piece 1, NC_000913, yhbX_leuU+, config: linear, direction: +, begin: 3319606, end: 3320113

```
        *3319610  *        *3319620  *        *3319630  *        *3319640  *        *3319650  *        *3319660  *        *3319670  *        *3319680  *
5' agttctagcaaatttgttgaatactgtcatccagaaatccaagttcacaaccaatataaacaattatcaacaatgtttaat 3'
   - ser - ser - ser - lys - phe - val - glu - tyr - cys - his - pro - glu - ile - gln - val - his - asn - gln - tyr - lys - gln - leu - ser - thr - met - phe - asn -
   - val - leu - ala - asn - leu - leu - asn - thr - val - ile - gln - lys - ser - lys - phe - thr - thr - asn - ile - asn - asn - tyr - gln - gln - cys - leu - ile -
   - phe -                      - glu -                                                                            - lys -                                          -
```
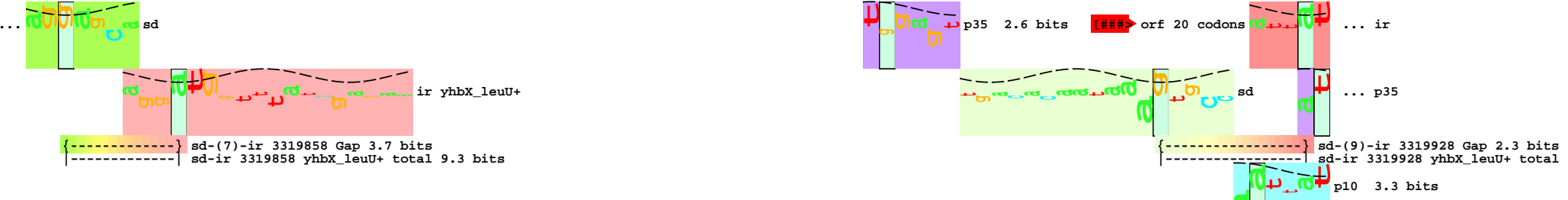
... ---] NC_000913.yhbX   p10   0.9 bits   p35   1.4 bits   ... p10

p35   6.5 bits   {--} p35-(23)-p10 3319684 Gap 1.4 bits

{--} p35-(23)-p10 3319646 Gap 1.4 bits
|--| p35-p10 3319646 total 6.0 bits |--| p35-p10 3319684 total 4.4 bits
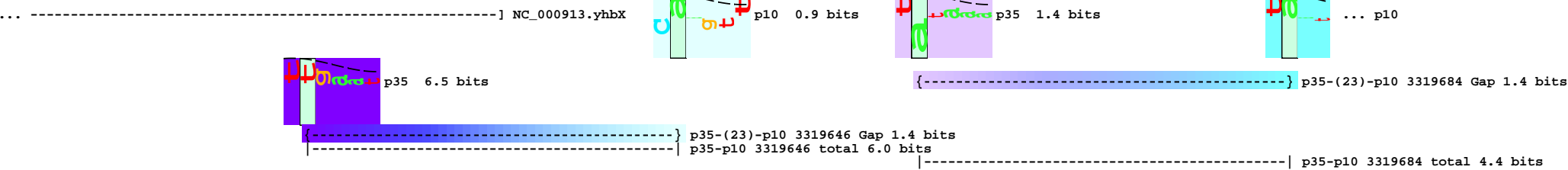
```
        *3319690  *        *3319700  *        *3319710  *        *3319720  *        *3319730  *        *3319740  *        *3319750  *        *3319760  *
5' tttatatcagacatgtttttcaactctgatccatatcagaacgaaacactgttagtttttttctttttaaatgatgcggcca 3'
   - phe - ile - ser - asp - met - phe - phe - asn - ser - asp - pro - tyr - gln - asn - glu - thr - leu - leu - val - phe - ser - phe - -fMet - met - arg - pro -
   - leu - tyr - gln - thr - cys - phe - ser - thr - leu - ile - his - ile - arg - thr - lys - his - cys -
```

... p10   4.4 bits

```
        *3319770  *        *3319780  *        *3319790  *        *3319800  *        *3319810  *        *3319820  *        *3319830  *        *3319840  *
5' ttgcgttctcagtaattaaataacattatcaatgcgtctctaaacattacgcagaacgtagccatcagtcgttatactgac 3'
   - leu - arg - ser - gln -                                    -fMet - arg - leu -
```

p35   4.4 bits   p10   4.2 bits   ... sd

{--} p35-(23)-p10 3319792 Gap 1.4 bits
|--| p35-p10 3319792 total 7.1 bits

```
        *3319850  *        *3319860  *        *3319870  *        *3319880  *        *3319890  *        *3319900  *        *3319910  *        *3319920  *
5' aggagcaggatggtttatcgagaagtaaacatatccgtattcgtaccggaactggagttgacacaataaagtgccaattat 3'
                   -fMet - val - tyr - arg - glu - val - asn - ile - ser - val - phe - val - pro - glu - leu - glu - leu - thr - gln -
                                                                                                                  -fMet - pro - ile - met
```

... sd   p35   2.6 bits   [###> orf 20 codons   ... ir

ir yhbX_leuU+   sd   ... p35

{-------} sd-(7)-ir 3319858 Gap 3.7 bits   {---------} sd-(9)-ir 3319928 Gap 2.3 bits
|-------| sd-ir 3319858 yhbX_leuU+ total 9.3 bits |---------| sd-ir 3319928 yhbX_leuU+ total 6

p10   3.3 bits

{----------------------------------} p35-(23)-p10 3319925 Gap 1.4 bits
|----------------------------------| p35-p10 3319925 total 4.5 bits
                                                  {- ... p35-(22)-p10 3319951 Gap
                                                  |- ... p35-p10 3319951 total 4.2

```
        *3319930  *        *3319940  *        *3319950  *        *3319960  *        *3319970  *        *3319980  *        *3319990  *        *3320000  *        *3320010
5' gtcagtagaaggaaaaatttataactaaggcgtaccggcaccatcgtttcaaggtaccagctacgagtaaagcaactgga 3'
       - ser - val - glu - gly - lys - asn - leu -
```

... ir yhbX_leuU+   [###> orf 9 codons

... p35 2.4 bits

p10 4.1 bits
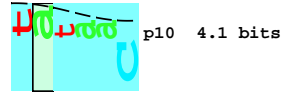
... } p35-(22)-p10 3319951 Gap 2.3 bits
... | p35-p10 3319951 total 4.2 bits

```
           *        *3320020  *        *3320030  *        *3320040  *        *3320050  *        *3320060  *        *3320070  *        *3320080  *        *3320090
    5' c g a g a t a c a g a t a c c t g a c a a c c a t t c c t c a g a c c a g g a c c a a a a c g a a a a a a g a c g c t t t t c a g c g t c t c t t t t c t g g a a 3'
       -     -     -     -     -     -  ●  -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -
          -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -

           *        *3320100  *        *3320110
    5' t t t g g t a c c g a g g a c g g g a c t t 3'
       -     -     -     -     -     -     -     -
        -fMet - val - pro - arg - thr - gly - leu -
         -     -     -     -     -     -     -
```