piece 1, NC_000913, yddV_yddW+, config: linear, direction: +, begin: 1565135, end: 1565547
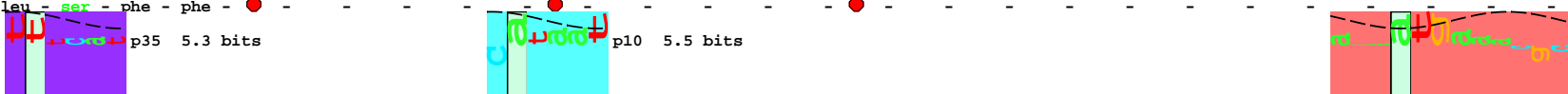
```
        *      *1565140  *      *1565150  *      *1565160  *      *1565170  *      *1565180  *      *1565190  *      *1565200  *      *1565210  *
5' atctttcattcttttaaaatacatctccataattcacacccttataaggctgggaaatcagacggaatcaaaatgaaacgc 3'
   - ile - phe - his - ser - phe - lys - ile - his - leu - his - asn - ser - his - pro - tyr - lys - ala - gly - lys - ser - asp - gly - ile - lys - met - lys - arg -
     - ser - phe - ile - leu - leu - lys - tyr - ile - ser - ile - ile - his - thr - leu - ile - arg - leu - gly - asn - gln - thr - glu - ser - lys -
       - leu - ser - phe - phe -  ●    -     -     -  ●    -     -     -  ●    -     -     -  ●    -     -     -     -  ●    -     -     -     -
```
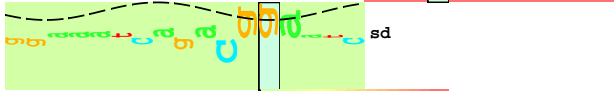
p35 5.3 bits   p10 5.5 bits   ... ir

p35-(24)-p10 1565163 Gap 2.4 bits

sd

sd-(8)-ir 1565207 Gap 2.4 bits

p35-p10 1565163 total 8.4 bits

sd-ir 1565207 yddV_yddW+ total 9.8 bits

p35 5.6 bits   p10 0.9 bits

p35-(24)-p10 1565172 Gap 2.4 bits

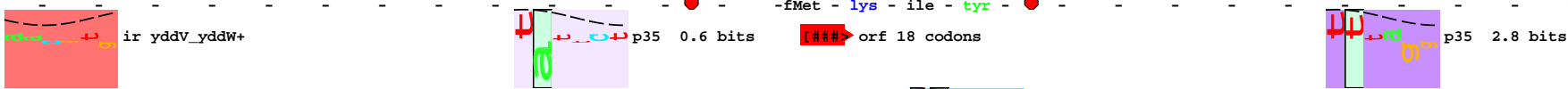p35-p10 1565172 total 4.0 bits

```
        *1565220  *      *1565230  *      *1565240  *      *1565250  *      *1565260  *      *1565270  *      *1565280  *      *1565290  *
5' aacgtgcgagatcgactaactgcaccatattctcctgaaatatgaagatatactgaaaagaaataagcgatttaggacagt 3'
   - asn - val - arg - asp - arg - leu - thr - ala - pro - tyr - ser - pro - glu - ile -  ●    -     -     -     -     -     -     -     -  ●    -     -  ●    -     -
                                                                                -fMet - lys - ile - tyr -  ●    -     -
```

... ir yddV_yddW+   p35 0.6 bits   [###> orf 18 codons   p35 2.8 bits

p10 7.3 bits   p35-(23)-p10 1565310 Gap ...

p35-(21)-p10 1565265 Gap 3.3 bits

p35-p10 1565265 total 4.6 bits

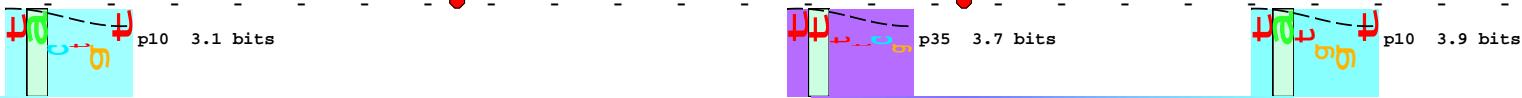|------------------ ... p35-p10 1565310 total 4.5

```
        *1565300  *      *1565310  *      *1565320  *      *1565330  *      *1565340  *      *1565350  *      *1565360  *      *1565370  *
5' ttcaatctacgctactgttcttcagaagagtatagcccatcgtaattattttcggtgacacgaatatcgtatggtttttt 3'
   -     -     -     -     -     -     -     -     -     -     -     -     -  ●    -     -     -     -     -     -  -fMet - val - phe -
     -     -     -     -  ●    -     -     -     -     -     -     -     -     -  -fMet - thr - ala - asn - ile - val - trp - phe - phe -
```

p10 3.1 bits   p35 3.7 bits   p10 3.9 bits

... } p35-(23)-p10 1565310 Gap 1.4 bits   { p35-(22)-p10 1565369 Gap 2.3 bits

... | p35-p10 1565310 total 4.5 bits   p35-p10 1565369 total 5.4 bits

```
        *1565380  *      *1565390  *      *1565400  *      *1565410  *      *1565420  *      *1565430  *      *1565440  *      *1565450  *
5' catattcatacactttttattatggctgtttaactaagtgtggttaatttgacttaagtaacatgattattag 3'
   - his - ile - his - thr - phe - leu - leu - gly - ile - tyr - gly - cys - leu - thr - lys - cys - gly -  ●    -     -     -     -     -     -
     - ile - phe - ile - his - phe - tyr -  ●    -     -  -fMet - ala - val -  ●    -     -  ●    -  -fMet - val - asn - leu - thr -  ●    -     -  ●    -     -  -fMet - ile - ile - ser -
                                          -fMet - trp - leu - ile -  ●    -     -     -     -     -     -     -     -  -fMet -
```

ir yddV_yddW+   p10 4.4 bits

sd   [###> orf 4 codons
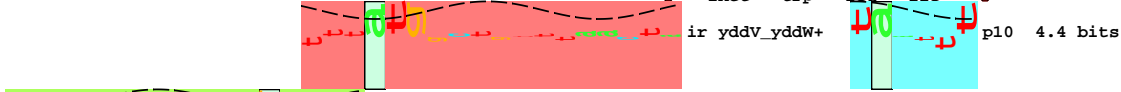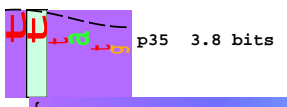
sd-(5)-ir 1565406 Gap 5.4 bits

sd-ir 1565406 yddV_yddW+ total 10.1 bits

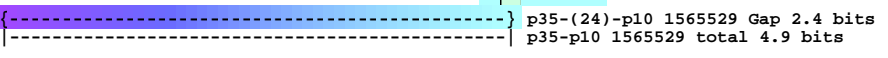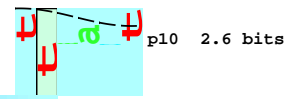p35 4.8 bits   p10 2.6 bits

p35-(23)-p10 1565415 Gap 1.4 bits

p35-p10 1565415 total 5.9 bits

- 2 -

p35 3.8 bits

} p35-(26)-p10 1565430 Gap 3.7 bits
| p35-p10 1565430 total 4.5 bits

*1565460 *   *1565470 *   *1565480 *   *1565490 *   *1565500 *   *1565510 *   *1565520 *   *1565530 *

5' t g g g a t a g t t t a a g a g g g t a a c a a g c c g g t g g g t a a a g c a c c g g c t t g t t a c a a a g t a a g a a t g g g a g t t t a a c t g c c c c a 3'
-    -fMet - leu - gln - ser - lys - asn - gly - ser - leu - thr - ala - pro -
- gly - ile - val - ● -   -   -   -   -   -   -   -   ● -   -   -   -fMet - gly - lys - ala - pro - ala - cys - tyr - lys - val - arg - met - gly - val - ● -   -   -   -   -
- gly - ● -   ● -   -   -   -   -   -   -   -

p35 4.7 bits   <----------------------- ... NC_000913.yddW

p10 2.6 bits

{--} p35-(24)-p10 1565529 Gap 2.4 bits
|--| p35-p10 1565529 total 4.9 bits
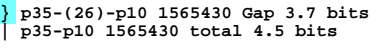
*1565540 *
5' g c g a c t t t 3'
- ala - thr -
-    -   -
-    -   -
... ---------------- ... NC_000913.yddW