piece 1, NC_000913, adiY_adiA+, config: linear, direction: +, begin: 4335923, end: 4336296

```
      *      *4335930   *      *4335940   *      *4335950   *      *4335960   *      *4335970   *      *4335980   *      *4335990   *      *4336000
5' aatacaaggttggtcgctgcaaatcctcatacatgtactcctgagtgcgaataaaagaccagttctcgctaaagcaaagcg 3'
     - asn - thr - arg - leu - val - ala - ala - asn - pro - his - thr - cys - thr - pro - glu - cys - glu -
     - ile - gln - gly - trp - ser - leu - gln - ile - leu - ile - his - val - leu - leu - ser - ala - asn - lys - arg - pro - val - leu - ala - lys - ala - lys - arg -
     - tyr - lys - val - gly - arg - cys - lys - ser - ser - tyr - met - tyr - ser - -fMet - arg - ile - lys - asp - gln - phe - ser - leu - lys - gln - ser - asp -
                                                  ] NC_000913.adiY
```
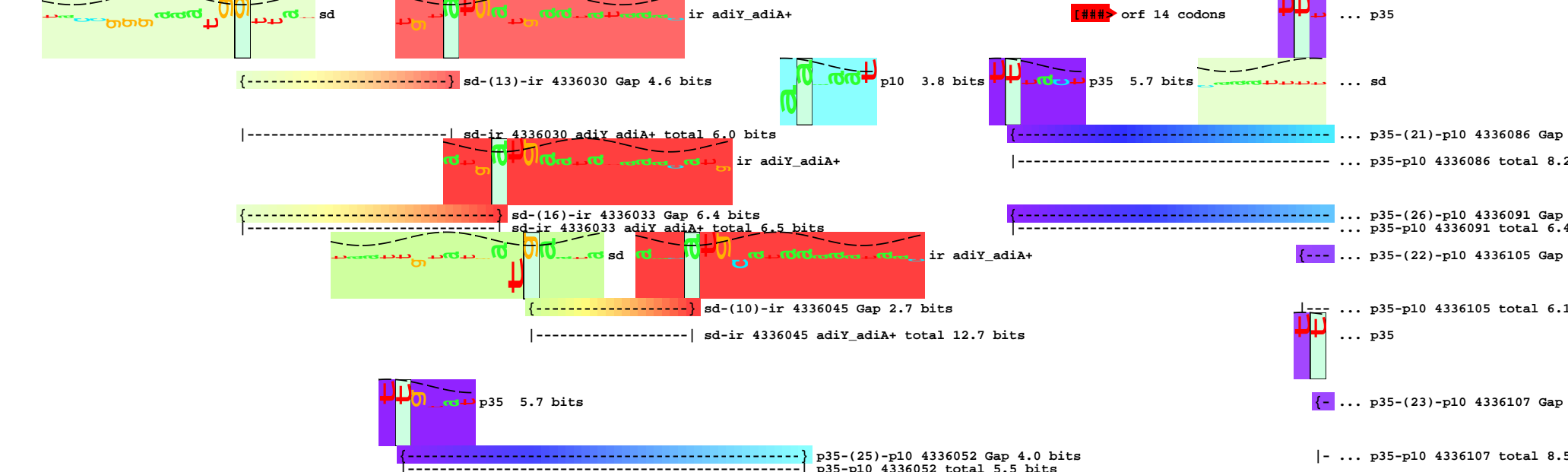
```
      *      *4336010   *      *4336020   *      *4336030   *      *4336040   *      *4336050   *      *4336060   *      *4336070   *      *4336080
5' ataccggaaatggttatataattgtatgatgaatataaacatgcataaaaataacgagtttttactaatagtacaaatttt 3'
     - tyr - arg - glu - met - val - ile - -fMet - tyr - asp - glu - tyr - lys - his - ala -
     - thr - gly - lys - trp - leu - tyr - asn - cys - met - met - asn - ile - asn - met - his - lys - asn - asn - glu - phe - tyr -
```
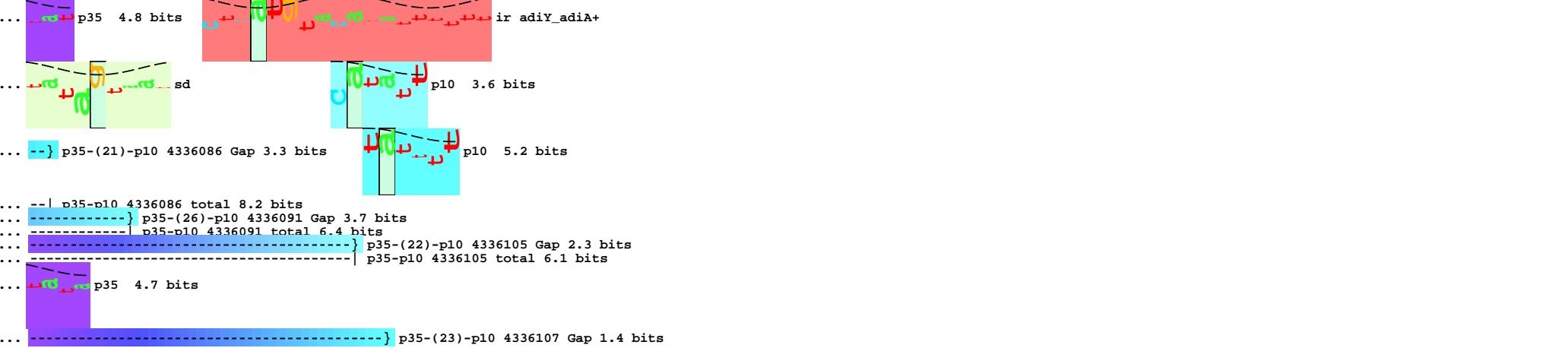
sd
ir adiY_adiA+
[###> orf 14 codons
... p35

sd-(13)-ir 4336030 Gap 4.6 bits
p10 3.8 bits
p35 5.7 bits
... sd

sd-ir 4336030 adiY_adiA+ total 6.0 bits
p35-(21)-p10 4336086 Gap

ir adiY_adiA+
p35-p10 4336086 total 8.2

sd-(16)-ir 4336033 Gap 6.4 bits
sd-ir 4336033 adiY_adiA+ total 6.5 bits
p35-(26)-p10 4336091 Gap
p35-p10 4336091 total 6.4

sd
ir adiY_adiA+
{--- ... p35-(22)-p10 4336105 Gap

sd-(10)-ir 4336045 Gap 2.7 bits
sd-ir 4336045 adiY_adiA+ total 12.7 bits
... p35-p10 4336105 total 6.1
... p35

p35 5.7 bits
{- ... p35-(23)-p10 4336107 Gap

p35-(25)-p10 4336052 Gap 4.0 bits
|- ... p35-p10 4336107 total 8.5
p35-p10 4336052 total 5.5 bits

```
      *      *4336090   *      *4336100   *      *4336110   *      *4336120   *      *4336130   *      *4336140   *      *4336150   *      *4336160
5' tatagtaatttctcatgtacatatttttttacaggataataacaggcaaaaaaagcgcgggtgggcgcgcaaaaag 3'
                                                                              -fMet - gly - pro - arg - lys - lys -
     -fMet - tyr - ile - phe - phe - tyr - arg - ile - asn - asn - arg - gln - lys - lys - ala - arg - gly - gly - ala - ala - gln - lys - val -
```

... p35 4.8 bits
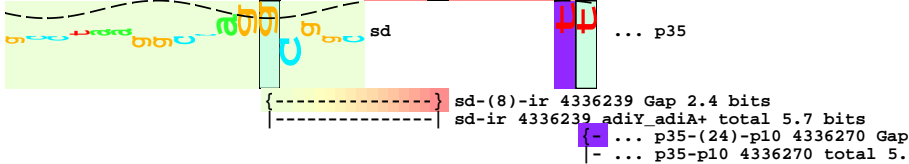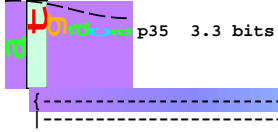ir adiY_adiA+

... sd
p10 3.6 bits

... --} p35-(21)-p10 4336086 Gap 3.3 bits
p10 5.2 bits

... --| p35-p10 4336086 total 8.2 bits
... -----------} p35-(26)-p10 4336091 Gap 3.7 bits
... ------------| p35-p10 4336091 total 6.4 bits
... -------------------} p35-(22)-p10 4336105 Gap 2.3 bits
... --------------------| p35-p10 4336105 total 6.1 bits

... p35 4.7 bits

... ---------------------------------} p35-(23)-p10 4336107 Gap 1.4 bits

```
... ------------------------------------------------| p35-p10 4336107 total 8.5 bits
              {------------------------} sd-(10)-ir 4336099 Gap 2.7 bits
              |------------------------| sd-ir 4336099 adiY_adiA+ total 7.0 bits
```

p10   5.9 bits

p10   4.4 bits
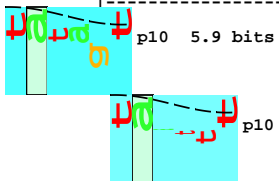
```
         *4336170   *        *4336180   *        *4336190   *        *4336200   *        *4336210   *        *4336220   *        *4336230   *        *4336240   *
5' t a t g a c a t t t t t g t t t g c a g c a a t t t t t a t g a a a a c g t t g c c a t a c t c a a a a g g c c t a a g g c c a g g c g g c g t a a t g t t a t t 3'
   - tyr - asp - ile - phe - val - cys - ser - asn - phe - tyr - glu - asn - val - ala - ile - leu - lys - arg - pro - lys - ala - arg - arg - arg - asn - val - ile -
   -fMet - thr - phe - leu - phe - ala - ala - ile - phe - met - lys - thr - leu - pro - tyr - ser - lys - gly - leu - arg - pro - gly - gly - val - met - leu - phe -
   -       -     -fMet - gln - gln - phe - leu -      -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -
```

[###]> orf 24 codons

p10 3.2 bits

p35 3.3 bits

... ir

... p35
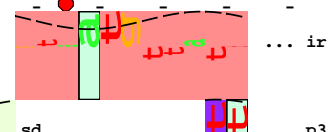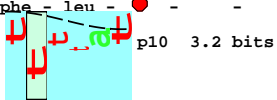
```
   {-------------------------------------------} p35-(23)-p10 4336191 Gap 1.4 bits
   |-------------------------------------------| p35-p10 4336191 total 5.1 bits
```

sd

```
                                                                              {------------} sd-(8)-ir 4336239 Gap 2.4 bits
                                                                              |------------| sd-ir 4336239 adiY_adiA+ total 5.7 bits
                                                                              {- ... p35-(24)-p10 4336270 Gap
                                                                              |- ... p35-p10 4336270 total 5.2
```
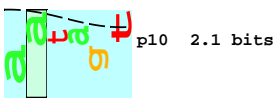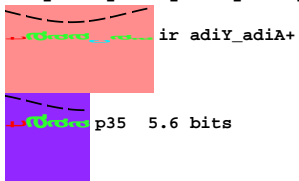
```
         *4336250   *        *4336260   *        *4336270   *        *4336280   *        *4336290   *
5' t a a a c a a t t a c g c c t t c a g c g g a a t a g t g g t t a c g c t t t c a c g c a c a t a a 3'
   - lys - gln - leu - arg - leu - gln - arg - asn - ser - gly - tyr - ala - phe - thr - his - ile -
   -     -     -     -     -     -     -     -     -fMet - val - thr - leu - ser - arg - thr -     -
```

... ir adiY_adiA+

<------------------------------------- ... NC_000913.adiA

... p35 5.6 bits

p10   2.1 bits

```
...  ---------------------------------------} p35-(24)-p10 4336270 Gap 2.4 bits
...  ---------------------------------------| p35-p10 4336270 total 5.2 bits
```