piece 1, NC_000913, yoaB_yoaC-, config: linear, direction: -, begin: 1892126, end: 1891716

```
         *       *1892120  *       *1892110  *       *1892100  *       *1892090  *       *1892080  *       *1892070  *       *1892060  *       *1892050  *
5' gataaggctatatatgaccttaatttgcatctaatatcaaagggattataacgatatggcacgagttaacctgttgacatt 3'
   - asp - lys - ala - ile - tyr - asp - leu - asn - leu - his - leu - ile - ser - lys - gly - leu -  ●  -  -  -  - fMet - ala - arg - val - asn - leu - leu - thr - phe -
   -  ●  - ile - arg - leu - tyr - met - thr - leu - ile - cys - ile -  ●  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  ●  -  -  -  -  -
```
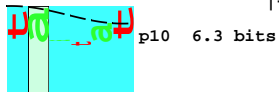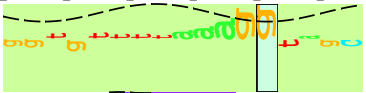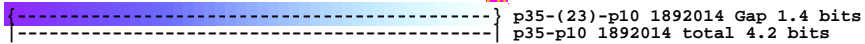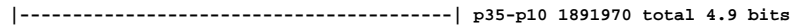
ir yoaB_yoaC-

... ---] NC_000913.yoaC

p35   0.6 bits

sd

p35   6.2 bits

{---------------------} sd-(12)-ir 1892071 Gap 4.0 bits

|---------------------| sd-ir 1892071 yoaB_yoaC- total 10.9 bits

p10   6.3 bits   p10   4.1 bits

{-----------------------------} p35-(23)-p10 1892094 Gap 1.4 bits
|-----------------------------| p35-p10 1892094 total 5.5 bits
{-----------------------------} p35-(22)-p10 1892079 Gap 2.3 bits
|-----------------------------| p35-p10 1892079 total 7.9 bits
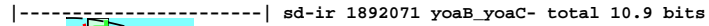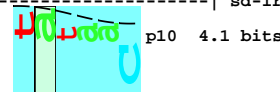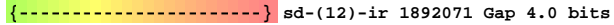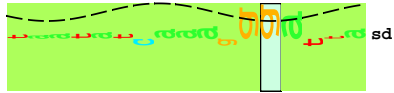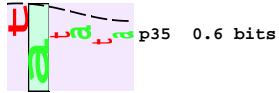
```
         *       *1892040  *       *1892030  *       *1892020  *       *1892010  *       *1892000  *       *1891990  *       *1891980  *       *1891970  *
5' caggtgttttaaaggtagcagctcatggtgtgttatccagtaagatggagaaatttaacggtcagtccgcacgctataacc 3'
   -     - fMet - phe -  -  ●  -  -     ●  -  -     -     - fMet - val - cys - tyr - pro - val - arg - trp - arg - asn - leu - thr - val - ser - pro - his - ala - ile - thr -
   - arg - cys - phe - lys - gly - ser - ser - ser - trp - cys - val - ile - gln -  ●  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  ●  -  -  -  -
   -     - fMet - leu - ser - ser - lys - met - glu - lys - phe - asn - gly - gln - ser - ala - arg - tyr - asn - gln -
```

sd   [###> orf 23 codons   p35   4.1 bits   p10   4.1 bits

p35   5.6 bits

ir yoaB_yoaC-

{-----------------------------------} p35-(21)-p10 1891970 Gap 3.3 bits

{---------------} sd-(10)-ir 1892021 Gap 2.7 bits
|---------------| sd-ir 1892021 voaB voaC- total 5.2 bits |-----------------------------------| p35-p10 1891970 total 4.9 bits

p10   0.1 bits

{-----------------------------} p35-(23)-p10 1892014 Gap 1.4 bits
|-----------------------------| p35-p10 1892014 total 4.2 bits
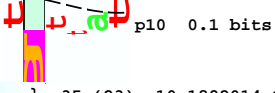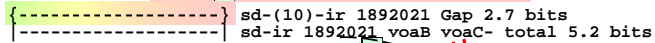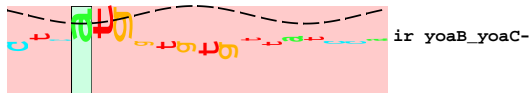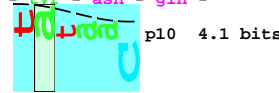
```
         *       *1891960  *       *1891950  *       *1891940  *       *1891930  *       *1891920  *       *1891910  *       *1891900  *       *1891890  *
5' agattgttcagctaagaaagaaaaccagagttgctaatcaaagggcgaacacaacggcatgtttatgtttatttatatagt 3'
   - arg - leu - phe - ser -  ●  -  -  -  -  -  -  - fMet - leu - ile - lys - gly - arg - thr - gln - arg - fMet - phe - met - phe - ile - tyr - ile - val -
   - ile - val - gln - leu - arg - lys - lys - thr - arg - val - ala - asn - gln - arg - ala - asn - thr - thr - ala - cys - leu - cys - leu - phe - ile -  ●  -  -  -
```

[###> orf 24 codons   sd   ir yoaB_yoaC-

{-----------------} sd-(14)-ir 1891906 Gap 4.9 bits
|-----------------| sd-ir 1891906 voaB voaC- total 7.4 bits

ir yoaB_yoaC-

sd{------------------------------ ... p35-(23)-p10 1891879 Gap

{-------------} sd-(8)-ir 1891900 Gap 2.4 bits
|-------------| sd-ir 1891900 yoaB_yoaC- total 6.2 bits

p35   3.8 bits

... p35-p10 1891879 total 5.6

p35   4.7 bits

... p35-(22)-p10 1891870 Gap
... p35-p10 1891870 total 10.
... p35-(23)-p10 1891869 Gap
... p35-p10 1891869 total 5.2

```
         *1891880  *        *1891870  *        *1891860  *        *1891850  *        *1891840  *        *1891830  *        *1891820  *        *1891810  *
5' t a g t t t t a t a g a t a a a a t t g a a a t t a t a a a t a t a a a t a a t g a a t t a g c a g a a g c a t c a a c g t a a t a t c t t a t t c t c t g g t 3'
```
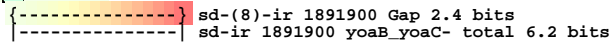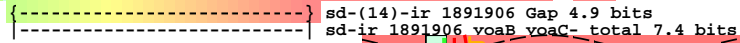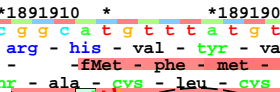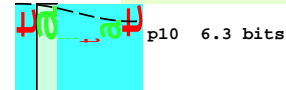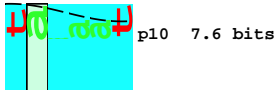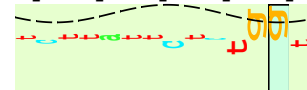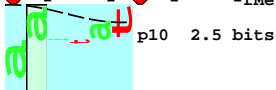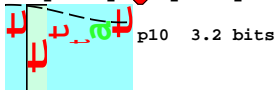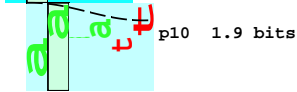
ser - phe - ile - asp - lys - ile - glu - ile - ile - asn - ile - asn - asn - glu - leu - ala - glu - ala - ser - thr - val - ile - ser - tyr - ser - leu - val

-fMet - lys - leu -   -fMet - asn

p10   3.2 bits

... sd

p10   2.5 bits

p10   7.6 bits

p35   3.5 bits

p10   6.3 bits

{--- ... sd-(8)-ir 1891796 Gap

p10   1.9 bits

|--- ... sd-ir 1891796 yoaB_yoaC-

p35   4.7 bits

{---} p35-(24)-p10 1891820 Gap 2.4 bits

... } p35-(23)-p10 1891879 Gap 1.4 bits

|---| p35-p10 1891820 total 7.3 bits

... p35

{--} p35-(23)-p10 1891855 Gap 1.4 bits

{----- ... p35-(26)-p10 1891779 Gap
|----- ... p35-p10 1891779 total 5.9
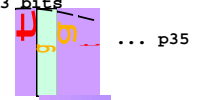
|---| p35-p10 1891855 total 5.8 bits

... -------| p35-p10 1891879 total 5.6 bits

... -------------------} p35-(22)-p10 1891870 Gap 2.3 bits
... ----------------------| p35-p10 1891870 total 10.0 bits
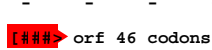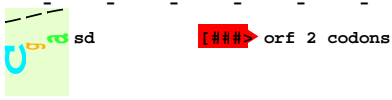... -------------------} p35-(23)-p10 1891869 Gap 1.4 bits
... ----------------------| p35-p10 1891869 total 5.2 bits

```
         *1891800  *        *1891790  *        *1891780  *        *1891770  *        *1891760  *        *1891750  *        *1891740  *        *1891730  *
5' c g a t t t a t g t a a a a c c g a c c a g t a t t a t c g a t a a a t t a t c g t c t g a c t t a t t t g c t t c g a t a a a g c t t a c a c c g c a g c c a 3'
```
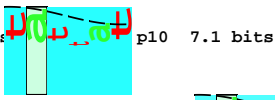
-fMet -

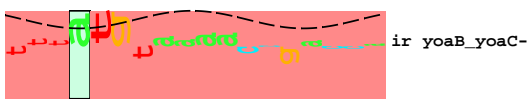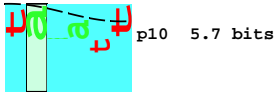asp - leu - cys - lys - thr - asp - gln - tyr - tyr - arg -   -fMet - leu - arg

... sd
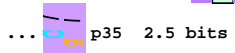
[###> orf 2 codons

[###> orf 46 codons

<-------------------------- ... NC_000913.yoaB

... -------------} sd-(8)-ir 1891796 Gap 2.4 bits

p10   7.1 bits

... ------------| sd-ir 1891796 yoaB_yoaC- total 6.4 bits

p10   5.7 bits

ir yoaB_yoaC-

p35 3.4 bits

... p35 2.5 bits

... --} p35-(26)-p10 1891779 Gap 3.7 bits
... --| p35-p10 1891779 total 5.9 bits
    {---} p35-(24)-p10 1891770 Gap 2.4 bits
    |---| p35-p10 1891770 total 6.7 bits
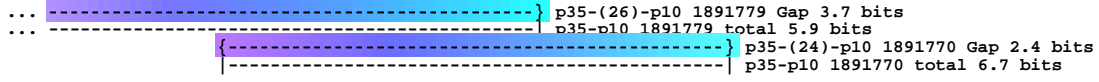
     *1891720
 5' c a a t c t 3'
    -   -   -
      -   -
      -   -
... ------------ ... NC_000913.yoaB