaatcc  aagatgatgc  aatatcataa  aaattatttc  cacctaaggt
1681  ttcatcaaat  aatcttacag  ttagagtatt  gtgagcccaa  aaattgataa  aaagttcatt
1741  tttcatcaag  ctttcatcta  taaagacaca  aagacaatat  ttgaatttaa  taatttcttt
1801  ttcatcatat  tctttacaca  tgcttagttt  agcggttata  tctaaaattt  tattaatcaa
1861  tgtttctcta  agttgattaa  tattacttgt  atccatagag  cttatttttg  aaagtctgta
1921  agaaagcaaa  agtaactcca  aagaataatc  aataatttta  ttgtttttta  aaccatcaaa
1981  atttgaatca  agaagtaagc  ttaatgcctt  tttttcttcg  tttatttctt  tcattgaaat
2041  accgcccaca  ttataaatatc  aggatttttt  atattgttgg  tcaagtacat  actaatgata
2101  ctttcatttt  taaaatcttt  aaacagctga  tctcttttat  ctattttata  ataaacgtaa

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2161 ccatttaa at aaggaatact agatggaaca ttaggtactt gatctacatt taagccttca
2221 agctgtgttg ctactatatt ttttaatttta ctttgcgtat gtatcttgct ttgaatttta
2281 aaattattaa gtagatattc tgtagtaaca tctgcacgaa ttgcaaaata aatttcagca
2341 tcctctaaaa ttcccagatt atcaaaaata aaatcataaa aaccattgcc attaatactg
2401 atcttagcta taaaatattt aggacttgtg attttggaaa ataacaatct taaattattc
2461 atcatattta aaaaagtatt ataaagatta tcatgtttat aaggaataaa atctaaaaaa
2521 gattcttcat tactaaaagc tgcaagctct ctttgaaatt ctaaaaattt ttcgtataaa
2581 aattcaggat gtatTTTTat actcatactc atatcataga agtgattaaa caaaccttg
2641 gTTTTatca agatatctta cataaagaaa ttgattattc tcatatacat tTTaattatg
2701 aagaacaaga acttatctct caatacaatg aaagcgattt agaatttatc acaagattag
2761 ctacaataa tggaatcttt ttttatgaag atgaaaacac tatttatttt tgtgatgtgt
2821 ataaaaatgt aaaaaataaa gaaattgagt acaatcctaa tgtgaataat attttaaatc
2881 aagcttgtat ttcttctatc tataaagagc aaagtttaag aactaatgct tttacacatt
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LOCUS CIKGLNE_2 3592 bp DNA linear 12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS .

SOURCE Campylobacter species
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 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

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ORIGIN

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ACCESSION
VERSION
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ORGANISM   Campylobacter species
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COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.

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 1621 gaaaggtagt atatgcaaga cctataaaaac atggTataaa gTTggaagat ttgtTTaact
 1681 tgccttctac gagtgcTagg cgtgtTgctt taagcagaca tatgtatagT ttgatagaaa
 1741 atgtTacaac aagagaagac gaaatTTTTT actTacaat agctggTTTT gaatattata
 1801 taggctggac aagaaaaagt ttttctatgc atgatgattc taaaaaatat ataagatgtg
 1861 agcctttgct ttatggTaaa actTgGaaag aaaatgctaa gataatggaa caaaaggcat
 1921 ttgataataa agaatatata ggcaagaag aatattTaca atattcacct tatcattag
 1981 agtataatac actttatcgc caaatagTta atTTcaaca aaagaaagag aattaatgat
 2041 atataattac aaatactctc ttggaatcta tgTTaatgat tggggctTTa tgatgggcag
 2101 tgagggaaac cctcatgtgt tcttaggact aaaaagagag caagtgcatt gtggcgatat
 2161 gcaaataaaa aacacaatat ataaataaac ttgattTTag agataaagct tataatgtgc
 2221 tttataatac aggagTTTaa atgggagata gtattacgct ttctatTTTT gtaggTTTat
 2281 tgctatccat tgctattatc acaaaatTTT atcttatagc tttatctgtg cttattgtct
 2341 tttctatTTT aaattattgg atTaaagatta atataaaaaga atTTgTaaaa tcttattTTT
 2401 taatatcttt tattatcttt tttacagcta ttgttatcgt atTTtatctt acttatgatc
 2461 ttgaaacttc taggggactt gtattacttg gTcctccaga agTTgaaaaa ttatcaccac
 2521 aagaatataa agcacataat tattTTaaat tTTTaaactt tacaactatg tTTTTTTgg
 2581 caatcacttt ttttatactc ccttgTTTTat tacaagctta tttatTTTaa tgTTatagca
 2641 caggagaaaa acgcaaaaaa tTaaagTTggt ttatagggtt tgcgtgTaat atctTTTTat
 2701 taattgtgag tTTTtataag ttatatgaaa atctTcaaag actatcaaaa attcactcct
 2761 tatggTTTgg atTTTaaact ttatagTaaa gatTTTatca cTaaagctTga tTTTaaagat
 2821 aaagcttata atgtgctTTa tgatacagga gTTTaaatgg gagatagtat tacattgtca
 2881 attattatgg gaatgttatt ttctattctt tattTTgTaa tTTTtataaa aaactatatt
 2941 ataataagctt tgattgtcct tgtTgtcttt tctattataa attattggat taagattaac
 3001 ataaaagaat ttgTaaaatc ttatTTTTTta atatctTTTta ttatctTTTt tacagctatt
 3061 gttatcgtat tttatctTac ttatgatctt gaaactTcta gagggctTgt attactTggt
 3121 cctccagaaa ttgaagaatt atcaccacaa gagtataaag tacatggTta tttcggattt
 3181 ttatTTTTTta caagtattgg cTTTTgtaca atcacatttt ttatactTcc ttgtTTtatta
 3241 caag

//

LOCUS CIKGLNE_4 1602 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .

SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1602
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"

gene 218..316
 /locus_tag="CIKGKLE_00019"

CDS 218..316
 /locus_tag="CIKGKLE_00019"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:CIKGKLE_00019"
 /translation="MSKNIKTQEAKLDLITKFLDYANCADASYAML"

gene 395..712
 /locus_tag="CIKGKLE_00020"

CDS 395..712
 /locus_tag="CIKGKLE_00020"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:CIKGKLE_00020"
 /translation="MKNSKGEDIVKPKNTNTAYACAIQARFEQNKIVKIEPKYCISLI
 NTCFDSKEITLDNDISRVGLNDALSKRTIDFVNRFKLLKHQPNTTNCMLKKQRKLRGV
 NKC"

gene 706..1332
 /locus_tag="CIKGKLE_00021"

CDS 706..1332
 /locus_tag="CIKGKLE_00021"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:CIKGKLE_00021"
 /translation="MLEFFINLLIFILIFFFVFIFSIILYFIFKIFYKLNKTKTIN
 FKTIFFKFTLFLPVYLLFLVGGCSYKYMDPQYYKFKSLCKDIDSKVVIYDKAYWEL
 YSDFTKKKPSIEKRVKDDGYEYFYEKLNETFAYYDIKDMIKSKKRNGNIITIVYDKK
 YKKMPKPFATYIRYKYENDGVFLRGDEGSLYFRYEEVFTCSYFDNFK"

gene 1341..1496
 /locus_tag="CIKGKLE_00022"

CDS 1341..1496
 /locus_tag="CIKGKLE_00022"
 /inference="ab initio prediction:Prodigal:002006"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:CIKGKLE_00022"

/translation="MSKNIKTQEAKLDLITKFLDYANIADASYAMLDLIDENDEKGF
LWYIKYKN"

ORIGIN

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1 aaaataaatt tactttaaca gaagttacat ttgaagatta ttatgatggt attcattatt
61 caacgcattt atcctatatt tatgataatt atggtatggt cttaaaaggt gatgagggtg
121 ctggattcta ttttagatat cataaaagac tgtatttgga agatgttaga taaaaaatta
181 gaaagataat ttgagattta gatttttgga ataacaaatg agcaaaaaca ttaaaacaca
241 agaagctaaa ttagacttaa tcactaaatt tttagactat gctaattgtg cagatgctag
301 ttatgcaatg ttgtaatatg tttgggaaaa tatagagcaa gatgaaaaga ataatattta
361 tacttttggg gataaattaa agcaagatat tgttatgaaa aatagtaaag gagaagatat
421 tgtaaaacct aaaaatacaa acacagctta tgcttgtgct atacaagctc gttttgaaca
481 aaataaaata gttaaaatag aacctaaata ttgtatttct cttataaata cttgttttga
541 tagtaaagaa ataacattgg ataatgatat tagtagggta ggattgaatg atgcactgag
601 taaaagaact attgattttg taaatagatt taaactttta aaacatcagc ccaacactac
661 aaattgtctt atgaaaaaac agagaaaatt aagaggagtt aataaatgct agaattcttt
721 attaactctt taatattttat tctttatatt ttcttttttg tttttatatt ttctattatt
781 ttatattttta tcttttaaat tttttataaa ttaaaaaata aaacaaaaac tataaatttt
841 aaaacaatat ttaaaaaatt tactttgttt cttttacctg tatatctttt attattctta
901 gtaggaggat gttcttataa atatatggat ccgcagtatt ataagtttaa gagcttgtgt
961 aaagatatag atagtaaagt aatcattttat gataaagctt attgggaatt gtatagcgat
1021 tttacaaaaa aaaagccttc tatagaaaaa cgagttaagg atgatgggta tgaatatttt
1081 tattatgaaa aacttaatga aacatttgct tattatgata taaaagatat gatcaaatct
1141 aagaaacgaa atggtaatat tataaccata gtatatgata aaaaatataa aaaaatgccc
1201 aagccttttg ctacatatat aagatataaa tatgaaaatg atggtgtatt cttagagggt
1261 gatgagggct ctggattata ttttagatat gaagaagtat tcactttagt ctattttgat
1321 aattttaagt aaggatataa atgagcaaaa acattaaaac acaagaagct aaattagact
1381 taatcactaa attttttagac tatgctaata tagcagatgc tagttatgca atgcttgatt
1441 taatcgatga gaatgatgaa aaaggttttt tgtgggtatat taaatataaa aactaaatth
1501 tttttatata aggtatttga aataatacaa tttaaaaagg agtattaaat gaaaatcaca
1561 atgataattc taagcttatt ttcttttagta tttttaagtg ca
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//

LOCUS CIKGKLINE_5 1595 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

Location/Qualifiers

source

1..1595
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene

242..778
/locus_tag="CIKGKLINE_00023"

CDS

242..778
/locus_tag="CIKGKLINE_00023"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86719.1"
/codon_start=1
/transl_table=11

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/product="hypothetical protein"
/protein_id="Prokka:CIKGLNE_00023"
/translation="MGDSITLSIFVGSLLSIAVITKFYLIASVLIVFSILNYWIKIN
IKEFVKSYFLISFIIFFTAIVIVFYLTGYIETSRGLVLLGPPEVEKLSQPQEKAHNYF
KFLTFTTMFFLAITFFILPCLLQAYLFKCYSTGEKRKKSLSWFIGFACNIFLLIVSFYK
LYENLQRLSKIHSLWFGF"
gene      857..1360
          /locus_tag="CIKGLNE_00024"
CDS       857..1360
          /locus_tag="CIKGLNE_00024"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:CKG86821.1"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="Prokka:CIKGLNE_00024"
          /translation="MGDGITLSTSLGLVGFIFAFTNIKFYLTTLVSVLIVFSILNYWIK
INIKEFVKSYFSIYFIIFFTAIVIIFYLTGYIETSRDLALLSSLEAKELSPQEKAYN
YFGFLTCMTMFFLVITFIILPCLLQAYLFKCYSTEKRKKSLSWFIGFLCNIIILIASV
YLMYIFI"

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ORIGIN

```

1 caagcttatt tatttaaagt ttatagcaca ggagaaaaac gcaaaaaatt aagttggttt
61 atagggtttg tgtgtaatcc tatattaatt acaagtatgt atgtgatata tgaaaatcct
121 taaagactac caaaaattca ctccttatgg tttggatttt aaactttata gtaaagattt
181 tatcaccaag cttgatttta aagataaagc ttataatgtg ctttataata caggagttta
241 aatgggagat agtattacgc tttctatfff tgtaggttca ttgctatcca ttgctgttat
301 cacaaaattt tatcttatag ctttatctgt gcttattgtc ttttctatff taaattattg
361 gatcaagatt aatataaaag aatttgtaaa atcttatttt ttaatatcct ttattatcct
421 ttttacagct attgttatcg tattttatct tacctatggg attgaaactt ctaggggact
481 tgtattactt ggtcctccag aagttgaaaa attatcacca caagaatata aagcacataa
541 ttatttttaa tttttaacct ttacaactat gttttttttg gcaatcactt tttttatact
601 cccttgttta ttacaagctt atttatttaa atgttatagc acaggagaaa aacgcaaaaa
661 attaagttgg tttatagggt ttgcgtgtaa tatcttttta ttaattgtga gtttttataa
721 gttatatgaa aatcttcaaa gactatcaaa aattcactcc ttatggtttg gattttaaac
781 tttatagtaa agatfttttg ctaaacttga ttttaaatga aaagcttata atgtgcttta
841 taatacagga gtttaaatgg gagatgggat tacgctttct acttcttttag gtttggtagg
901 atttattfff gcttttacta atataaaatt ttatcttacc actttaagtg ttcttattgt
961 cttttctatt ttaaattatt ggatcaagat taatataaaa gaatttgtaa aatcttattt
1021 ttcaatatat tttattatct tttttacagc tattgttatc atattttatc ttacctatgg
1081 tattgaaact tctagggatc ttgcattgct tagctctcta gaagctaaag aattgtcacc
1141 acaagaatat aaagcgtata attatftttgg atftttgact tgtatgacta tgtftttttt
1201 agtaatcaca tttattatac tcccttgttt attgcaagct tatttattta aatgtttatag
1261 cacagaagaa aaacgcaaaa aattaagttg gtttataggg tttttatgca atattattat
1321 attaattgca agtgtgtatt tgatgtatat atttatttaa agactaccaa aaattcactc
1381 cttatggttt ggatttttaa ctttatagta aagattttat cactaagctt gattttaaag
1441 ataaagctta taatgtgctt tataatacag gagtttaaat gggagaagat attacatttt
1501 ctatfttttg gggtttattt ggatttattt ttgcttttac taatataaaa ttttatctta
1561 ccactttaag tgttcttatt gtcttttcta tttta

```

//

```

LOCUS      CIKGLNE_6              718 bp    DNA      linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .

```

SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..718
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene 208..714
 /locus_tag="CIKGKLE_00025"
 CDS 208..714
 /locus_tag="CIKGKLE_00025"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:CKG86719.1"
 /codon_start=1
 /transl_table=11
 /product="hypothetical protein"
 /protein_id="Prokka:CIKGKLE_00025"
 /translation="MGEDITLSIFWGLVGFIFRLVTIDTILYITALSVLIVFSIINYW
 IKINIKFVKSIFLVYFIIFFTAIIIIIFYLSYDLETSRGYVMLGPPEIEELSPQEYKV
 HGYFGFLFFTSIGFCTITFFILPCLLQAYLFKCYSTGEKRKLSWFIGVFCNPILITS
 MYVIYENL"

ORIGIN

```

1 aacgcaaaaa   attaagttgg   tttatagggt   ttttatgcaa   tattattata   ttaattgcaa
61 gtgcatat    gatgtatata   tttatntaaa   gactatcaaa   aattcactcc   ttatggtttg
121 gatttagac   tttatagtaa   agatnttatc   actaaacttg   atntntaaaga   taaagcttat
181 aatgtgcttt   atgatacagg   agntntaaatg   ggagaagata   ttacactttc   tattnttttg
241 ggtttgtag   gatttatntt   taggcttggt   actattgata   caatactntta   tattacagcc
301 ttaagcgctt   ttattgtctt   ttctattata   aattattgga   ttaaaattaa   tataaaagaa
361 tttgtaaagt   cttatntntt   agtatatntt   attatctntt   ttacagctat   tattatcata
421 tnttatctta   gctatgatct   tgaaacttct   agaggatatg   taatgctcgg   tcctccagaa
481 attgaagaat   tatcaccaca   agagtataaa   gtacatgggt   atttcggatt   tntatntntt
541 acaagtattg   gctnttgtac   aatcacatnt   tnttacttct   cttgntntatt   acaagcttat
601 ttatntaaat   gnttatgcac   aggagaaaaa   cgcaaaaaat   taagtntggt   tatagggntt
661 gtgtgtaatc   ctatattaat   tacaagtatg   tatgtgatat   atgaaaatct   ttaaagac

```

//

LOCUS CIKGKLE_7 649 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..649
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene 253..384

```

CDS
    /locus_tag="CIKGLNE_00026"
    253..384
    /locus_tag="CIKGLNE_00026"
    /inference="ab initio prediction:Prodigal:002006"
    /inference="similar to AA sequence:RefSeq:CKG86746.1"
    /codon_start=1
    /transl_table=11
    /product="hypothetical protein"
    /protein_id="Prokka:CIKGLNE_00026"
    /translation="MKIFKDYQKFTPYGLDFKLYSKDFITKLDKDKAYNVLYNTGV"

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ORIGIN

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1 ctgcgaaatt cacttctctt tttttagagg ttaagcaatt accatctgaa gaatacctag
61 ttttagctg tcttgcatc ttatttatca taactatgga attttttata atcacattct
121 ttatacttcc ttgtttatta caagcttatt tttttaaatg ctatagcaca ggagaaaaaac
181 gcaaaaaaatt aagttggttt atagggtttg cgtgtaatat ctttttatta attgtgagtt
241 tttataagtt atatgaaaat ctttaaagac tatcaaaaat tcactcctta tggtttggat
301 tttaaacttt atagtaaaga ttttatcacc aagcttgatt ttaaagataa agcttataat
361 gtgctttata atacaggagt ttaaatggga gatagcatta cactttctat tttttggggt
421 ttgattttgt ttattgctag ttttactggt gcaagaattt atcttatagc tctaagcggt
481 cttattgtct tttctatfff aaattattgg atcaagatta atataaaaga atttgtaaaa
541 tcttattfff taatatcttt tattatcttt tttacagcta ttgttatcgt attttatctt
601 acttatgatc ttgaaacttc tagagggctt gtattacttg gtcctccag

```

//

LOCUS CIKGLNE_8 598 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..598

/organism="Campylobacter species"

/mol_type="genomic DNA"

/strain="strain"

gene complement(10..453)

/locus_tag="CIKGLNE_00027"

CDS complement(10..453)

/locus_tag="CIKGLNE_00027"

/inference="ab initio prediction:Prodigal:002006"

/codon_start=1

/transl_table=11

/product="hypothetical protein"

/protein_id="Prokka:CIKGLNE_00027"

/translation="MHEWILCGEEVKYLEEALKLGANPNMRRIKTENKFSFSGAGETL

LHRAARSKEKPIGACVEVLIKYGADVNAVNCGICDIEDGKIEYDPATPLDEANTYDI

NKNIKILKKAGAKTWEELVEEYNIDTSLEEPEQIKMYEERRKDKK"

ORIGIN

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1 tttttccttt tttttttat cttttcttct ttcttcatac attttaattt gttctggttc
61 ttctaagctt gtatcgatat tgtattcttc aaccaattct tccaagtct tagctcctgc
121 tttttttaag atttttatat ttttatttat atcgtaagta ttagcttcat ccaatggagt

```

```

181 agcaggatca taatattcaa ttttcccatc ttcaatatca catataccac aattaactgc
241 atttaccatca gctccatatt tgattagcac ttccacgcaa gctcctatag gcttttcttt
301 acttcttgca gctctatgca aaagggtttc tcctgcacca ctaaagctaa atttattttc
361 tgttttaatt cttctcatat taggatttgc tcctaatttt aaagcttctt ctaaatactt
421 cacttcttcg ccacatagta tccattcatg caaaggagtg ctgccacttt tttcattata
481 agtttcaaat gtgcatcctt ttttaaaaaa atactctatt acttctttat tttttccatc
541 tctatcgata tatctactga gtgcattgta tccaaagtgt acttcatcag ctttaagt

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//

>>BfR-CA-15866_min_cov_30 putative plasmid location

```

LOCUS      HHHABCBJ_1                1844 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
  source   1..1844
            /organism="Campylobacter species"
            /mol_type="genomic DNA"
            /strain="strain"
  gene     1..468
            /gene="trxB_1"
            /locus_tag="HHHABCBJ_00001"
  CDS      1..468
            /gene="trxB_1"
            /locus_tag="HHHABCBJ_00001"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG87041.1"
            /codon_start=1
            /transl_table=11
            /product="thioredoxin reductase"
            /protein_id="Prokka:HHHABCBJ_00001"
            /translation="MDWVIDLTEYEFADDADGKAIRSLDDDLVKGKLDPRDIDSTPE
SRREFNREMWAYRRGSVAFYNTDIPNDWTNQEAKLYIDSLILESKLAVLTPPQGYRNA
PYYWVPEHLEYVYKHKLDKLLDPRIPAIYRYNFPRELRAKILKFAEENGIKD"
  gene     550..1827
            /gene="trxB_2"
            /locus_tag="HHHABCBJ_00002"
  CDS      550..1827
            /gene="trxB_2"
            /locus_tag="HHHABCBJ_00002"
            /inference="ab initio prediction:Prodigal:002006"
            /inference="similar to AA sequence:RefSeq:CKG86610.1"
            /codon_start=1
            /transl_table=11
            /product="thioredoxin reductase"
            /protein_id="Prokka:HHHABCBJ_00002"
            /translation="MSDTYEIYTPHGSILDVNKKTNEIYFDQSSKPTGKYTKEYSKAL

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FKAWEIMENSPYKDYEPRYLDPNFYTGQKSTLVEFKEWQSIYLDPIKGSIAPWTKAE
KAYYKSLKTKRERYKYL VIRSGIRSTVIDIPYDAYANVDEKGNLINEDYKELYKEVEA
NRGLAHLSDGYLFMGEWELAAGILGDIKGFIGALQLSMTGFKARTQAVNLLIQLGHE
QGFKSLYDSYAYRGLTDGIHKNPLKAQMLKDFSKNPPYDEFGLPFLDELGMVDWVID
LTEYEFADDADGKAIRSLDDDLKGLKLDPRIDSTPESRREFNREMWAYRRGSVAFY
NTDIPNDWTNQEAKLYIDSLILESKLAVLTPPQGYPNAPYYWVPEHLEYVYKHKHLDK
LLDPRIPAIYRYNFPRELRAKILKFAEENGIKD"

ORIGIN

1 gtggattggg tgattgattt aacagaatat gaatttgcag atgatgctga tggtaaagct
61 attagatcct tagatgatga tgttttaaaa ggtaaattaa aagatccaag agatatagac
121 tctactccag agagtagaag agagtttaat cgtgaaatgt gggcatatcg tagaggttct
181 gttgcatttt acaatacggg tattccaat gattggacta atcaagaagc gaaactatat
241 atagattctc ttattttaga atctaaacta gcagtcctaa ctcctccaca aggctatcct
301 aatgcacctt attattgggt tccagaacat ttagaatatg tttacaaaaa acataagctt
361 gataaactcc ttgatccaag aatccctgct atttatagat ataatttccc aagagaactt
421 agagctaaga tactcaaatt tgctgaagaa aatggcatta aagattaaag taattgcata
481 ggcagactag ccactactat cattatgaaa aatggtttgc atataggtta aataaagaaa
541 ggataaaaga tgagtgatac ttatgagatt tatacaccac atggttccat attagatggt
601 aataaaaaaa ctaatgaaat atattttgat caaagttcca aaccacaggg aaaatatacc
661 aaagaatatt ccaaagccct cttcaaagct tgggaaatca tggaaaactc cccctacaaa
721 gattatgaac caagatattt agatcctaac ttttatacag ggcaaaaatc cactctagta
781 gaatttaaag aatggcaaag catatattta aaagatccta tcaaaggaag catagctcct
841 tggactaaag cagaaaaagc ttattataaa tctttaaaaa ctaaaagaga aagatataaa
901 tatctagtga ttagaagtgg tataagaagc actgttatag atatacccta tgatgcttat
961 gctaatgtag atgaaaaagg aaatttaatc aatgaagatt ataaagaact ttacaaagaa
1021 gtagaagcta atagaggctt agctcattta agtgatggat atttatttat ggggtgaatgg
1081 gaattagcag cagggatact aggagatata aaaggattta taggagcctt acaactttct
1141 atgacaggat ttaaagcaag aaccaagca gtaaattttt tactcataca actaggacat
1201 gaacaagggt ttaaaagtct ttatgattct tatgcatata gaggtttaac agatggtata
1261 cataaaaacc ctcttaaagc tcaaagtcta aaagactttt ctaaaaatcc tccttatgat
1321 gaatttggaa tgctaccttt cttagatgag cttatggggg tggattgggt gattgattta
1381 acagaatatg aatttgcaga tgatgctgat ggtaaagcta ttagatcttt agatgatgat
1441 gttttaaaag gtaaattaaa agatccaaga gatatagact ctactccaga gagtagaaga
1501 gagtttaatc gtgaaatgtg ggcatatcgt agaggttctg ttgcatttta caatacggat
1561 attcccaatg attggactaa tcaagaagcg aaactatata tagattctct tattttagaa
1621 tctaaactag cagtcttaac tcctccacaa ggctatccta atgcacctta ttattgggtt
1681 ccagaacatt tagaatatgt ttacaaaaaa cataagcttg ataaactcct tgatccaaga
1741 atccctgcta tttatagata taatttcca agagaactta gagctaagat actcaaattt
1801 gctgaagaaa atggcattaa agattaaagt aattgcatag gcag

//

LOCUS HHHABCBJ_2 1739 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers
source 1..1739
/organism="Campylobacter species"
/mol_type="genomic DNA"


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gene      /strain="strain"
          complement(703..1482)
          /gene="trxB_3"
          /locus_tag="HHHABCBJ_00003"
CDS       complement(703..1482)
          /gene="trxB_3"
          /locus_tag="HHHABCBJ_00003"
          /inference="ab initio prediction:Prodigal:002006"
          /inference="similar to AA sequence:RefSeq:CKG86610.1"
          /codon_start=1
          /transl_table=11
          /product="thioredoxin reductase"
          /protein_id="Prokka:HHHABCBJ_00003"
          /translation="MHKGWLFMAEWELAAGILGDIKGFIFALQLSMTGFKARTQAVNF
LLIQLGHEQGFKSLYDSYAYRGLTDGIHKNSLKAQMLKDFSKNPPYDEFGLPFLDEL
IGVDWVIDLNEYDFAYDEAGSIIRALDDDVLKGLKDPDRIDSTPESRLEFEYKRDAY
KNGMLNGYGDNIPSDWTQKEVKLWLDLTLVLQAKLAVLTPPQGYPNAPYYFSPERLEWD
YKNHQLDKLLDPRIPAIYRYNFPRELRAKILKFGEENGIKD"

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ORIGIN

```

1  tgcttgagtt  cttgctttaa  atcctgtcat  ggaaagttgt  aaggctccta  taaatccttt
61  tatactcct  agtattcctg  ctgctaattc  ccattcacc  ataaataaat  atccatcact
121  taaatgagct  aagcctctat  tagcttctac  ttctttgtaa  agttctttat  agtctttatt
181  gattaaattt  cttttttcat  ctacattaca  ataagcatca  taaggtatat  ctataaccac
241  agatcttaat  ccacttctta  taattaaata  tttatatctt  tctcttttag  tttttaaaga
301  tttataataa  gctttttctg  ctttagtcca  aggagctata  gctcctttga  taggatcttt
361  taaatatatg  ctttgccatt  ctttaaattc  aagcaaagtg  gatttttgcc  ctgtataaaa
421  gttaggatct  agatatattg  gttgatagtc  tttgtatggg  gagttttggt  taatttccca
481  agccttaaaa  aaaactctag  tatattcttt  agtatattta  cctacaggat  caacgctttg
541  tgcaaaatat  atttcttttg  tttttttatc  tacctctact  cctaattccat  taggagcata
601  tatcatataa  gtatcactca  tcttttatcc  tttcttaatt  taacctatat  ataaaccatc
661  ttctatgatt  atagtagtgg  ctagtctgcc  tatgcaatta  ctttaattct  taatgccatt
721  ttcttcacca  aatttgagta  tcttagctct  aagttccctt  gggaaattat  atctataaat
781  agcagggatt  cttggatcaa  ggagtttgtc  taattgatga  tttttataat  cccattccag
841  ctttctggg  ctaaaataat  aaggtgcatt  aggatagcct  tgtggaggag  ttaagaccgc
901  tagtttggct  tgtaaaacta  aagtatctag  ccataatttt  acttcttttt  gcgtccaatc
961  actaggaata  ttatcaccat  agccatttaa  catcccattt  ttataagcat  ctcttttgta
1021  ttcaaattcc  aatctactct  ctggagtaga  gtctatatct  cttggatctt  ttaatttacc
1081  ttttaaaaca  tcatcatcta  aagcccta  aatgctacct  gcttcatcat  aagcaaatc
1141  atattcattc  aatcaatca  cccaatccac  tcctataagc  tcatctaaga  aaggtagcat
1201  tccaaattca  tcataaggag  gattttttaga  aaagtctttt  agcatttgag  ctttaagaga
1261  gtttttgtgt  atgccatctg  ttaaacctct  atatgcataa  gaatcataaa  gacttttaaa
1321  gccttgttca  tgccttagtt  gtatgagtaa  aaaatttact  gcttgagttc  ttgctttaaa
1381  tcctgcatata  gaaagttgta  aggctcctat  aaatcctttt  atatctccta  gtattcctgc
1441  tgctaattcc  cattcagcca  taaagagcca  acctttatgc  atattagcca  tacctctatt
1501  agcttctact  tctttataga  gttctttata  gtctttattg  attaaatttc  cttttctatc
1561  tacattacaa  taagcatcat  aaggtatata  tataacagta  cttctaagtc  cacttcttat
1621  aattaaatat  ttatatcttt  ctcttttggt  ttttaaagat  ttataataag  ctttttctgc
1681  ttttagtcaa  ggagctatag  ctctttgat  aggatctttt  aaatatatgc  tttgccatt

```

//

```

LOCUS      HHHABCBJ_3          1177 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .

```

SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
 source 1..1177
 /organism="Campylobacter species"
 /mol_type="genomic DNA"
 /strain="strain"
 gene 74..571
 /gene="trxB_4"
 /locus_tag="HHHABCBJ_00004"
 CDS 74..571
 /gene="trxB_4"
 /locus_tag="HHHABCBJ_00004"
 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:CKG86610.1"
 /codon_start=1
 /transl_table=11
 /product="thioredoxin reductase"
 /protein_id="Prokka:HHHABCBJ_00004"
 /translation="MLPFIDEIMGVDWVIDLNKYDFAYDEEGRIIWALYNDIKKGLK
 DPRDVDSTPESRNEFDDAMDGYENGMVTRFDVDTPNWSEQQAALDRDTLVLSAKLAA
 LTPPQGYPNAPYYFTPERLEWIYKRGYLDKLLDPRIPIAIYRYNFPRELRAKILKFAEE
 NGIKD"

ORIGIN
 1 gatacataaa aatcctttaa gggctaaatt agtaaaagat ttagctaaaa ctatacagcc
 61 tgatgaattt ggtatgctac cttttataga tgagattatg ggagtagatt ggggtgattga
 121 tttaaataaa tatgattttg cctatgatga agaaggtaga atcatttggg ctttatataa
 181 tgatattaaa aaaggtaaat taaaagatcc aagagatgtg gattctactc ctgaaagtag
 241 aatgaattt gatgatgcta tggatggata cgaaaatgga atggtaacta gatttgatgt
 301 agatactcca aatgaatgga gtgaacaaca agctgcttta gatagagata ccctagtatt
 361 aagtccaaa ctgcagccc tcactcctcc acaaggctat cctaattgcc cttattattt
 421 tacacctgaa agattggaat ggatttataa aagaggatat ttagataaac tccttgatcc
 481 aagaattcct gctatttata gatataattt cccaagggaa cttagagcta agatactaaa
 541 atttgctgaa gaaaatggca ttaaagatta aagtaatttc ataggtagac tagccactac
 601 tataatcata gaagatggtt tatatatggg ttaaattaag aaaggataaa aatgagttaa
 661 acttataaaa tttatacacc caatggatta gcattagatg tggaaaaaga taccaataaa
 721 atactattta aagaaaatat taaaccaca ggcaattata ccgaagaata ttccaaagct
 781 ttgtttgaag cacacgacat taaacgaac tccccctaca aagactataa accaatatat
 841 ctagatccta acttttatac agggcaaaaa tccactctag tagaatttaa agaatggcaa
 901 agcatatatt taaaagatcc cattaaggga agcatagctc cttggactaa agcagaaaaa
 961 gcttattata aatctttaa aactaaaaga gaaagatata aatatctaata tataagaagt
 1021 ggtataagaa gcactgttat agatatacct tatgatgctt attgtaatgt agatgaaaaa
 1081 ggatatttaa tcaatgaaga atacgcctat atttatgatg aagttaacaa taataaagaa
 1141 accctaaaat cttctctttt tagacaagaa tggggta

//
 LOCUS HHHABCBJ_4 1010 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1010
/organism="Campylobacter species"
/mol_type="genomic DNA"
/strain="strain"

gene complement(440..937)
/gene="trxB_5"
/locus_tag="HHHABCBJ_00005"

CDS complement(440..937)
/gene="trxB_5"
/locus_tag="HHHABCBJ_00005"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG86610.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:HHHABCBJ_00005"
/translation="MLPFIDEIMGVDWVIDLNQYQFAYDGKGDSTWALYDDIEKGLK
DPRDVDSTPESRKEFDEETDVYRFGNRMNFASDIRDSRSEESTRLFDDTLILHAKLAA
LTPPQGYPNAPYYFTPERLEWIYKRGYLDKLLDPRIPIAIYRYNFPRELRAKILKFAEE
NGIKD"

ORIGIN

```

1 ctagatattt atatctttct cttttggttt ttaaagattt ataataagct ttttctgctt
61 tagtccaagg agctatgctt cctttaatgg gatcttttaa atatatgctt tgccattcct
121 taaattctac tagagtggat ttttgccctg tataaaagtt aggatctaga tatattgggt
181 tatagtcttt gtagggggag tttttcataa tataataaga ttcaaaaacc gctttggaat
241 attcttcggt ataattgcct gtgggtttta tttttcttt aaatagtatt ttattgggat
301 ctttttccac atctaattgt aaccattgg gtgtataaat ctcataagtt tcgctcatta
361 tttatccttt ctttaattta cccatatata aaccatcttc tatgattata gtagtggcta
421 gtctacctat gcaattactt taatctttta tgccattttc ttcagcaaat ttgagtatct
481 tagctctaag ttcccttggg aaattatata tataaatagc agggattctt ggatcaagga
541 gtttatctaa atatcctctt ttataaatcc attccaatct ttcaggtgta aaataataag
601 gggcattagg atagccttgt ggaggagtga gggctgagag tttggcatga agtattaaag
661 tatcatcaa taatctagtt gattcttcac ttctactatc acgaatatca gaggcaaaat
721 tcattctggt accaaatcta taaacgtcag tttcttcac aaattctttc ctgctttcag
781 gagtagaatc cacatctctt ggatctttta atttaccttt ttcaatatca tcatataaag
841 cccaagtaga atcaccttta cgtcatagc caaattgata ctgatttaaa tcaatcacc
901 aatctactcc cataatctca tctataaaag gtagcatacc aaattcatca ggctgtatag
961 ttttagctaa atcttttact aatttagccc ttaaaggatt tttatgtatc

```

//

LOCUS HHHABCBJ_5 997 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.


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        /mol_type="genomic DNA"
        /strain="strain"
gene    complement(393..890)
        /gene="trxB_7"
        /locus_tag="HHHABCBJ_00007"
CDS     complement(393..890)
        /gene="trxB_7"
        /locus_tag="HHHABCBJ_00007"
        /inference="ab initio prediction:Prodigal:002006"
        /inference="similar to AA sequence:RefSeq:CKG86288.1"
        /codon_start=1
        /transl_table=11
        /product="thioredoxin reductase"
        /protein_id="Prokka:HHHABCBJ_00007"
        /translation="MLPFLDELIGVDWVIDLNEYQFAYDGDGGSVKALDEKVRQGKLLK
DPRDIDSTPESRKEFDEEANAYTFGNRMNFSSDIRDSRSKESARLFDDLLILHAKLAA
LTPPQGYPNAPYYFSPEQLEDFYKRQVLDAKLDPRIPIAIRYNFPRELRAKILKFGEEN
NGIKD"

```

ORIGIN

```

1 taataagctt tttctgcttt agtccaagga gctatacttc ctttgatagg ttcttttaaa
61 tatatacttt gccaatcttt aaattctact agagtggatt tttgccctgt ataaaagtta
121 ggatctagat atattgggtg atagtctttg tatggggagt ttcttaatat gcgatcacc
181 tcgaagagag cttgagaatg ttgttttagtg tatgtaccat tgctttttgc cgtaaataat
241 attttatttg tatctttttc tacatttaat attgagccat ctggtgtata aatctcataa
301 gtatcactca ttttttatcc tttctttatt taacctatat gcaaaccatt tttcataatg
361 atagtagtag ctagtctgcc tatgaaatta ctttaatctt taatgccatt ttcttcgcca
421 aattttagta tcttagctct aagttccctt gggaaattat atctataaat agcagggatt
481 cttggatcaa gtttagcgtc taaaacttgt cttttgtaa aatcttctaa ttgttcagga
541 ctaaaataat aaggtgcatt aggataacct tgaggaggag tgagggctgc gagtttgga
601 tgaagtatca aaaggtcatc aaataatcta gccgattctt tacttctact atcgcgaata
661 tcagaggaaa aattcattct attaccaaaa gtataagcat tagcttcttc atcgaattct
721 ttcttgctct ctggagtaga gtctatatct cttggatctt ttaatttacc ttgtcttact
781 ttctcatcta aagccttaac actaccgcca tcaccatcat aagcaaattg atattcattc
841 aatcaatca cccaatccac tcctataagt tcatctagaa aaggtagcat ac

```

//

LOCUS HHHABCBJ_7 849 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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source    1..849
           /organism="Campylobacter species"
           /mol_type="genomic DNA"
           /strain="strain"
gene      114..656
           /gene="trxB_8"
           /locus_tag="HHHABCBJ_00008"
CDS       114..656

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```

/gene="trxB_8"
/locus_tag="HHHABCBJ_00008"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG87041.1"
/codon_start=1
/transl_table=11
/product="thioredoxin reductase"
/protein_id="Prokka:HHHABCBJ_00008"
/translation="MLKDFAKNPPYDEFGMLPFLDELIGVDWIDPNRYRFAEDEKGR
VNDALKDDVEKGILKDPDIDSTSESRLEFEYKLDAYRNGMKTRFDGDNPNHWSKEQV
ERFNDTLILCAKLAALTPPQGYPNAPYYYSERLEFIYKHKHKLKDKPRIPAIYRYN
FPRELRAKILKFGEENGIKD"

```

ORIGIN

```

1 taaatTTTTT actcatacaa ctaggacatg aacaaggctt taaaagtctt tatgattcct
61 atgcatatag agatttaaca gatggcatac acaaaaactc tcttaaagct caaatgctaa
121 aagactttgc taaaaatcct ccttatgatg aatttggtat gctacctttt ctagatgaac
181 ttataggagt ggattgggtg atagatccaa ataggatcgc atttgcagaa gacgaaaaag
241 gaagagttaa tgatgctcta aaagatgatg ttgaaaaagg aatactcaaa gatccaagag
301 atatagattc tacttcagag agtagattgg aatttgaata taaattggat gcttatagaa
361 atggaatgaa aactagattt gatggagata atccaaatca ttggagtaaa gagcaagtag
421 aaagatttaa tgatactttg attttatgtg ccaaactcgc agccctcact cctcctcaag
481 gctatcctaa tgcaccttat tattactctc ctgaaagatt agaatttatt tacaaaaaac
541 acaaacttga taaattaaaa gatccaagaa tccctgctat ttatagatat aatttcccaa
601 gggaacttag agctaagata ctcaaatttg gcgaagaaaa tggcattaaa gattaaagta
661 attgcatagg cagactagct accactataa tcatgaaaaa tggtttatat ataggttaaa
721 ttaagaaagg ataaaagatg agtgatactt atgagattta tacaccacat ggttccatat
781 tagatgtaa taaaaaaact aatgaaatat attttgatca aagttccaaa cccacaggaa
841 aatatacca

```

//

>>BfR-CA-15867_min_cov_30 putative plasmid location

```

LOCUS      NLMJPNJI_1          24409 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS
SOURCE     Campylobacter species
ORGANISM   Campylobacter species
           Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
           https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
           source          1..24409
           /organism="Campylobacter species"
           /mol_type="genomic DNA"
           /strain="strain"
           gene           159..1055
           /locus_tag="NLMJPNJI_00001"
           CDS            159..1055
           /locus_tag="NLMJPNJI_00001"
           /inference="ab initio prediction:Prodigal:002006"
           /inference="similar to AA sequence:RefSeq:AAW35468.1"

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/note="conserved domain protein"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:NLMJPNJI_00001"
/translation="MIVSFLDDDDIDKPYVSSSLYNGTNPVSLVNLFPNDHQTSLSKTI
GVNEEGYNELTSLNIKDKEQIYLKAQKDYDELVQHNFTQRILNDKDSKVDGIYNERIK
KVHTQTIDLAKNVVGAEYLINVGLSKDTIVGLSNTLVNGVDNKVRIAKNSHEFVGEN
KDIEIGANQNTIIHKDEIRNVKGNKKEVVEGHYDINIKETLKIQTEKETSIRSKNNLL
ITTNASMGFETDKNNTFVSDNSLSQTKTDYEVKAGNQILHQVGDQIVTKKDCVIIKA
GGVEVIIDSNGLVVKGGELKAE"
gene 1055..3046
/locus_tag="NLMJPNJI_00002"
CDS 1055..3046
/locus_tag="NLMJPNJI_00002"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG88019.1"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:NLMJPNJI_00002"
/translation="MEALNQKNSLNIRLLSSNNILLHNQEFKLYEIAQGNKNEIKTIF
TTNRIGEHLNASEIFSKEAQSFELILNQSSVYKNKPIYNHRFLLRNYEYGHWCIEKF
ERKADKGSINSIRLKSKEFTLENNEKIVRNFYTFGDIVEFEAIYEDTKIKKEEQIKWGY
VFIQDKNTLDKLNKNQLTNDKKESLLDEEILKDCFYIEKEEDKALLSSSIIYRHLN
NKAYCGKHLSQLPNPKDTQEQKALLVFAYKEIPNYNASYLIRINDYPQITIDCTLAE
TLRAHTNKDEISRLGWGVSYICQRLWHDNPSDAKELKDLTFRSSTSQDFIDTIPNETM
KTIVKEILPRVEMQQLKTDNTKSRDKARFYAELDWDNFYMKFSIMQELKGEYMNLLKLL
FGEESDFQKFEDFLNDTLIDIKNIKNTQEYTMALNIQAMKENKTKNAEVFKLYKKEE
TLPETHKAIKDLQKPSDIIDNSLYQRFDIKNDVFLPHLGLSKFADFSLQNSIQHEKE
VLDKFHSNPKYQNFALYSIAGAFNILYIPSLIQITRVTRFYNYHSLYAACKKVRAFI
IDTVNFNNNGSDQPIGAWDYEKVGFDLYNSIMQYRNTKFHFKYTSPKSFLFPLYNSDF
LTKQYFNLGLDFFLYSSTFLDMDFSHMQMQDTAFIVGK"
gene 3048..3659
/locus_tag="NLMJPNJI_00003"
CDS 3048..3659
/locus_tag="NLMJPNJI_00003"
/inference="ab initio prediction:Prodigal:002006"
/inference="similar to AA sequence:RefSeq:CKG88032.1"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="Prokka:NLMJPNJI_00003"
/translation="MFFAGGDYEPFIYGLSLIAYYFLPLYCLTLLLYKYKPQYVNLAL
HIGASVLLYLAMWVIFVDTTIISLFEIFQMFLIPIILQIIHLTFILYAIITYYFDMQK
ISFTKRLGRYIVSFFIGIGLLILSFVMMYAIGYYISSWCDRYLLKIDERNEAIRTITF
YVLVVVFPSSIALLLSYILYKNHKSFFTKILYRILSMIGKDKP"
gene 3659..3820
/locus_tag="NLMJPNJI_00004"
CDS 3659..3820
/locus_tag="NLMJPNJI_00004"
/inference="ab initio prediction:Prodigal:002006"
/codon_start=1
/transl_table=11

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        /product="hypothetical protein"
        /protein_id="Prokka:NLMJPNJI_00004"
        /translation="MQKLIYQNHQYQQIQIQQTQKHFNLGCDFRILTSTFKDIEVCSF
        SMPISIKVD"
gene      4062..4301
        /locus_tag="NLMJPNJI_00005"
CDS      4062..4301
        /locus_tag="NLMJPNJI_00005"
        /inference="ab initio prediction:Prodigal:002006"
        /codon_start=1
        /transl_table=11
        /product="hypothetical protein"
        /protein_id="Prokka:NLMJPNJI_00005"
        /translation="MDSVSIVFLGAMIFNIYSTIYLLLFKFLSNNNQNIFFPSKKEKYC
        LFGLNLLFSLLFYAIWFAAFEYDLADKVVKFFNGV"
gene      4304..4561
        /locus_tag="NLMJPNJI_00006"
CDS      4304..4561
        /locus_tag="NLMJPNJI_00006"
        /inference="ab initio prediction:Prodigal:002006"
        /codon_start=1
        /transl_table=11
        /product="hypothetical protein"
        /protein_id="Prokka:NLMJPNJI_00006"
        /translation="MNGAKLLDNIKPSDLKRSQMIFYGIANKEFGIEYKLSKERSNQ
        VIALYALSGKFQIYYVLDSFEVERMNEKEIUIYPTQIESWY"
gene      4710..5153
        /locus_tag="NLMJPNJI_00007"
CDS      4710..5153
        /locus_tag="NLMJPNJI_00007"
        /inference="ab initio prediction:Prodigal:002006"
        /inference="similar to AA sequence:RefSeq:CKG88076.1"
        /codon_start=1
        /transl_table=11
        /product="hypothetical protein"
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gene 14059..14592
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gene 16632..16802
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gene complement(21738..22559)
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        /note="tRNA-Val(tac)"
gene      complement(24117..24192)
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        /product="tRNA-Glu"
        /inference="COORDINATES:profile:Aragorn:001002"
        /note="tRNA-Glu(ctc)"
gene      complement(24206..24281)
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        /note="tRNA-Lys(ttt)"
gene      complement(24285..24361)
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DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES

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DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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4981 ttgcctttta ctatgatttt ttagattagt taccatctct gcataaagcc ataaagggtgc
5041 aagggttgaa ttctcatcat tctcattcat taaatcaagc attgtataac tagcatctgc
5101 tatattagca tagtcaaaaa aatttagtga ttaagtctaa tttagcttct tgtgttttaa
5161 tgtttttgct catttgttat tccaaagctt caacttgcca atcatctttc ttaaattttt
5221 tgtcaatatt cttacaactt aatacttcca tatatctaaa atataatcca gcgcccctcat
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5341 acttgggtttt tcattttttc tttcaaactc agtttccact atcctatctt ttatttgctt
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5581 ttttttaaat atttttttta aaatttatag tttttgtttt attttttatt ttaaaaaaga
5641 ttttaaagat aaaatataaa ataatagaaa atataaaaaac gaaaaaagaa aaatataaaa
5701 gattaataaaa gaattctagt gtctattaat tcctcttaat tctctctatt ttttcataag
5761 acaaagtagc actaaagcca cttgtagtgt tggactgatg aaatttaatc tcatatcttt
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5881 aagaatcatc tataacccaa tatccattat attcatcatg taatgcttta aaatagtcca
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6001 cttttgtcc ttcagtataa acaaaattaa aataactagc ttgcataaat tctgtataat
6061 cttttaaatt gttgatttgt tctttattgg tcattattta ttccttatat tattattgat
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6181 cttctaacac ataccttcta gtattccaat atggacttat atacatatca acaatcttgt
6241 gtaaagacat ttgcatatth tttgttttta gtgcaatatt atccatctct atcttttctt
6301 gaaaatttga aggagttttg taagtatcat cgtaatatat ataaagccac atttctatac
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LOCUS      NLMJPNJI_5                2833 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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            /codon_start=1

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SPYHYEYNTLYRQIVNFKQKKEN"
gene 560..712
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CDS 560..712
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/inference="ab initio prediction:Prodigal:002006"
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KNTIYK"
gene 765..1262
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CDS 765..1262
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IKEFVKSYFLISFIIFFTAIVIVFYLT YDLETSRGLVLLGPPEVEKLS PQEYKAHNYF
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gene 1249..1380
/locus_tag="NLMJPNJI_00065"
CDS 1249..1380
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/protein_id="Prokka:NLMJPNJI_00065"
/translation="MKIFKDYQKFTPYGLDFKLYSKDFIAKLDFKDKAYNVLYDTGV"
gene 1381..1875
/locus_tag="NLMJPNJI_00066"
CDS 1381..1875
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YAMY"

ORIGIN

1 atattatatt gactttttatt ctaggtttga ttgtatttgt ttcagtaaaa ggttgttttt
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361 attctaaaaa atatataaga tgtgagcctt tgctttatgg taaaacttgg aaagaaaatg
421 ctaagataat ggaacaaaag gcatttgata ataaagaata tataggcaca gaagaatatt
481 tacgatattc accttatcat tatgagtata atacacttta tcgccaataa gttaatttca
541 aacaaaagaa agagaattaa tgatatataa ttacaaatac tctcttgtaa tctatgttaa
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661 agagcaagtg cattgtggcg atatgcaaat aaaaaacaca atatataaat aaacttgatt
721 ttaaagataa agcttataat gtgctttata atataggagt ttaaattgga gatagtatta
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1321 attgccaaac ttgattttta agataaagct tataatgtgc tttatgatac aggagttaa
1381 atgggagata gtattgcact ttctattttt tgggggttga taggatttat tcttacttgt
1441 agtgttatag aattttatct tatagctcta agcgttctta ttgtcttttc tattttaaat
1501 tattggatca agattaatat aaaagaattt gtaaaatctt attttttaat atcttttatt
1561 atctttttta cagctattgt tatcatattt tatcttactt atgatcttga aacttctaga
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1681 cataattatt ttggattttt aagtgggata actattattt ttttagtaat cacatttatt
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1801 aaaaaattaa gttggtttat aggatttgtg tgcaatatct ttttattaac ggcgagtgtg
1861 tatgcgatgt attaaaatct ttaaagactt ttaaaaaatt taatatattt gatataatat
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2101 ccaaaccact gctataaaca atctaggata tggcaatgat ttcacaaaaa tcttcatcct
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2221 caatacttta aaagaagaaa aaaatgaaaa aataaaaaat atccaagctt atgtaataa
2281 agaaaattcc ttgcaagaca atctaaataa tcaaagcttt aatactgagg aaaatgatct
2341 taatttagct ttaaacgaag tatttaatat agaacaattt tatgataaaa ataccaatac
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2521 tgagaatcat tgtgatattt ttacaaaaga tagaagtatc ttagatataa aatttataga
2581 agaaaaatat caaatagatt ttaaaagttt agatacaaaa atcttcctaa actccaccct
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2701 taatcttata aaacaagata taccagttta ttatttttct ctaaagatg aaagcagtgg
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2821 attagagaat tct

//

LOCUS

NLMJPNJI_6

1956 bp

DNA

linear

12-APR-2021

DEFINITION Campylobacter species strain strain.
 ACCESSION
 VERSION
 KEYWORDS .
 SOURCE Campylobacter species
 ORGANISM Campylobacter species
 Unclassified.
 COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.
 FEATURES Location/Qualifiers
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 /mol_type="genomic DNA"
 /strain="strain"
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 CDS 113..334
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 /inference="similar to AA sequence:RefSeq:CKG87598.1"
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 /transl_table=11
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 /protein_id="Prokka:NLMJPNJI_00067"
 /translation="MSDEWITEESRNLGIVDKKDREKIANLLKKNNSNEVRKDLFHVD
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 CDS 318..965
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 /inference="ab initio prediction:Prodigal:002006"
 /inference="similar to AA sequence:RefSeq:CKG87616.1"
 /note="Domain of uncharacterised function (DUF1910)"
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 gene 1162..1815
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ORIGIN

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LOCUS NLMJPNJI_7 1591 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species

Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

source 1..1591

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/mol_type="genomic DNA"

/strain="strain"

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CDS complement(267..824)
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gene complement(838..1413)
 /locus_tag="NLMJPNJI_00071"

CDS complement(838..1413)
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ORIGIN

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181 ctttttaggt atagcaaatt ctagccatga aaagccttgt gggttntttaa acccactaag
241 attaaattaa attataagga aagtatnttac gtaaagctaa tcctatntttg cttaatcatt
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421 gcattagtga taaaagaaat atatnttatct ctttgnttat cgtgntttgat acctgctcgc
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721 cacatagtaa gatgaaatnt tcctgaatgt ttataagaag gataccaatc tgtatcaatc
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1561 tttaggtata gcaaatatag gatagccttt t
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LOCUS      NLMJPNJI_8                1343 bp    DNA        linear      12-APR-2021
DEFINITION Campylobacter species strain strain.
ACCESSION
VERSION
KEYWORDS   .
SOURCE     Campylobacter species
  ORGANISM Campylobacter species
            Unclassified.
COMMENT    Annotated using prokka 1.14.6 from
            https://github.com/tseemann/prokka.
FEATURES   Location/Qualifiers
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ORIGIN
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LOCUS NLMJPNJI_9 519 bp DNA linear 12-APR-2021

DEFINITION Campylobacter species strain strain.

ACCESSION

VERSION

KEYWORDS .

SOURCE Campylobacter species

ORGANISM Campylobacter species
Unclassified.

COMMENT Annotated using prokka 1.14.6 from
<https://github.com/tseemann/prokka>.

FEATURES Location/Qualifiers

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>>BfR-CA-15875_min_cov_30 putative plasmid location

LOCUS JIMAIPOP_1 7184 bp DNA linear 12-APR-2021
 DEFINITION Campylobacter species strain strain.
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 VERSION
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 SOURCE Campylobacter species
 ORGANISM Campylobacter species
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<https://github.com/tseemann/prokka>.
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ORIGIN

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