piece 1, NC_000913, prfC_osmY+, config: linear, direction: +, begin: 4608997, end: 4609438

```
        *4609000  *       *4609010  *       *4609020  *       *4609030  *       *4609040  *       *4609050  *       *4609060  *       *4609070  *
5' g t t c a g t t c c a c c a g a c c c g c g a g c a t t a a t t c t t g c t c c a g g g c g c g t a g c c g c t g c g c c c t g t c a a t t t c c c t t c c t 3'
  - val - gln - phe - his - gln - thr - arg - glu - his -     - -fMet - pro - pro - gly - arg - gly - ser - arg - cys - ala - val - ala - ala - ala - pro - cys - gln - phe - pro - phe - leu -
      - phe - ser - ser - thr - arg - pro - ala - ser - ile - asn - ser - cys - leu - gln - gly - ala - ala - val - ala - ala - ala - pro - cys - gln - phe - pro - phe - leu -
      - ser - val - pro - pro - asp - pro - arg - ala - leu - ile - leu - ala - ser - arg - ala - arg -     - -   -   -   -   -   -   -   -   -   -
```
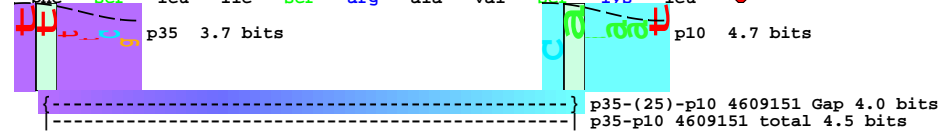
```
        *4609080  *       *4609090  *       *4609100  *       *4609110  *       *4609120  *       *4609130  *       *4609140  *       *4609150  *
5' t a t t a g c c g c t t a c g g a a t g t t c t t a a a c a t t c a c t t t t g c t t a t g t t t t c g c t g a t a t c c c g a g c g g t t t c a a a a t t g t 3'
  - tyr -     - ile - ser - arg - leu - arg - asn - val - leu - lys - thr - phe - thr - phe - ala - tyr - val - phe - ala - asp - ile - pro - ser - gly - phe - lys - ile - val -
      - -fMet - phe - leu - lys - his - ser - leu - leu - leu - met - phe - ser - leu - ile - ser - arg - ala - val - ser - lys - leu -
```
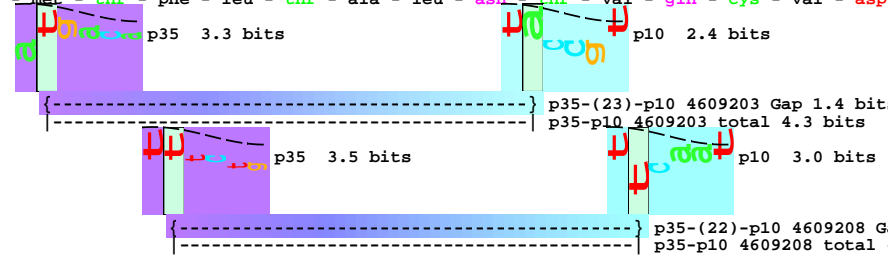
p35   3.7 bits   p10   4.7 bits

{- -} p35-(25)-p10 4609151 Gap 4.0 bits
|- -| p35-p10 4609151 total 4.5 bits

```
        *4609160  *       *4609170  *       *4609180  *       *4609190  *       *4609200  *       *4609210  *       *4609220  *       *4609230  *
5' g a t c t a t a t t t a a c a a a g t g a t g a c a t t c t g a c g g c g t t a a a t a c c g t t c a a t g c g t a g a t a t c a g t a t c t a a a g c c g t c 3'
  - ile - tyr - ile -     -     -     -     -     -     -     -     -     -     -     - -fMet - arg - arg - tyr - gln - tyr - leu - lys - pro - ser -
      - -fMet - met - thr - phe - leu - thr - ala - leu - asn - thr - val - gln - cys - val - asp - ile - ser - ile -
```

p35   3.3 bits   p10   2.4 bits

{- -} p35-(23)-p10 4609203 Gap 1.4 bits
|- -| p35-p10 4609203 total 4.3 bits

p35   3.5 bits   p10   3.0 bits

{- -} p35-(22)-p10 4609208 Gap 2.3 bits
|- -| p35-p10 4609208 total 4.2 bits

```
        *4609240  *       *4609250  *       *4609260  *       *4609270  *       *4609280  *       *4609290  *       *4609300  *       *4609310  *       *4609320
5' g a t t g t c a t t c t a c c g a t a t t a a t a a c t g a t t c a g a g g c t g t a a t g g t c g t t a t t c a t c a c t c a t c g c t t t t g t g a t g g c g 3'
  - ile - val - ile - leu - pro - ile - leu - ile - thr - asp - ser - glu - ala - val - met - val - val - ile - his - his - ser - ser - leu - leu -     - -fMet - met - ala -
      - -fMet - ser - phe - tyr - arg - tyr -     -     -     -     -     -     -
```
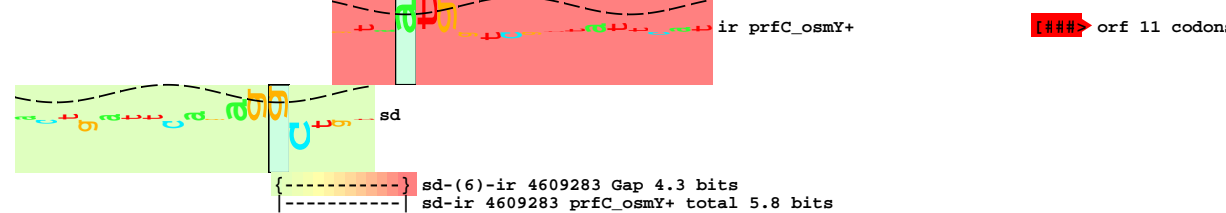
ir prfC_osmY+   [###> orf 11 codons

sd

{- - - - - - - -} sd-(6)-ir 4609283 Gap 4.3 bits
|- - - - - - - -| sd-ir 4609283 prfC_osmY+ total 5.8 bits

```
            *          *4609330  *       *4609340  *       *4609350  *       *4609360  *       *4609370  *       *4609380  *       *4609390  *       *4609400
5' a c c a t t g a c t t c t g t a g a g g g t g a a g t c t c t c c c t a t t c a g c a a t g c a a c c t c g t g t t g c c a g g c t c a a a t t a c g a g c a a a 3'
  - thr - ile - asp - phe - cys - arg - gly -     - glu - gly - glu - val - ser - pro - tyr - ser - ala - met - gln - pro - arg - val - ala - arg - leu - lys - leu - arg - ala - asn -
      - -fMet - thr - ser - val - glu - gly - glu - val - ser - pro - ile - gln - gln - cys - asn - leu - val - leu - pro - gly - ser - asn - tyr - glu - gln - thr -
      - -fMet - lys - ser - leu - pro - ile - gln - gln - cys - asn - leu - val - leu - pro - gly - ser - asn - tyr - glu - gln - thr -
```
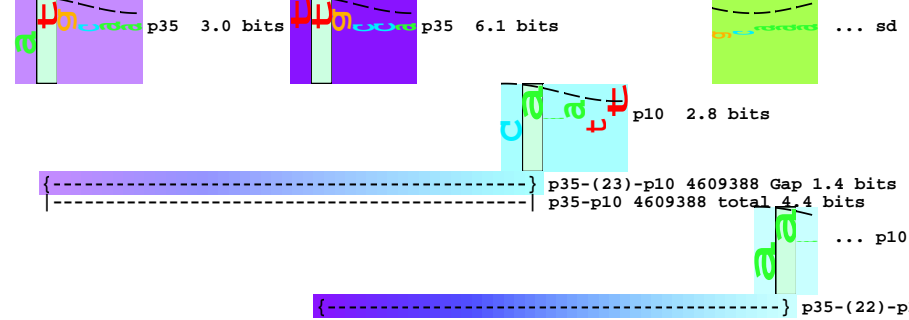
p35   3.0 bits   p35   6.1 bits   ... sd

p10   2.8 bits

{- - - - - - - - - - - - - - - - - - -} p35-(23)-p10 4609388 Gap 1.4 bits
|- - - - - - - - - - - - - - - - - - -| p35-p10 4609388 total 4.4 bits

... p10

{- -} p35-(22)-p10 4609400 Gap 2.3 bit

|---| p35-p10 4609400 total 5.5 bits

```
         *        *4609410   *      *4609420   *      *4609430   *
5' c a t a c a g g a a t a a a t c g a t g a c t a t g a c a a g a c t g a a 3'
   -  ile - gln - glu -  ●  -     -     -     -     -     -     -     -
      - tyr - arg - asn - lys - ser - met - thr - met - thr - arg - leu -
...                              sd    [------------------------------- ... NC_000913.osmY
```

ir prfC_osmY+

{--------------------} sd-(10)-ir 4609419 Gap 2.7 bits

|--------------------| sd-ir 4609419 prfC_osmY+ total 13.2 bits

... p10 1.8 bits