piece 1, NC_000913, yjiH_kptA+, config: linear, direction: +, begin: 4558674, end: 4558972

```
        *      *4558680  *      *4558690  *      *4558700  *      *4558710  *      *4558720  *      *4558730  *      *4558740  *      *4558750
5' c c c g g c t a c a g c a t c c c c t t g t t g t g t c a t a a c a a t c c c c a t t g t t t t t t g t g t t t g t g t g t t g c t t g a g c c a g g a a a a t 3'
    - pro - gly - tyr - ser - ile - pro - leu - leu - cys - his - asn - asn - pro - his - cys - phe - phe - val - phe - val - cys - cys - leu - ser - gln - glu - asn -
      - pro - ala - thr - ala - ser - pro - cys - cys - val - ile - thr - ile - pro - ile - val - phe - leu - cys - leu - cys - val - ala -  ●  -     -     -     -
          - arg - leu - gln - his - pro - leu - val - val - ser -     -     -     -     -     - fMet - phe - phe - cys - val - cys - val - leu - leu - glu - pro - gly - lys - phe -
      ---------------------------------------------------------------] NC_000913.yjiH
```
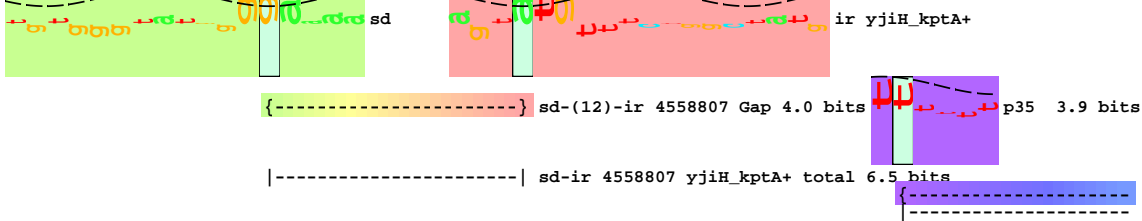
```
        *      *4558760  *      *4558770  *      *4558780  *      *4558790  *      *4558800  *      *4558810  *      *4558820  *      *4558830  *
5' t c c t g g a a c t g a a a a c c t t a t c a g c c a t g t g g g t a t g g g g a a a a t g c a a g t a t g t t t c t g g c t a t g c g t t t t t t g c a t a g 3'
    - ser - trp - asn -  ●  -     -     -     -     -     - fMet - trp - val - trp - gly - lys - cys - lys - tyr - val - ser - gly - tyr - ala - phe - phe - ala -  ●  -
      - leu - glu - leu - lys - asn - leu - ile - ser - his - val - gly - met - gly - lys - met - gln -     - fMet - cys - phe - trp - leu - cys - val - phe - cys - ile - ala -
```

sd   ir yjiH_kptA+

{----------------------} sd-(12)-ir 4558807 Gap 4.0 bits   p35   3.9 bits

|----------------------| sd-ir 4558807 yjiH_kptA+ total 6.5 bits

{------------------ ... p35-(21)-p10 4558846 Gap
|------------------ ... p35-p10 4558846 total 4.5

```
        *4558840  *      *4558850  *      *4558860  *      *4558870  *      *4558880  *      *4558890  *      *4558900  *      *4558910  *
5' c g g a a a a t t a c g c t g t g t g g a a a a g g c t c t g c g c a g g a t t g a g t t g c a g a a a a t t c a t a a a c c a a g t g a c a a t g a c a t c a 3'
    -     - fMet - trp - lys - arg - leu - cys - ala - gly - leu - ser - cys - arg - lys - phe - ile - asn - gln - val - thr - met - thr - ser -
      - glu - lys - ile - thr - leu - cys - gly - lys - gly - ser - ala - gln - asp -  ●  - leu - gln - lys - ile - his - lys - pro - ser - asp - asn - asp - ile - ser -
          - glu - lys - leu - arg - cys - val - glu - lys - ala - leu - arg - arg - ile - glu - leu - gln - lys - ile - his - lys - pro - ser - asp - asn - asp - ile - ser -
```
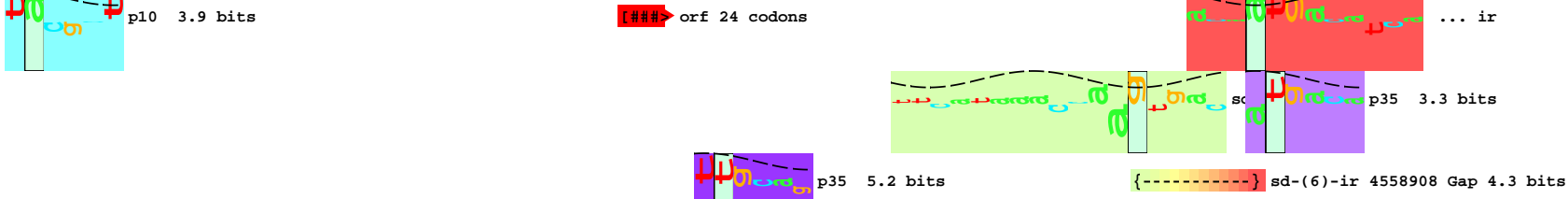
p10   3.9 bits   [###> orf 24 codons   ... ir

sd   p35   3.3 bits

p35   5.2 bits   {----------------------} sd-(6)-ir 4558908 Gap 4.3 bits

... {------------------} p35-(21)-p10 4558846 Gap 3.3 bits |------------| sd-ir 4558908 yjiH_kptA+ total 8.8 bits

... ------------------| p35-p10 4558846 total 4.5 bits   p10   2.9 bits

{------------------------------} p35-(24)-p10 4558905 Gap 2.4 bits
|------------------------------| p35-p10 4558905 total 5.6 bits
                                     {-------------- ... p35-(22)-p10 4558931 Gap
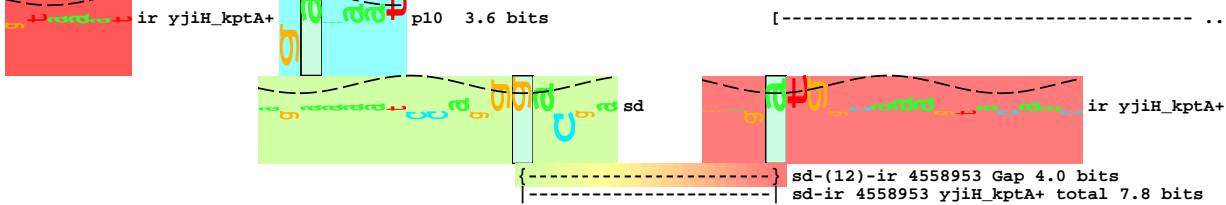 |-------------- ... p35-p10 4558931 total 4.5

```
        *4558920  *      *4558930  *      *4558940  *      *4558950  *      *4558960  *      *4558970
5' g t a a a t a a a a a c a g a a a a t c c a g a c g a c g a a a c a g a t g g c a a a g t a c a a c g a a a a 3'
    - val - asn - lys - asn - arg - lys - ser - arg - asp - glu - asn - glu - met - ala - lys - tyr - asn - glu -
      -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -
          - lys -     -  ●  -     -     -     -     -     -     -     -     -     -     -     -     -     -
```

... ir yjiH_kptA+   p10   3.6 bits   [--------------------------- ... NC_000913.kptA

sd

ir yjiH_kptA+

{----------------------} sd-(12)-ir 4558953 Gap 4.0 bits
|----------------------| sd-ir 4558953 yjiH_kptA+ total 7.8 bits

... {------------------------} p35-(22)-p10 4558931 Gap 2.3 bits
... ------------------------| p35-p10 4558931 total 4.5 bits