- 1 -

piece 1, NC_000913, bax_malS-, config: linear, direction: -, begin: 3735549, end: 3735181

```
        *        *3735540  *        *3735530  *        *3735520  *        *3735510  *        *3735500  *        *3735490  *        *3735480  *        *3735470
5' g a g t g t c a g a a a a c a g g c g g c g a g t t t c a t g g c g g a t g a g t c c t t a t t g c t g c g a t t t c a g a c a g t t t g c c a g c g a t a a g c 3'
    - glu - cys - gln - lys - thr - gly - gly - glu - phe - his - gly - gly -    met - ala - asp - glu - ser - leu - leu - leu - arg - phe - gln - thr - val - cys - gln - arg -              - ile - ser -
    - val - ser - glu - asn - arg - arg - arg - val - ser - trp - arg - met - ser - pro - tyr - cys - cys - asp - phe - arg - gln - phe - ala - ser - asp - lys - pro -
... --------------------------------l NC_000913.malS                                                                                                   [###> orf 17 codons
```

sd   ir bax_malS-

{ -------------------- } sd-(12)-ir 3735521 Gap 4.0 bits
| -------------------- | sd-ir 3735521 bax_malS- total 5.3 bits
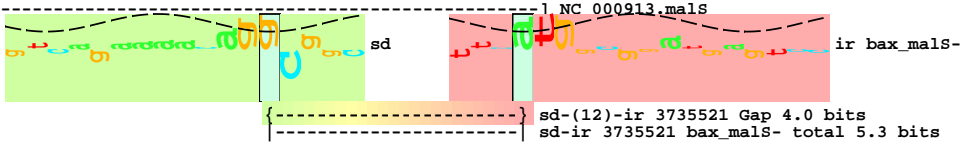
```
        *        *3735460  *        *3735450  *        *3735440  *        *3735430  *        *3735420  *        *3735410  *        *3735400  *        *3735390
5' c a a a c a a a c t c a t c a t c c t g a g c g g t a a g t c c a c a g g a t g a g a a g c a a g g g t g a g c g a t c t c g c a a a a a a a c g g c t g a a t t 3'
    - gln - thr - lys - leu - ile - pro - glu - arg -              -fMet - arg - ser - lys - gly - glu - arg - ser - arg - ala - lys - asn - gly -
                  - asn - lys - thr - his - pro -                  -fMet - ser - asp - leu - ala - gln - lys - thr - ala - glu - phe -
```
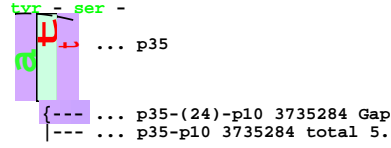
```
        *        *3735380  *        *3735370  *        *3735360  *        *3735350  *        *3735340  *        *3735330  *        *3735320  *        *3735310
5' t t g c g a t a a c c c c c a c a t t t t c t g c g a t t a g c g g c c a a t c t g a a t c g t t a c a c g t g a c a t a g t t t c a g a t t t g g a c t a t t 3'
    -fMet - arg -              - cys - asp - asn - pro - his - ile - phe - cys - asp - leu - ala - pro - ile -                  -fMet - thr -
                                                                                                                                            -fMet - asp - tyr - ser
```

... p35

{ --- ... p35-(24)-p10 3735284 Gap
| --- ... p35-p10 3735284 total 5.0

```
        *        *3735300  *        *3735290  *        *3735280  *        *3735270  *        *3735260  *        *3735250  *        *3735240  *        *3735230
5' c c t t g g g g t g c t c t t g c a g c a g c t a t t t t g a t a t g g a g a t t c a a c t c t c a a a t t t g t g a a a a a t a a a g g t g t t g g a a 3'
              -fMet - leu - leu - thr - ala - ile - phe - asp - met - ile -                  -fMet - arg - phe - asn - ser - gln - ile - cys - glu - lys - tyr - lys - val - leu - glu -
    - leu - gly - cys - ser -                                  -fMet - ile -                          -fMet - lys - asn - ile - arg - cys - trp - asn -
```
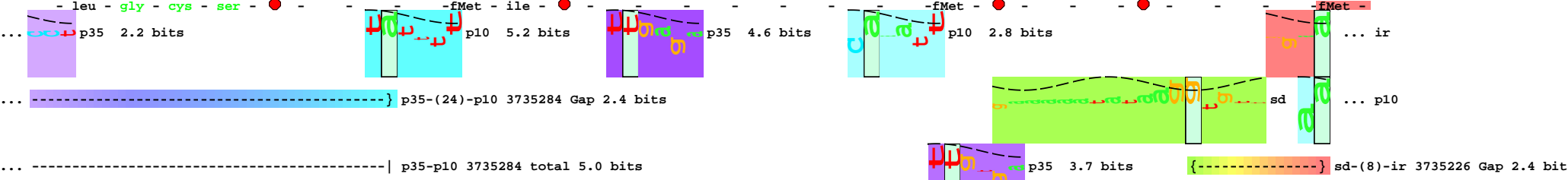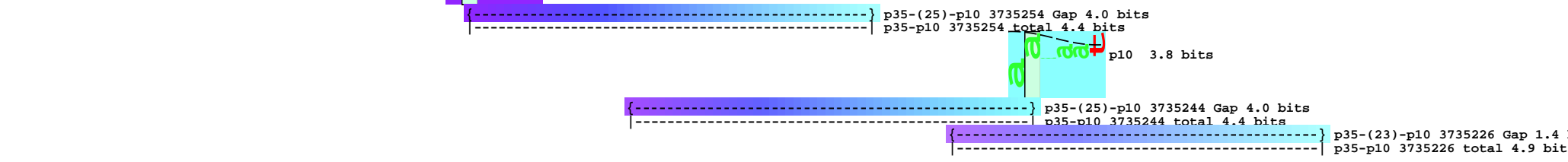
... p35   2.2 bits   p10   5.2 bits   p35   4.6 bits   p10   2.8 bits   -fMet   ... ir

... { -------------------- } p35-(24)-p10 3735284 Gap 2.4 bits   sd   ... p10

... -------------------- | p35-p10 3735284 total 5.0 bits   p35   3.7 bits   { -------------------- } sd-(8)-ir 3735226 Gap 2.4 bits

p35   5.6 bits | -------------------- | sd-ir 3735226 bax_malS- total

{ -------------------- } p35-(25)-p10 3735254 Gap 4.0 bits
| -------------------- | p35-p10 3735254 total 4.4 bits

p10   3.8 bits

{ -------------------- } p35-(25)-p10 3735244 Gap 4.0 bits
| -------------------- | p35-p10 3735244 total 4.4 bits

{ -------------------- } p35-(23)-p10 3735226 Gap 1.4 b
| -------------------- | p35-p10 3735226 total 4.9 bits

```
        *        *3735220  *        *3735210  *        *3735200  *        *3735190  *
5' t g a t t a a a t c c g a c c a g g a g a c c t g a t g a t t t g a c t c c c a t a c g 3'
    - asp -              -fMet - ile - leu - thr - pro - ile -
              - ile - lys - ser - asp - gln - glu - thr -
```
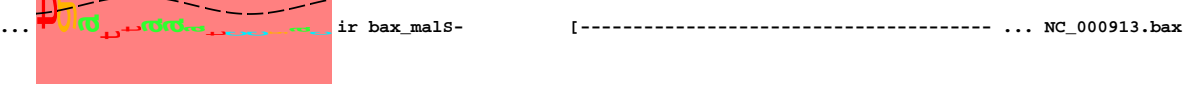
... ir bax_malS-   [-------------------------------- ... NC_000913.bax

... p10 2.7 bits

[###> orf 9 codons

ir bax_malS-

sd

{---------------} sd-(8)-ir 3735200 Gap 2.4 bits
|---------------| sd-ir 3735200 bax_malS- total 10.1 bits