- 1 -

piece 1, NC_000913, clpX_lon-, config: linear, direction: -, begin: 458141, end: 457905

```
      *458140    *       *458130    *       *458120    *       *458110    *       *458100    *       *458090    *       *458080    *       *458070    *
5' t t c a a t g c g t t c a g a a c g c t c a g g a t t c a t a g a g c t c t c t c t t a g t t t a a t t t c c g c c a g g t a a t c a g a t g a c a c g a c t g t 3'
   - phe - asn - ala - phe - arg - thr - leu - arg - ile - his - arg - ala - leu - ser -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet -
    - ser - met - arg - ser - glu - arg - ser - gly - phe - ile - glu - leu - ser - leu - ser - leu - ile - ser - ala - arg -   -   -   -   -   -fMet - thr - arg - leu - cys -
     - gln - cys - val - gln - asn - ala - gln - asp - ser -   -   -   -   -   -   -   -   -   -   -   -   -   -
```
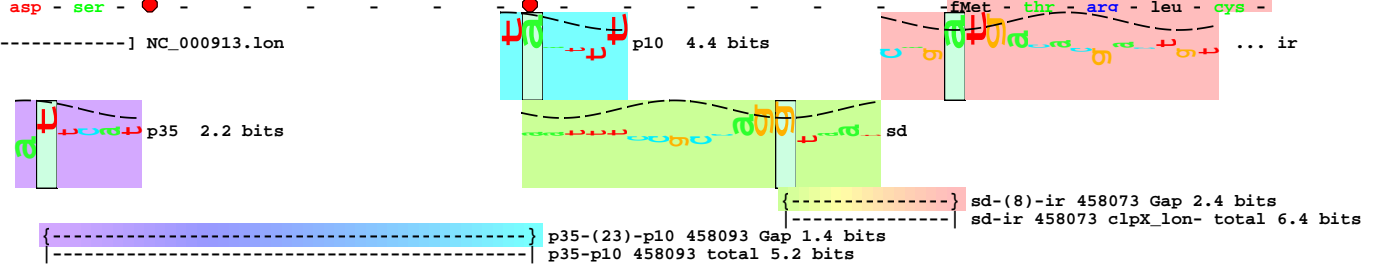
... --] NC_000913.lon

p10   4.4 bits

p35   2.2 bits

sd

{---------------} sd-(8)-ir 458073 Gap 2.4 bits
---------------| sd-ir 458073 clpX_lon- total 6.4 bits

{---} p35-(23)-p10 458093 Gap 1.4 bits
|--| p35-p10 458093 total 5.2 bits

```
      *458060    *       *458050    *       *458040    *       *458030    *       *458020    *       *458010    *       *458000    *       *457990    *       *457980
5' g c t t c a c g c c a t c t a t t a a c a t g t a c g t c a g t a t a t g g g g a t g t t t c c c c c a c a t t c a a c g c c g a g a a t a g a g g a a a a a t t 3'
   - leu - his - ala - ile - tyr -   -   -   -   -   -   -fMet - gly - met - phe - pro - pro - his - ser - thr - pro - arg - ile - glu - glu - lys - leu -
    - phe - thr - pro - ser - ile - asn - met - tyr - val - ser - ile - trp - gly - cys - phe - pro - his - ile - gln - arg - arg - glu -   -   -   -   -
```

... ir clpX_lon-

[###] orf 28 codons

```
              *       *457970    *       *457960    *       *457950    *       *457940    *       *457930    *       *457920    *       *457910    *
5' a a a g g g g a g a t a a a a t c c c c c t t t t t g g t t a a c t a a t t g t a t g g g a a t g g t t a a t t a t t c a c c a g a t g c c t g t t 3'
   - lys - gly - arg -   -   -   -   -   -   -   -fMet - val - asn -   -fMet - tyr - gly - asn - gly -   -   -   -   -   -   -fMet - pro - val -
    -   -   -   -   -   -   -   -   -fMet - gly - met - val - asn - tyr - ser - pro - asp - ala - cys -
```

<--- ... NC_000913.clpX