piece 1, NC_000913, yhjR_bcsE+, config: linear, direction: +, begin: 3694179, end: 3694500

```
        *3694180  *        *3694190  *        *3694200  *        *3694210  *        *3694220  *        *3694230  *        *3694240  *        *3694250  *
5' a g g c a g a g t a t c t g g t t c a t t g t t a t t c a t t t t g c t t g a t c c c t a t g a a a t a a c c g t a c c g t t c a t g a g a c a a t t c t a a c c 3'
   - arg - gln - ser - ile - trp - phe - ile - val - ile - his - phe - ala - asp - pro - tyr - glu - ile - thr - val - pro - phe - met - arg - gln - phe -   -   -
     - gly - arg - val - ser - gly - ser - leu - leu - phe - ile - leu - leu - asp - pro - tyr - glu - ile - thr - val - pro - phe - met - arg - gln - phe -   -
       - ala - glu - tyr - leu - val - his - cys - tyr - ser - phe - cys - leu - ile - pro - met - lys -   -   -   -   -   -   -   -   -   -   -
       ------------------------------------------------------------------] NC_000913.yhjR
```
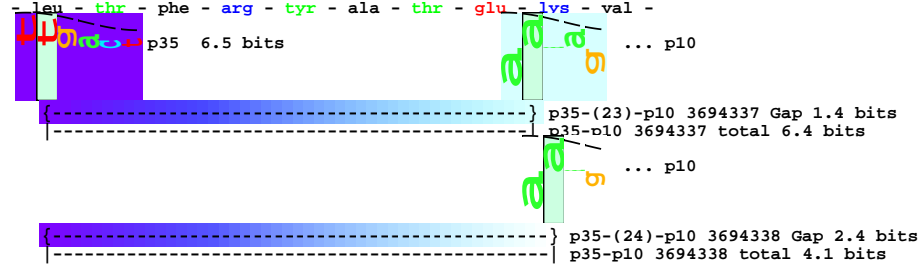
```
        *3694260  *        *3694270  *        *3694280  *        *3694290  *        *3694300  *        *3694310  *        *3694320  *        *3694330  *        *3694340
5' g t g a g c a t t t c g c c g g t t t a t t g t t t a c g g c g a g a c g g g a a t t t g c t c a c t t t t t g a c t t t c c g t t a c g c a a c a g a a a a g 3'
   -fMet - ser - ile - ser - pro - val - tyr - cys - leu - arg - arg - asp - gly - asn - leu - leu - thr - phe -   -   -   -   -   -   -   -   -
                           -fMet - phe - thr - ala - arg - arg - glu - phe - ala - his - phe - leu - thr - phe - arg - tyr - ala - thr - glu - lys - val -
```
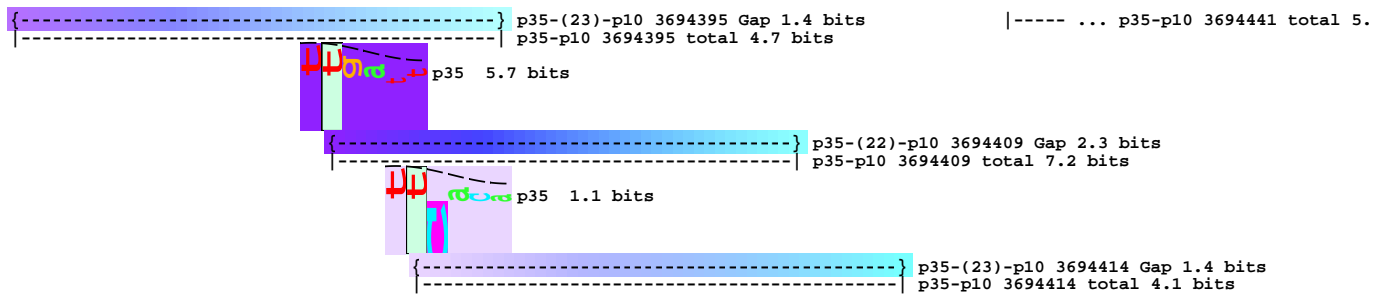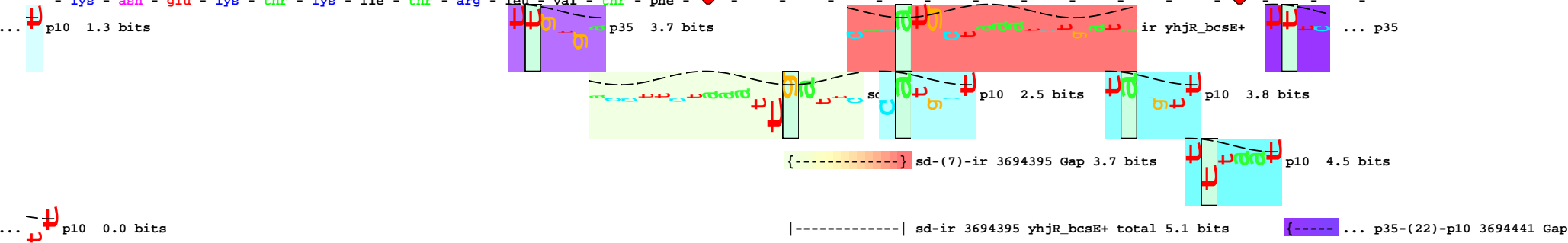
p35 6.5 bits ... p10

{- - - - - - - - - - - - - - - -} p35-(23)-p10 3694337 Gap 1.4 bits
|- - - - - - - - - - - - - - - - | p35-p10 3694337 total 6.4 bits

... p10

{- - - - - - - - - - - - - - - -} p35-(24)-p10 3694338 Gap 2.4 bits
|- - - - - - - - - - - - - - - - | p35-p10 3694338 total 4.1 bits

```
         *        *3694350  *        *3694360  *        *3694370  *        *3694380  *        *3694390  *        *3694400  *        *3694410  *        *3694420
5' t t a a a a c g a a a a g a c t a a a a t c a c a c g t c t t g t g a c c t t c t a a a t t g a t t c a c a t g c t a a a t c t g a t a a g t t t t a a t t t c 3'
   -   -   -   -   -   -   -   -   -   -   -   -   -fMet -   -   -   -fMet - ile - his - met - leu - asn - leu - ile - ser - phe - asn - phe -
     - lys - asn - glu - lys - thr - lys - ile - thr - arg - leu - val - thr - phe -   -   -
```

... p10 1.3 bits   p35 3.7 bits   ir yhjR_bcsE+   ... p35

sd   p10 2.5 bits   p10 3.8 bits

{- - - - - - - -} sd-(7)-ir 3694395 Gap 3.7 bits   p10 4.5 bits

... p10 0.0 bits |- - - - - - - - - -| sd-ir 3694395 yhjR_bcsE+ total 5.1 bits   {- - - - ... p35-(22)-p10 3694441 Gap

{- - - - - - - - - - - - - - - -} p35-(23)-p10 3694395 Gap 1.4 bits |- - - - ... p35-p10 3694441 total 5.5
|- - - - - - - - - - - - - - - - | p35-p10 3694395 total 4.7 bits

p35 5.7 bits

{- - - - - - - - - - - - - - - -} p35-(22)-p10 3694409 Gap 2.3 bits
|- - - - - - - - - - - - - - - - | p35-p10 3694409 total 7.2 bits

p35 1.1 bits

{- - - - - - - - - - - - - - - -} p35-(23)-p10 3694414 Gap 1.4 bits
|- - - - - - - - - - - - - - - - | p35-p10 3694414 total 4.1 bits

```
         *        *3694430  *        *3694440  *        *3694450  *        *3694460  *        *3694470  *        *3694480  *        *3694490  *        *3694500
5' a a t g g t a g g t t t a t t t c t t a g c t t t c g c t a g t a a a c t g a t a a t c a g a c a a a t g g t g a c a t g a g g g a c a t t g t t g g a c c c 3'
   - asn - gly - arg - phe - ile - ser -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - val - thr -   -   -   -fMet - trp - thr -
   -fMet - val - gly - leu - phe - leu - ser - phe - arg -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
                                                                                                  -fMet - arg - asp - ile - val - asp -
```

... p35 5.2 bits   [###> orf 16 codons   p10 6.5 bits   [- ... NC_000913.bcsE

p10   2.6 bits

p10   4.3 bits

ir yhjR_bcsE+

p35   4.8 bits

sd

... p35-(22)-p10 3694441 Gap 2.3 bits

{---------} sd-(5)-ir 3694481 Gap 5.4 bits

... p35-p10 3694441 total 5.5 bits

|---------| sd-ir 3694481 yhjR_bcsE+ total 7.2 bits

{----------} p35-(22)-p10 3694454 Gap 2.3 bits

|----------| p35-p10 3694454 total 9.0 bits

p35   4.5 bits

} p35-(24)-p10 3694460 Gap 2.4 bits

| p35-p10 3694460 total 6.4 bits