piece 1, NC_000913, REP313_yjbE-, config: linear, direction: -, begin: 4233958, end: 4233501

```
       *      *4233950  *      *4233940  *      *4233930  *      *4233920  *      *4233910  *      *4233900  *      *4233890  *      *4233880
5' ggcaaaaatgccatacagaacttttttcataacaatttcccttcattgaatgaatggagatttacccaaaaacatttcggg 3'
   - gly - lys - asn - ala - ile - gln - asn - phe - phe - his - asn - asn - phe - pro - ser - leu - asn - glu - trp - arg - phe - thr - gln - lys - his - phe - gly -
     - ala - lys - met - pro - tyr - arg - thr - phe - phe - ile - thr - ile - ser - leu - his - ● - -fMet - asn - gly - asp - leu - pro - lys - asn - ile - ser - gly -
       - gln - lys - cys - his - thr - glu - leu - phe - ser - ● - -fMet - glu - ile - tyr - pro - lys - thr - phe - arg - ala -
```
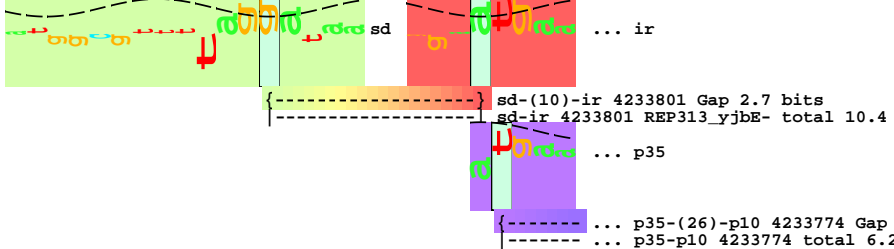
... --] NC_000913.yjbE

p10   2.7 bits
p10   1.8 bits
p35   3.0 bits
p10   3.2 bits
p35   6.5 bits

{ - } p35-(23)-p10 4233927 Gap 1.4 bits
| - | p35-p10 4233927 total 4.7 bits

p35   4.6 bits

{ - } p35-(24)-p10 4233888 Gap 2.4 bits

{ - - - - - - - - - - - - - - - - - - } p35-(22)-p10 4233912 Gap 2.3 bits
| - - - - - - - - - - - - - - - - - - | p35-p10 4233912 total 5.0 bits
| - - - - - - - - - - - - - - - - - - | p35-p10 4233888 total 5.9 bits
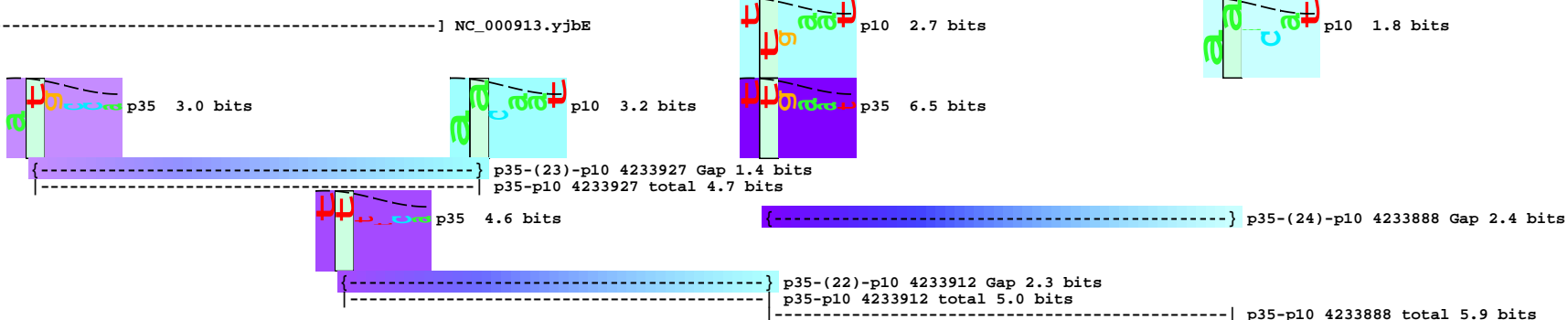
```
       *      *4233870  *      *4233860  *      *4233850  *      *4233840  *      *4233830  *      *4233820  *      *4233810  *      *4233800
5' cggatcgagtatacacaactaaagcatgcgaattacggcgcggggaattagcgatggcgttttaggataattggaatgaa 3'
   - arg - asp - arg - val - tyr - thr - thr - lys - ala - cys - glu - leu - arg - arg - gly - glu - leu - ala - met - ala - phe - ● - -fMet - asn -
     - gly - ile - glu - tyr - thr - gln - asn - ● - lys - ● - -fMet - arg - ile - thr - ala - arg - gly - ile - ser - asp - gly - val - leu - gly - ● - -fMet - glu -
       - gly - ser - ser - ile - his - asn - ● - -fMet - arg - ile - thr - ala - arg - gly - ile - ser - asp - gly - val - leu - gly - ● -
```

sd
... ir

{ - - - - - - - - - } sd-(10)-ir 4233801 Gap 2.7 bits
| - - - - - - - - - | sd-ir 4233801 REP313_yjbE- total 10.4

... p35

{ - - - ... p35-(26)-p10 4233774 Gap
| - - - ... p35-p10 4233774 total 6.2

```
       *      *4233790  *      *4233780  *      *4233770  *      *4233760  *      *4233750  *      *4233740  *      *4233730  *      *4233720
5' tatcaaatataagtttcaacttatatttaaataacaataaaaatcataaacttaaaataaaaaacaaaagcaattaatctgc 3'
   - ile - lys - tyr - lys - phe - gln - leu - ile - phe - lys - ● - -
```

... ir REP313_yjbE-

[###> orf 13 codons

p10   6.5 bits
p10   5.2 bits
p10   6.5 bits
p10   3.8 bits
p10   7.6 bits

p35   5.2 bits   { - - - - - - - - - - - - - } p35-(21)-p10 4233749 Gap 3.3 bits

... p35   3.5 bits   { - - - - - - - - - - - - - } p35-(25)-p10 4233757 Gap 4.0 bits

... { - - - - - - - - - - - - } p35-(26)-p10 4233774 Gap 3.7 bits

p35   2.7 bits

... - - - - - - - - - - - - - - - | p35-p10 4233774 total 6.2 bits
| - - - - - - - - - - - - - - - | p35-p10 4233757 total 5.0 bits
{ - - - - - - - - - - - - - - } p35-(22)-p10 4233722 Gap 2.3 bits

p35   5.6 bits

| - - - - - - - - - - - - - - - | p35-p10 4233722 total 5.5 bits

p35-p10 4233749 total 8.8 bits

p35 2.8 bits

p35-(26)-p10 4233743 Gap 3.7 bits
p35-p10 4233743 total 6.7 bits

```
*        *4233710   *        *4233700   *        *4233690   *        *4233680   *        *4233670   *        *4233660   *        *4233650   *        *4233640   *
5' g t a t t t t c c g a a a t a a a c a a c g a t t a a a a a t c t a t t t t a g g a t t a a c c t c a c g g t a t g a t t t c c g t t a a a t t a c a g a c a a g 3'
```

fMet - ile - ser - val - lys - leu - gln - thr - arg -

p35 4.3 bits

sd

ir REP313_yjbE-

p10 3.8 bits

sd-(15)-ir 4233660 Gap 6.0 bits

p10 1.4 bits

sd-ir 4233660 REP313_yjbE- total 6.5 bits

p35-(21)-p10 4233689 Gap 3.3 bits

p10 5.7 bits

p35-p10 4233689 total 4.8 bits

p35 1.2 bits

p35-(23)-p10 4233687 Gap 1.4 bits
p35-p10 4233687 total 4.3 bits

p35-(24)-p10 4233648 Gap 2.4 bits
p35-p10 4233648 total 4.5 bits

```
*4233630   *        *4233620   *        *4233610   *        *4233600   *        *4233590   *        *4233580   *        *4233570   *        *4233560   *
5' g g g a t t t a t c t g a t a a a a a a a t g c c g a c a t a a c g t c g g c a t t g t t a t t a a g g t t a t t t a a t c a a t c g t g c t a t g t a t t a a t 3'
```

gly - phe - ile -

-fMet - leu - leu - arg - leu - phe - asn - gln - ser - cys - tyr - val - leu - ile - asn -

-fMet - leu - cys - ile - asn -

-fMet - pro - thr -

-fMet - tyr -   -fMet -

[###> orf 13 codons

p35 5.7 bits

... p10

p35-(21)-p10 4233557 Gap 3.3 bits
p35-p10 4233557 total 4.2 bits

```
*4233550   *        *4233540   *        *4233530   *        *4233520   *        *4233510   *
5' t g c c g a a t a c g a t g t a c a t a t c g g c a t c g a c c t g t a g g c c t g a t a a g a c g c g a 3'
```

- cys - arg - ile - arg - cys - thr - tyr - arg - his - arg - pro - val - gly - leu - ile - arg - arg -

- ala - glu - tyr - asp - val - his - ile - gly - ile - asp - leu -

- pro - asn - thr - met - tyr - ile - ser - ala - ser - thr - cys - arg - pro - asp - lys - thr - arg -

... p10 1.8 bits