piece 1, NC_000913, yjaZ_thiH+, config: linear, direction: +, begin: 4188319, end: 4188777

```
        *4188320  *       *4188330  *       *4188340  *       *4188350  *       *4188360  *       *4188370  *       *4188380  *       *4188390  *
5' a a t a a g c a g c t t c c t c a g c c c t c a a a a t a a c a a a a c c c a c c t t a a g g t g g g t t t c g c c a g a g a a t t a t c t c t g g t a t t c a g 3'
   - asn - lys - gln - leu - pro - gln - pro - ser - lys -   - thr - his - leu - lys - val - gly - phe - ala - arg - glu - leu - ser - leu - val - phe - arg -
   - ile - ser - ser - phe - leu - ser - pro - gln - asn - asn - lys - thr - his - leu - lys - val - gly - phe - ala - arg - glu - leu - ser - leu - val - phe - arg -
```

```
        *4188400  *       *4188410  *       *4188420  *       *4188430  *       *4188440  *       *4188450  *       *4188460  *       *4188470  *       *4188480
5' a a c g c c a t t a c c g g a c t t t g c c t t g a c c t t g c g a t a a t a c g c a g g t t g c g g t g t c t g a t a a t t t c a g t c t g c t g c a t c c 3'
   - thr - pro - leu - pro - asp - phe - ala - leu - thr - leu - arg -                -fMet - ser - glu - phe - leu - gln - ser - ala - ala - ser -
                         -fMet - pro -                          -fMet - arg - asp - val -
```

ir yjaZ_thiH+   ... sd

sd   p35   4.5 bits

{-----------} sd-(8)-ir 4188451 Gap 2.4 bits
|-----------| sd-ir 4188451 yjaZ_thiH+ total 6.8 bits
{----------------------------------- ... p35-(23)-p10 4188484 Gap
|----------------------------------- ------------------------------------ p35-p10 4188484 total 4.6

```
        *         *4188490  *       *4188500  *       *4188510  *       *4188520  *       *4188530  *       *4188540  *       *4188550  *       *4188560
5' t g g a a g a t g a g a a c a t g t g t t c t t a t t t c g t c t c t a t c a t a g t t g a g t a t t t a c t c t c t t a c a a t c a g a t c t c t t t c a t t 3'
   - trp - lys - met - arg - thr - cys - val - leu - ile - phe - val - ser - ile - ile - val - glu - tyr - leu - leu - ser - tyr - asn - gln - ile - ser - phe - ile -
                          -fMet - phe - leu - phe - ser - ser - leu - ser -  -fMet - ser - ile - tyr - ser - leu - thr - ile - arg - ser - leu - ser - leu -
                          -fMet - cys - ser - tyr - phe - arg - leu - tyr - his - ser -
```

... sd   p10   5.2 bits   [###> orf 11 codons   p10   6.9 bits   p10   2.4 bits

ir yjaZ_thiH+   p10   3.4 bits   p35   5.3 bits

{-----------} sd-(6)-ir 4188495 Gap 4.3 bits   p35   1.2 bits   p10   4.5 bits   {----------- ... p35-(26)-p10 4188582 Gap

|-----------| sd-ir 4188495 yjaZ_thiH+ total 5.5 bits   {-----------------------------} p35-(25)-p10 4188542 Gap 4.0 bits

... -----} p35-(23)-p10 4188484 Gap 1.4 bits   p35   3.5 bits   p35   5.7 bits |----------- ... p35-p10 4188582 total 4.2

... -----| p35-p10 4188484 total 4.6 bits   p10   1.6 bits   {-----------------------------} p35-(24)-p10 4188532 Gap 2.4 bits

p35   3.4 bits |---------------------------------------| p35-p10 4188532 total 4.4 bits

{----------------------------------} p35-(26)-p10 4188534 Gap 3.7 bits

{-----------------------} p35-(23)-p10 4188505 Gap 1.4 bits   {-----------------------------} p35-(24)-p10 4188556 Gap 2.4 bits
|-----------------------| p35-p10 4188505 total 7.2 bits |--------------------------------| p35-p10 4188556 total 5.7 bits
|--| p35-p10 4188534 total 4.3 bits
|--| p35-p10 4188542 total 4.1 bits

```
        *         *4188570  *       *4188580  *       *4188590  *       *4188600  *       *4188610  *       *4188620  *       *4188630  *       *4188640
5' g c t c a a g g c g a t g g c a t g g c a t c t g a c t t t g c a t t a c g a a a a t t t t a g a a a g g c a g g c g c g a a a c g a g g a a g c t t t t c g c c 3'
   - ala - gln - gln - ala - met - ala - ser - asp - phe - ala - leu - arg - asn - phe -
   - leu - asn - arg - arg - trp - leu - gln - thr - leu - his - tyr - gly - ile - phe - lys - lys - gly - arg - ala - lys - arg - gly - arg - ser - phe - ser - pro -
```

p10   2.6 bits   [###> orf 52 codons

... -------------------------------------} p35-(26)-p10 4188582 Gap 3.7 bits

... --| p35-p10 4188582 total 4.2 bits

```
        *        *4188650  *        *4188660  *        *4188670  *        *4188680  *        *4188690  *        *4188700  *        *4188710  *        *4188720
5' c t g g a c a a c a t t c c t g c t g a c g g c a c t a c c a t a a a a a a a c a c a a c g c t t c a a c a a c t t g c g t t t t t c a t c t t c c g t a g c 3'
    - trp - thr - thr - phe - leu - leu - thr - ala - leu - pro -  ●  -   -   -   -   -   -   -   -   -   -  -fMet - arg - phe - ser - ser - ser - val - ala -
```

p35 4.3 bits   p10 4.9 bits   p35 5.3 bits

{-------------------------------} p35-(25)-p10 4188670 Gap 4.0 bits   {----------------------- ... p35-(25)-p10 4188734 Gap
|------------------------------- p35-p10 4188670 total 5.2 bits |----------------------------- ... p35-p10 4188734 total 7.0
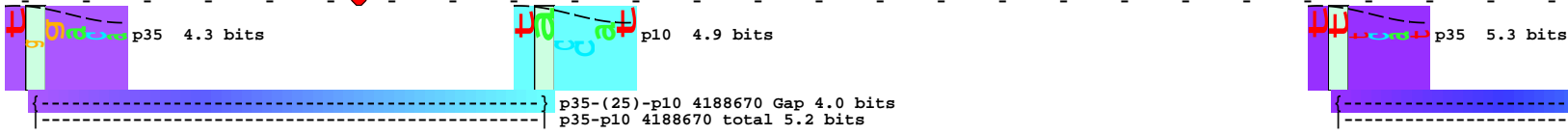
```
        *        *4188730  *        *4188740  *        *4188750  *        *4188760  *        *4188770  *
5' g g c t c g g a a t a a a t t t a c g t t c t t a c a t t c c g t c t c a t a g t c t t t g c g a g g c g c 3'
    - ala - arg - asn - lys - phe - thr - phe - leu - his - ser - val - ser -  ●  -   -fMet - arg - gly -
```
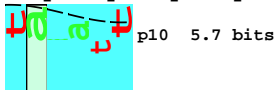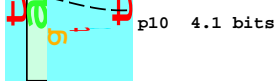
p10 5.7 bits   <--------------------------------------- ... NC_000913.thiH

... --------------------} p35-(25)-p10 4188734 Gap 4.0 bits   p10 3.0 bits
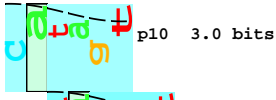
... --------------------| p35-p10 4188734 total 7.0 bits   p10 4.1 bits

p35 4.6 bits

{-------------------------------} p35-(22)-p10 4188760 Gap 2.3 bits
|-------------------------------| p35-p10 4188760 total 5.3 bits
{-------------------------------} p35-(24)-p10 4188762 Gap 2.4 bits
|-------------------------------| p35-p10 4188762 total 6.4 bits