piece 1, NC_000913, ycgF_ycgZ+, config: linear, direction: +, begin: 1214669, end: 1215031

```
        *1214670  *        *1214680  *        *1214690  *        *1214700  *        *1214710  *        *1214720  *        *1214730  *        *1214740  *
5' atggctacgataaataagggtggtaagcattaacaatccagggtaatgggtgaggcgagagtaagacggtaacagacatat 3'
   -fMet - ala - thr - ile - asn - lys - gly - gly - lys - his  -   -   -   -fMet - gly - glu - ala - arg - val - arg - arg  -   -   -   -   -   -
    - trp - leu - arg  - ●   -   -   -fMet - val - ser - ile - asn - asn - pro - gly  -   -fMet - arg - arg - glu  - ●   -   -   -   -   -   -
     - gly - tyr - asp - lys  - ●   -   -   -   -   - ● ------------------------] NC_000913.ycgF
```
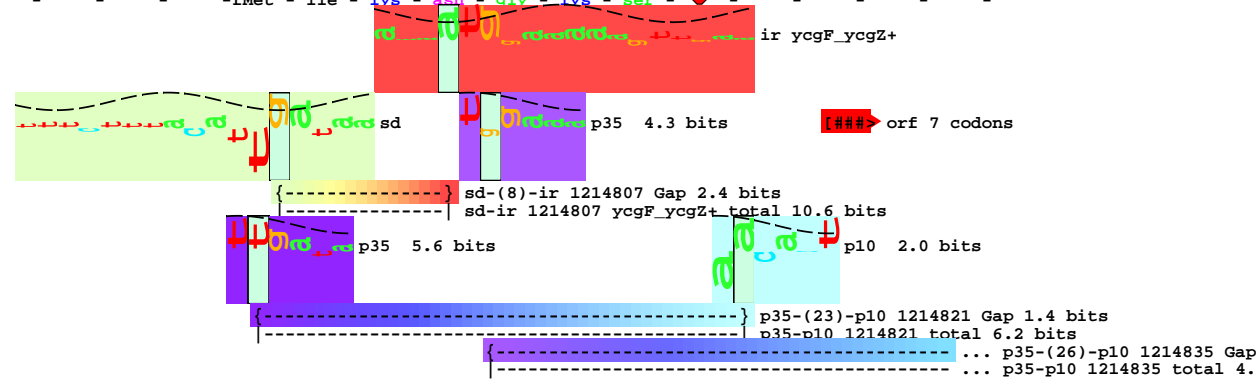
```
        *1214750  *        *1214760  *        *1214770  *        *1214780  *        *1214790  *        *1214800  *        *1214810  *        *1214820  *        *1214830
5' cttcttgtgtctttctttttaataccaaaacataaccgtttctttacattgataaaaatggaaaaagttgaacactagttg 3'
   -   -   -fMet - ser - phe - phe  -   -   -   -   -   -   -   -   -fMet - glu - lys - val - glu - his  -  -fMet -
    -   -fMet - cys - leu - ser - phe - asn - thr - lys - thr  - ●   -   -   -fMet - asn - thr - ser - trp
     -   -   -   -   -   -   -   -fMet - ile - lys - asn - gly - lys - ser  -
```

ir ycgF_ycgZ+

sd   p35   4.3 bits

[###]> orf 7 codons

{------------} sd-(8)-ir 1214807 Gap 2.4 bits
|------------| sd-ir 1214807 ycgF_ycgZ+ total 10.6 bits

p35 5.6 bits   p10   2.0 bits

{---------------------------} p35-(23)-p10 1214821 Gap 1.4 bits
|---------------------------| p35-p10 1214821 total 6.2 bits
{----------------------------------- ... p35-(26)-p10 1214835 Gap
|----------------------------------- ... p35-p10 1214835 total 4.4

```
        *          *1214840  *        *1214850  *        *1214860  *        *1214870  *        *1214880  *        *1214890  *        *1214900  *        *1214910
5' gcgaaaaatcttgtatagattgtcagttaaatgatgcaatatgtttatcataacacattgtttatatgcattagcacta 3'
   - ala - lys - asn - leu - val  - ●   -   -   -fMet - met - gln - tyr - val - leu - ser  -   -   -   -   -
    - arg - lys - ile - leu - tyr - arg - leu - ser - val - lys  -   -fMet - phe - tyr - his - asn - thr - leu - phe - tyr - met - his  -   -   -
```
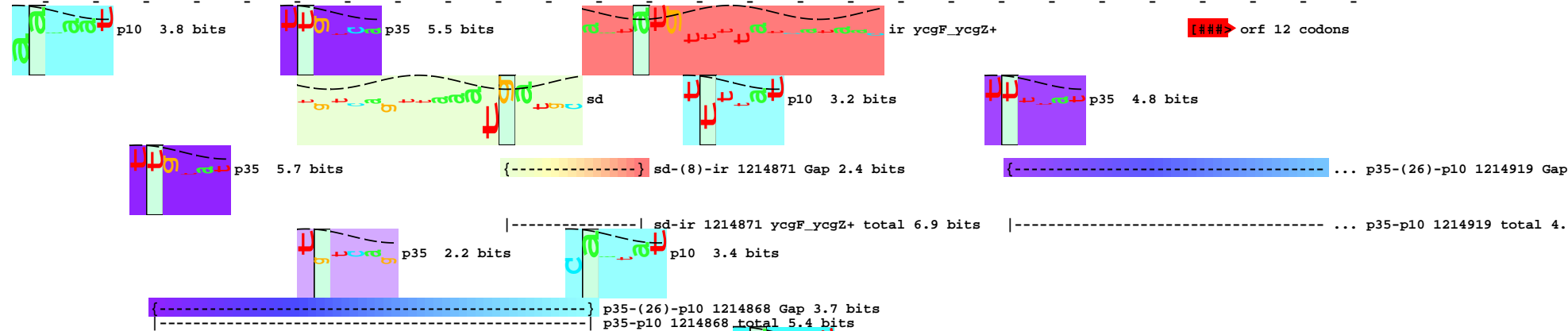
p10   3.8 bits   p35   5.5 bits   -fMet ... ir ycgF_ycgZ+   [###]> orf 12 codons

sd   p10   3.2 bits   p35   4.8 bits

p35   5.7 bits   {--------} sd-(8)-ir 1214871 Gap 2.4 bits   {----------------------- ... p35-(26)-p10 1214919 Gap

|------------| sd-ir 1214871 ycgF_ycgZ+ total 6.9 bits |----------------------------------- ... p35-p10 1214919 total 4.9

p35   2.2 bits   p10   3.4 bits

{-------------------------} p35-(26)-p10 1214868 Gap 3.7 bits
|-------------------------| p35-p10 1214868 total 5.4 bits

... -------} p35-(26)-p10 1214835 Gap 3.7 bits   p10   6.3 bits

... -------| p35-p10 1214835 total 4.4 bits {-------------------------------} p35-(24)-p10 1214875 Gap 2.4 bits
                                           |-------------------------------| p35-p10 1214875 total 6.3 bits
                                           {--------------------------} p35-(26)-p10 1214878 Gap 3.7 bits
                                           |--------------------------| p35-p10 1214878 total 4.8 bits

```
        *          *1214920  *        *1214930  *        *1214940  *        *1214950  *        *1214960  *        *1214970  *        *1214980  *        *1214990
5' attgcaaaaaattaatttatcattctgtacacatatttcgtacaagtttgctattgttacttcacttaacattgattaaca 3'
   -fMet - gln - lys - ile - asn - leu - ser - phe - cys - thr - his - ile - ser - tyr - lys - phe - ala - ile - val - thr - ser - leu - asn - ile - asp  - ●   -   -   -
    -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - leu - leu - leu - leu - his - leu - thr - leu - ile - asn - ile -
```

p10   3.8 bits   p35   3.4 bits   p10   4.6 bits   ... p10

p35-(26)-p10 1214964 Gap 3.7 bits

p35 5.7 bits

... p35-(26)-p10 1214919 Gap 3.7 bits

p35-p10 1214964 total 4.3 bits

{-------------- ... p35-(25)-p10 1215009 Gap

... ------------| p35-p10 1214919 total 4.9 bits

p35 4.7 bits

|-------------- ... p35-p10 1215009 total 6.2

p35-(23)-p10 1214989 Gap 1.4 bits

p35-p10 1214989 total 8.8 bits

```
        *      *1215000  *     *1215010  *     *1215020  *     *1215030
5' t t t t t a a c a g a g g c g t a g c a t g c a t c a a a a t t c a g t g a c 3'
    -     -     -     -     -     -     -     -     -     -     -     -     -     -
    -     -     -  ●  -     -     -     -     fMet - his - gln - asn - ser - val -
      - phe - asn - arg - gly - val - ala - cys - ile - lys - ile - gln -  ●  -
```

... p10 5.6 bits

[------------------------------------- ... NC_000913.ycgZ

p35 4.1 bits

ir ycgF_ycgZ+

... p35-(25)-p10 1215009 Gap 4.0 bits

... p35-p10 1215009 total 6.2 bits

sd

p10 4.7 bits

{-------------} sd-(7)-ir 1215012 Gap 3.7 bits

|-------------| sd-ir 1215012 ycgF_ycgZ+ total 11.4 bits

p10 4.5 bits

{-------------------------------} p35-(23)-p10 1215019 Gap 1.4 bits

|-------------------------------| p35-p10 1215019 total 7.4 bits