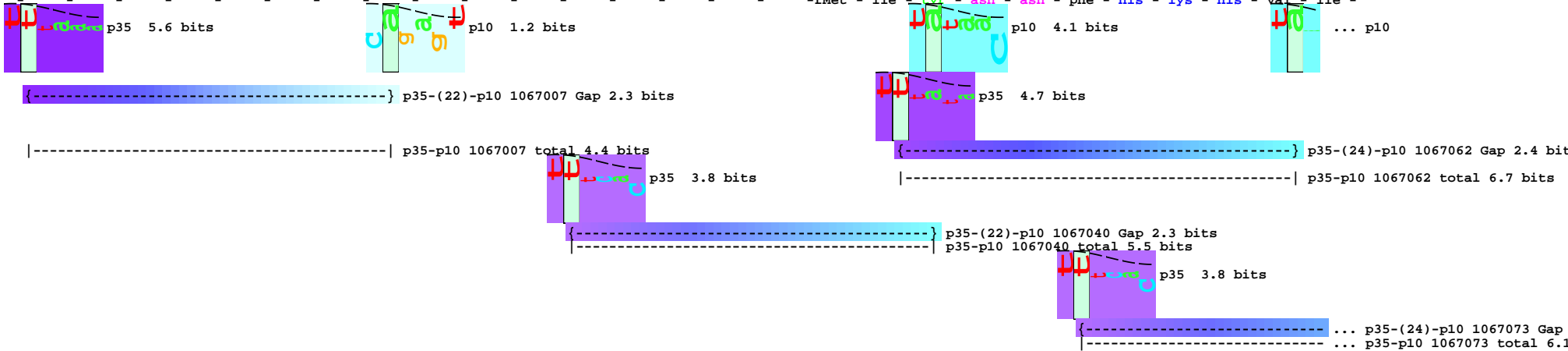- 1 -

piece 1, NC_000913, wrbA_ymdF+, config: linear, direction: +, begin: 1066902, end: 1067323
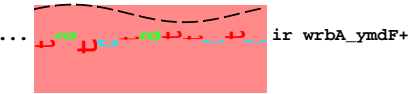
```
          *       *1066910  *       *1066920  *       *1066930  *       *1066940  *       *1066950  *       *1066960  *       *1066970  *       *1066980
5' ggaataataaagcaccagaactttagccatttctaaccactcctcgtgttatctcttattccgtagcgattcgctaccactt 3'
   - gly - ile - ile - lys - his - gln - asn - phe - ser - his - phe - ●   -   -   -   -   -   -fMet - leu - ser - leu - phe - arg - ser - asp - ser - leu - pro - leu -
   - glu -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
   - asn - asn - lys - ala - pro - glu - leu -   ●   -   -   -   -   -   -   -   -   -   ●   -   -   -   -   -   -   -   -   -   -
...                                                     ] NC_000913.wrbA
```

```
          *       *1066990  *       *1067000  *       *1067010  *       *1067020  *       *1067030  *       *1067040  *       *1067050  *       *1067060
5' atttaaagataagacgtcctttcagagtgcaaatttcacaaccacttatttgattataacaactttcacaagcacgtaa 3'
   - ile - ● -   -   -   -   -   -   -   -   -fMet - gln - ile - ser - gln - pro - leu - ile - ● -   -   -   -   -   -   -   ●   -   -   -   -   -   -   -   -   - ●
   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - ile - tyr - asn - asn - phe - his - lys - his - val - ile -
```

```
        *      *1067150  *       *1067160  *       *1067170  *       *1067180  *       *1067190  *       *1067200  *       *1067210  *       *1067220  *
5' tatctattctcgctaagaagctgttgcaggatattaccaaacgcgggtctgccgcgtcagttcactaagcttagtcccac 3'
     -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
   - ser - ile - leu - ala - lys - lys - leu - leu - gln - asp - ile - thr - lys - arg - gly - ser - ala - arg - val - ser - ser - leu - ser - leu - val - pro - arg -
```

p10   6.0 bits
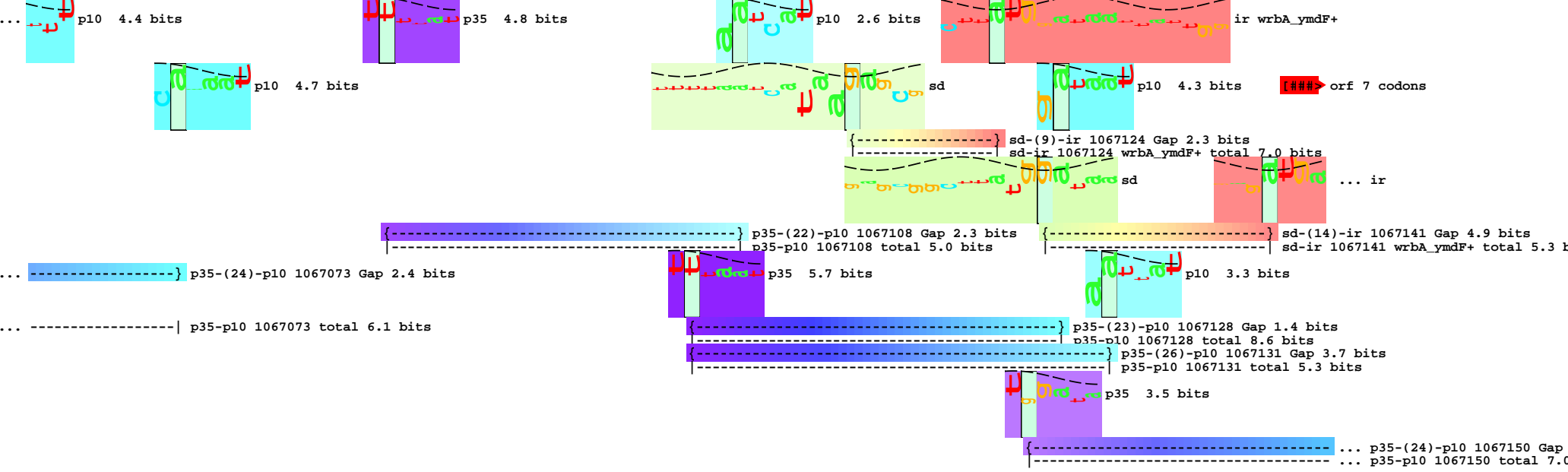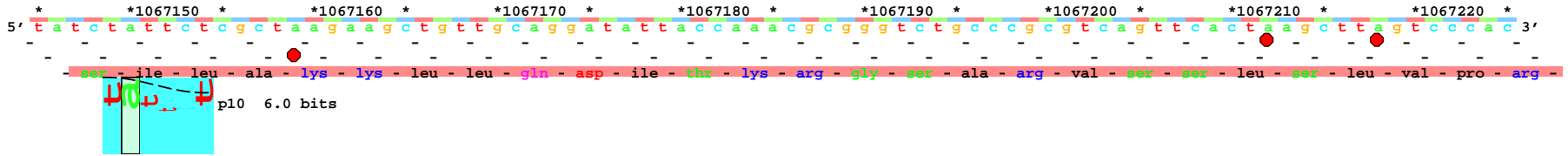
... ir wrbA_ymdF+

... ┈┈┈┈┈┈} p35-(24)-p10 1067150 Gap 2.4 bits
... ┈┈┈┈┈┈| p35-p10 1067150 total 7.0 bits

```
        *1067230  *       *1067240  *       *1067250  *       *1067260  *       *1067270  *       *1067280  *       *1067290  *       *1067300  *
5' gtagcgaaaatatggcgagccgcatacgcgcgttaattctatgcaatatgatgtctataccccagacgagggaggtcagtaatg 3'
     -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
                                                                                            -fMet - met - ser - ile - pro - arg - arg - arg - ser - val - met -
   - ser - glu - asn - met - ala - ala - ala - ile - arg - arg - val - asn - ser - met - gln - tyr - asp - val - tyr - thr - gln - thr - glu - val - ser - asn - gly -
```

sd   [----- ... NC_000913.ymdF

... ir
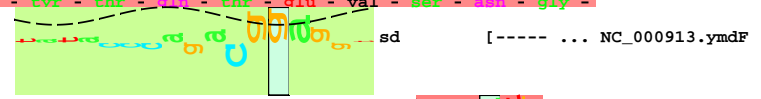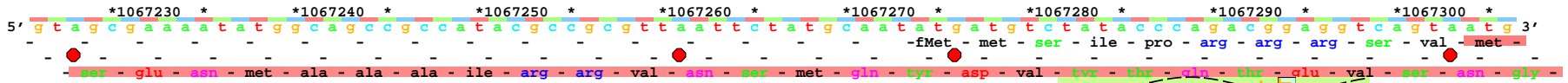
{┈┈┈┈┈┈┈┈┈┈} sd-(10)-ir 1067304 Gap 2.7 bits
|┈┈┈┈┈┈┈┈┈┈| sd-ir 1067304 wrbA_ymdF+ total 9.8

```
        *1067310  *       *1067320
5' gcaaaccatcgaggcgg 3'
     - ala - asn - his - arg - gly -
       -    -    -    -    -
     - lys - pro - ser - arg - arg -
```

... ┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈ ... NC_000913.ymdF

... ir wrbA_ymdF+