piece 1, NC_000913, yfjO_yfjP+, config: linear, direction: +, begin: 2765348, end: 2765751

```
          *2765350  *        *2765360  *        *2765370  *        *2765380  *        *2765390  *        *2765400  *        *2765410  *        *2765420  *
5' gtacgccaagtcctgtcaatggatttttgaaactcttctttctaaacgaaccagtatagaattcgccctttggcatgata 3'
   -  val - arg - gln - val - leu - ser - met - asp - phe -              -              -              -              -              -              -fMet - ile -  -
   -  tyr - ala - lys - ser - cys - gln - trp - ile - phe - glu - thr - leu - leu - ser - lys - arg - thr - ser - ile - glu - phe - ala - leu - leu - ala -  -
   -  thr - pro - ser - pro - val - asn - gly - phe - leu - lys - leu - phe - phe - leu - asn - glu - pro - val -  -    -    -    -    -    -    -
                                   p35   6.4 bits                        p10   2.4 bits                        p35   4.1 bits
                          p35-(25)-p10 2765400 Gap 4.0 bits
                          p35-p10 2765400 total 4.8 bits                  {           ... p35-(23)-p10 2765443 Gap
                                                                          ----------- ... p35-p10 2765443 total 9.1
```

```
          *2765430  *        *2765440  *        *2765450  *        *2765460  *        *2765470  *        *2765480  *        *2765490  *        *2765500  *
5' ttaacttgtccaatatgatcaaatagcattaaccccccctcacaacgtcctgcataggaacacgttttccctgtgcacc 3'
   -  leu - thr - cys - pro - ile -  -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
   -              -fMet - ser - asn - met - ile - lys -  -    -    -    -    -    -    -    -    -    -    -fMet - his - pro -
                   p35   2.8 bits        p10   6.4 bits                                                     p35   3.2 bits
...  p35-(23)-p10 2765443 Gap 1.4 bits                                                          {           ... p35-(22)-p10 2765517 Gap
...  p35-p10 2765443 total 9.1 bits                                                             ----------- ... p35-p10 2765517 total 6.6
                              p10   4.5 bits
                  {           p35-(23)-p10 2765453 Gap 1.4 bits
                  ----------- p35-p10 2765453 total 5.9 bits
```

```
          *2765510  *        *2765520  *        *2765530  *        *2765540  *        *2765550  *        *2765560  *        *2765570  *        *2765580  *        *2765590
5' cacgactaaatttccccccctttaaacttctcaataatgtcaccaatttctggaaatctactgatgccttccggtaaa 3'
   -    -    -    -    -    -    -    -    -              -fMet - ser - pro - ile - phe - trp - lys - ser - tyr - asp - ala - phe - pro - gly - lys -
   -  arg - leu - asn - phe - pro - pro - phe - lys - leu - leu - asn - asn - val - thr - asn - phe - leu - glu - ile - leu -              -fMet - met - pro - phe - pro - val - asn -  -    -fMet -
                 p10   5.7 bits                        p10   4.6 bits                                                ir yfjO_yfjP+
...  p35-(22)-p10 2765517 Gap 2.3 bits                                                     sd                                    ir yfjO_yfjP+
...  p35-p10 2765517 total 6.6 bits                    p10   3.8 bits                              {           sd-(8)-ir 2765571 Gap 2.4 bits
                 p35   3.8 bits                         p35   1.7 bits               |----------| sd-ir 2765571 yfjO_yfjP+ total 9.0 bits
                          p35-(22)-p10 2765543 Gap 2.3 bits                          {           sd-(11)-ir 2765574 Gap 3.0 bits
                          p35-p10 2765543 total 6.0 bits                             ----------- sd-ir 2765574 yfjO_yfjP+ total 8.6 bits
                 p35-(24)-p10 2765545 Gap 2.4 bits                                                           p10   6.4 bits
                 p35-p10 2765545 total 5.1 bits
                 p35   5.6 bits                         p10   1.5 bits
                          p35-(23)-p10 2765554 Gap 1.4 bits
                          p35-p10 2765554 total 5.7 bits
                                                       p10   1.4 bits
                 p35-(24)-p10 2765555 Gap 2.4 bits
                 p35-p10 2765555 total 4.5 bits
```

- 2 -

p35-(23)-p10 2765571 Gap 1.4 bits
p35-p10 2765571 total 6.7 bits

```
         *      *2765600  *      *2765610  *      *2765620  *      *2765630  *      *2765640  *      *2765650  *      *2765660  *      *2765670
5' tggtgctgtgagttcagaaagattctgcaatctatgtgcattgaaaaaaatcttcagtatatcattctcctgaacaatc 3'
 - trp - cys - cys - glu - phe - arg - lys - ile - leu - gln - ser - met - cys - ile - glu - lys - ile - phe - arg -   - - - - - -
   - gly - ala - val - ser - ser - glu - arg - phe - cys - asn - leu - cys - ala - leu - lys - lys - ser - ser - asp - arg - tyr - his - ser - pro - glu - gln - ser -
     - val - leu -   - - - - - - - - - - -fMet - his -   - - - - - - - - -
```

p35 6.4 bits
p10 6.3 bits

p35-(21)-p10 2765653 Gap 3.3 bits
p35-p10 2765653 total 9.5 bits

p10 3.1 bits

p35-(24)-p10 2765656 Gap 2.4 bits
p35-p10 2765656 total 7.1 bits

```
         *      *2765680  *      *2765690  *      *2765700  *      *2765710  *      *2765720  *      *2765730  *      *2765740  *      *2765750
5' cgatgaacggcagaacctcgcgggttctgccgtttttgttttactttcagaggagtggtgatgaaaaatttgaagttct 3'
     - asp - glu - arg - gln - asn - leu - ala - val - leu - pro - phe - leu - phe - tyr - phe - ser - glu - glu - trp - val - met - lys - asn - phe - glu - val -
     -fMet - asn - gly - arg - thr - ser - arg - phe - cys - arg - phe - cys - phe - thr - phe - gln - arg - ser - gly - asp - glu - lys - phe -   -
                                                                              -fMet - val - met - lys - asn - phe - glu - val -
                                                                                        -fMet - lys - phe -
```

sd   [-- ... NC_000913.yfjP

p35 5.7 bits

[###> orf 54 codons

ir yfjO_yfjP+

sd-(5)-ir 2765729 Gap 5.4 bits
sd-ir 2765729 yfjO_yfjP+ total 8.5 bits

p35 4.6 bits
ir yfjO_yfjP+

sd-(8)-ir 2765732 Gap 2.4 bits
sd-ir 2765732 yfjO_yfjP+ total 16.2 bits

p10 3.8 bits

p35-(25)-p10 2765736 Gap 4.0 bits
p35-p10 2765736 total 5.5 bits

p10 1.4 bits

p35-(23)-p10 2765739 Gap 1.4 bits
p35-p10 2765739 total 4.6 bits