piece 1, NC_000913, yjfY_rpsF+, config: linear, direction: +, begin: 4422785, end: 4423160

```
        *       *4422790  *       *4422800  *       *4422810  *       *4422820  *       *4422830  *       *4422840  *       *4422850  *       *4422860  *
5' a g c c a g a a g g g c t a a a a c a c g a c t g a a c a t a g a t a c c t c c t c g a c g g c t g a c t t t g t g t g c t c t c c t c t g t g a t g a t c t t c 3'
   - ala - arg - arg - ala - lys - thr - arg - leu - asn - ile - asp - thr - ser - ser - thr - ala - asp - phe - val - cys - ser - pro - leu -
     - pro - glu - gly - leu - lys - his - asp -                                              -fMet - cys - ala - leu - leu - cys - asp - asp - leu - leu -
   ...----------------------------------------------------] NC_000913.yjfY
```
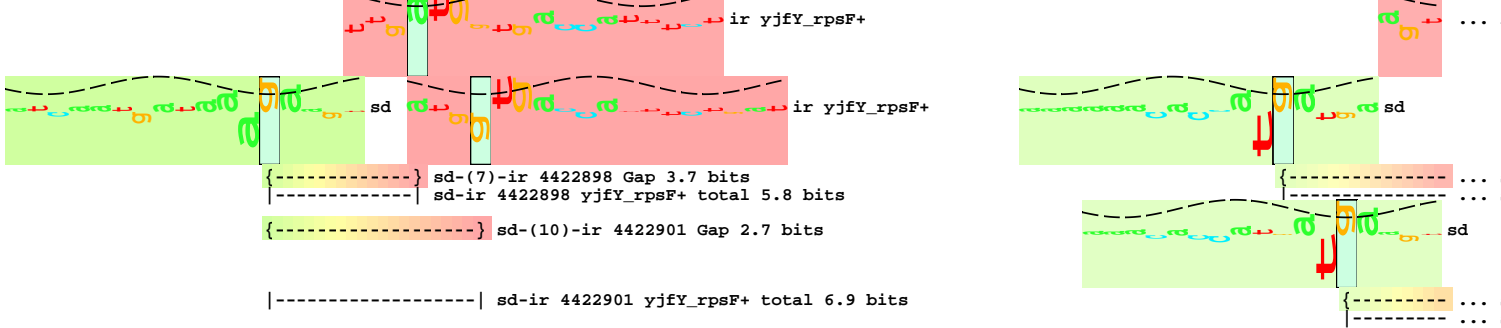
```
        *       *4422870  *       *4422880  *       *4422890  *       *4422900  *       *4422910  *       *4422920  *       *4422930  *       *4422940  *
5' t g a t t t a a t t t a a t c a a t g a t a a a g a a g t t g a t g g t g a c c a t t t c t g a t g c a g t t g t t c a a a a a a a c a c c a t g a t g a a g t 3'
   - ile -           -fMet - ile - lys - lys -            -fMet - gln - leu - phe - lys - lys - thr - pro -
                                    - leu - met - val - thr - ile - ser - asp - ala - val - val - gln - lys - asn - thr - met - met - lys - cys -     -fMet -
```

ir yjfY_rpsF+   ... ir

sd   ir yjfY_rpsF+   sd

{------------------} sd-(7)-ir 4422898 Gap 3.7 bits
|------------------| sd-ir 4422898 yjfY_rpsF+ total 5.8 bits

{--------------------} sd-(10)-ir 4422901 Gap 2.7 bits

|--------------------| sd-ir 4422901 yjfY_rpsF+ total 6.9 bits

{------------------} ... sd-(8)-ir 4422947 Gap
|------------------| ... sd-ir 4422947 yjfY_rpsF+

sd

{--------} ... sd-(8)-ir 4422950 Gap
|--------| ... sd-ir 4422950 yjfY_rpsF+

```
        *       *4422950  *       *4422960  *       *4422970  *       *4422980  *       *4422990  *       *4423000  *       *4423010  *       *4423020  *
5' g t g a t g a a c t t c a a a t c a g c g t g t t a g a g g t t a a t t g c g a a a g g g g a g a t t t a t t t c g g c t c t g c c c t t g a g t t t a g c g a g 3'
  -fMet - met - asn - phe - lys - ser - ala - cys -                    -fMet - arg - lys - gly - arg - phe - ile - ser - ala - leu - pro - leu - ser - leu - ala - arg -
   - asp - glu - leu - gln - ile - ser - val - leu - glu - val - asn - cys - glu - arg - gly - asp - leu - phe - arg - leu - cys - pro -
```

ir yjfY_rpsF+   [###> orf 9 codons   [###> orf 40 codons

ir yjfY_rpsF+   p35   4.7 bits

...} sd-(8)-ir 4422947 Gap 2.4 bits
... | sd-ir 4422947 yjfY_rpsF+ total 5.2 bits

{--------------------} ... p35-(23)-p10 4423038 Gap
|--------------------| ... p35-p10 4423038 total 8.9
{--------------------} ... p35-(26)-p10 4423041 Gap
|--------------------| ... p35-p10 4423041 total 5.1

...------} sd-(8)-ir 4422950 Gap 2.4 bits
...------| sd-ir 4422950 yjfY_rpsF+ total 6.8 bits

```
        *       *4423030  *       *4423040  *       *4423050  *       *4423060  *       *4423070  *       *4423080  *       *4423090  *       *4423100  *
5' g c a t a c a a g t a c t a t a a c g c g t c a t t t t t c a g c c g a c c t t t a a c a c g t t c c t t g c t c c c c g g g a t t c g g c t g a c c c a g a c 3'
   - his - thr - ser - thr - ile - thr - arg - his - phe - ser - ala - asp - leu -            -fMet - pro - pro - arg - asp - ser - ala - asp - pro - asp -
```

p10   5.6 bits

p10   4.1 bits

...{--------------------} p35-(23)-p10 4423038 Gap 1.4 bits
...|--------------------| p35-p10 4423038 total 8.9 bits
...{--------------------} p35-(26)-p10 4423041 Gap 3.7 bits
...|--------------------| p35-p10 4423041 total 5.1 bits

```
        *       *4423110  *       *4423120  *       *4423130  *       *4423140  *       *4423150  *       *4423160
5' a g g a g g c t g a a t a a t c c g t a a g g a g c a a t t c g a t g c g t c a t t a c g a a a t c g t 3'
   - arg - arg - leu - asn - asn - pro -
                                              -fMet - arg - his - tyr - glu - ile -
```

sd   [--- ... NC_000913.rpsF

ir yjfY_rpsF+

sd-(10)-ir 4423141 Gap 2.7 bits

sd-ir 4423141 yjfY_rpsF+ total 10.3 bits