piece 1, NC_000913, mdoC_mdoG+, config: linear, direction: +, begin: 1108135, end: 1108577

```
      *      *1108140   *      *1108150   *      *1108160   *      *1108170   *      *1108180   *      *1108190   *      *1108200   *      *1108210   *
5' atattcacgttgcgcgggtactgggttcatatatggttaactaatctcggatttttcgtcttatccctgtcgggttatgcc 3'
   - ile - phe - thr - leu - arg - gly - tyr - trp - val - his - ile - trp - leu - thr - asn - leu - gly - phe - phe - val - leu - ser - leu - ser - gly - tyr - ala -
     - tyr - ser - arg - cys - ala - gly - thr - gly - phe - ile - tyr - gly -         thr - asn - leu - gly - phe - phe - val - leu - ser - leu - ser - gly - tyr - ala -
     - tyr - his - val - ala - arg - val - leu - gly - ser - tyr - met - val -         asn -                                                                       -fMet - pro -
...---------------------------------------------------------------] NC_000913.mdoC
```

p35   2.8 bits   p10   3.9 bits

{<-------------------------->} p35-(22)-p10 1108167 Gap 2.3 bits
|------------------------------| p35-p10 1108167 total 4.4 bits

```
      *      *1108220   *      *1108230   *      *1108240   *      *1108250   *      *1108260   *      *1108270   *      *1108280   *      *1108290   *
5' tttaggcttgttgccatagtgacaccgacctgaccgcgccaggcgcaggcttcaaggtttttatgcatagcatcatcgcta 3'
   - phe - arg - leu - val - ala - ile - val - thr - pro - thr -
     - leu - gly - leu - leu - pro -                                                                              -fMet - his - ser - ile - ile - ala - thr -
     -                                                                                                                                         ir mdoC_mdoG+
```

sd

{<---------->} sd-(6)-ir 1108278 Gap 4.3 bits
|-----------| sd-ir 1108278 mdoC_mdoG+ total 5.9 bits

```
      *      *1108300   *      *1108310   *      *1108320   *      *1108330   *      *1108340   *      *1108350   *      *1108360   *      *1108370   *
5' ccactaaccagaatggaagcgtctgtaagacggttgataaataaatttgctggcaaaccctacacgaagtcgatgcttctg 3'
   -                               -fMet - glu - ala - ser - val - arg - arg - leu - ile - asn - lys -         gly - ala - gly - lys - pro - tyr - thr - lys - ser - met - leu - leu -
                                                                                                    -fMet - leu - ala - asn - pro - thr - arg - ser - arg - cys - phe - cys -
     - thr - asn - gln - asn - gly - ser - val - cys - lys - thr - val - asp - lys -
```

[###> orf 21 codons   ... sd

```
      *1108380   *      *1108390   *      *1108400   *      *1108410   *      *1108420   *      *1108430   *      *1108440   *      *1108450   *
5' tctttaggagaagcacggaaagtgaaaacggttgcaatcaggtgcttaatccatgagccagcgtgctgaacgataccggga 3'
   - ser - leu - glu - ala - arg - lys - val - lys - thr - val - ala - cys - leu - ile - his - glu - pro - ala - cys -
     - leu -                                           -fMet - gln - ser - gly - ala -             -fMet - ser - gln - arg - ala - glu - arg - tyr - arg - asp -
                                                      -fMet - leu - asn - pro -                  -fMet - leu - asn - asp - thr - gly - ile -
```

... sd   ir mdoC_mdoG+   [###> orf 16 codons

{<------------------------->} sd-(14)-ir 1108399 Gap 4.9 bits

ir mdoC_mdoG+

|----------------------------| sd-ir 1108399 mdoC mdoG+ total 7.6 bits

sd

{<------------------->} sd-(11)-ir 1108430 Gap 3.0 bits
|--------------------| sd-ir 1108430 mdoC_mdoG+ total 6.8 bits

```
      *1108460   *      *1108470   *      *1108480   *      *1108490   *      *1108500   *      *1108510   *      *1108520   *      *1108530   *
5' ttctgttgtcggaatggctggttatccattaaaatagatcggatcgatataagcacacaaggggggaagtgcttactaatt 3'
   - ser - val - val - gly - met - ala - gly - tyr - pro - leu - lys -
     - leu - leu - ser - glu - trp - leu - val - ile - his -                                                                        -fMet - leu - thr - asn - tyr -
```

p35   4.6 bits   [###> orf 22 codons   sd   ... ir

p10   7.6 bits   {<-------------------------- ... sd-(16)-ir 1108540 Gap

p35-(24)-p10 1108489 Gap 2.4 bits
p35-p10 1108489 total 9.8 bits

|------------------------------ ... sd-ir 1108540 mdoC_mdoG+

```
     *1108540  *      *1108550  *      *1108560  *      *1108570  *
 5' a t g a a a c a t a a a c t a c a a a t g a t g a a a a t g c g t t g g t t 3'
   -fMet - lys - his - lys - leu - gln - met - met - lys - met - arg - trp -
     -     -     -     -     -     -     -     -     -     -     -     -
         - glu - thr -     -     -     -     -     -    -fMet - val -
```

... ir mdoC_mdoG+   p10   3.6 bits

... } sd-(16)-ir 1108540 Gap 6.4 bits   [------------------------------ ... NC_000913.mdoG
... | sd-ir 1108540 mdoC_mdoG+ total 10.8 bits

p35   3.3 bits

p35-(23)-p10 1108564 Gap 1.4 bits
p35-p10 1108564 total 5.5 bits