piece 1, NC_000913, yjiS_yjiT-, config: linear, direction: -, begin: 4570466, end: 4569919

```
   *      *4570460   *      *4570450   *      *4570440   *      *4570430   *      *4570420   *      *4570410   *      *4570400   *      *4570390
5' t a c c c a t g a a a t g t a t t c t g a t t g a c c c a a a g c a a g c t c c t t a g a g a t a a a a g a t a c a a a a a c a a a a c c c c a c a a c a t t c 3'
   - tyr - pro -   -   -   -   - -fMet - thr - gln - ser - lys - leu - leu - arg - asp - lys - arg - tyr - lys - asn - lys - thr - pro - gln - his - phe -
       - thr - his - glu - met - tyr - ser - asp -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
           - pro - met - lys - cys - ile - leu - ile - asp - pro - lys - gln - ala - pro -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
... ------------------------------------------------------------] NC_000913.yjiT
```

... p35

{------ ... p35-(24)-p10 4570364 Gap
|----- ... p35-p10 4570364 total 5.6

```
   *      *4570380   *      *4570370   *      *4570360   *      *4570350   *      *4570340   *      *4570330   *      *4570320   *      *4570310   *
5' t a a t t t g a a a g a a a a c c t t t c a g a a t a t t g t a t a g t t a c t c a g g c g g c a a c a a c t a t t t t t c a g g t c g a t a c t a t a a a t c 3'
   -   -   - -fMet - lys - glu - asn - leu - ser - glu -   - -fMet - tyr - ser - tyr - ser - gly - gly - asn - asn - tyr - phe - phe - arg - ser - ile - leu -
           -fMet - lys - glu - asn - leu - ser - glu -   - -fMet - cys - ile - val - thr - gln - ala - ala - thr - thr - ile - phe - ser - gly - arg - tyr - tyr - lys - ser -
```

... p35   4.4 bits   p10   3.7 bits   p10   1.9 bits   ... sd

... -------------------------------------} p35-(24)-p10 4570364 Gap 2.4 bits

... -------------------------------------| p35-p10 4570364 total 5.6 bits   p10   5.2 bits

p35   4.6 bits

p35   6.4 bits   p10   4.6 bits   {----------------------------------- ... p35-(23)-p10 4570303 Gap

{------------------------------------} p35-(21)-p10 4570359 Gap 3.3 bits |----------------------------------- ... p35-p10 4570303 total 4.6
|------------------------------------| p35-p10 4570359 total 7.7 bits   p10   1.4 bits

------------------------------} p35-(23)-p10 4570357 Gap 1.4 bits
|-----------------------------| p35-p10 4570357 total 6.4 bits   p10   5.9 bits

{--------------------------------} p35-(26)-p10 4570354 Gap 3.7 bits
|--------------------------------| p35-p10 4570354 total 8.6 bits   p35   5.7 bits

{------------------------------------} p35-(24)-p10 4570333 Gap 2.4 bits
|------------------------------------| p35-p10 4570333 total 5.1 bits   p35   2.6 bits

{-------------------------------------} p35-(26)-p10 4570330 Gap 3.7 bits
|-------------------------------------| p35-p10 4570330 total 4.1 bits

```
   *      *4570300   *      *4570290   *      *4570280   *      *4570270   *      *4570260   *      *4570250   *      *4570240   *      *4570230   *
5' a a t t t t a g a t a a a a t g a t a t c a a c c a t c t a t t a a t c a c a a c t c a t t t t a t c a c c t g a t t t t a t a a t t t c a a a t g a a a a t a a 3'
   - ile - leu - asp - lys - asn - asp - ile - asn - his - leu - leu - ile - thr - thr - his - leu - ser - pro - asp - phe - ile - ile - ser - asn - glu - asn - lys -
                                  -fMet - ile - ser - thr - ile - tyr -                                                                         -fMet - lys - ile - asn -
```

... sd   [###> orf 7 codons   p35   5.2 bits

ir yjiS_yjiT-

{------} sd-(7)-ir 4570290 Gap 3.7 bits

... --} p35-(23)-p10 4570303 Gap 1.4 bits
... --| p35-p10 4570303 total 4.6 bits
|------------| sd-ir 4570290 yjiS_yjiT- total 5.4 bits

p10 1.4 bits

[------------- ... p35-(22)-p10 4570216 Gap

|------------------------- ... p35-p10 4570216 total 6.0

*4570220 *   *4570210 *   *4570200 *   *4570190 *   *4570180 *   *4570170 *   *4570160 *   *4570150 *
5' a t c t c a a a c a a t c a a a a a g t a t t c a g t a g c t g a c a t t a a c t t t c c a g g g t a t a a a c a a t t a g a g a a c t g c a c a a t a g c 3'
- ser - gln - thr - ile - lys - lys - tyr - ser - val - ala - asp - ile -   -   -   -   -   -   -   -   -   -   -   -
- leu - lys - gln - ser - lys - ser - ile - gln -   -   -   -   -   -   -   -   -   -   -   -   -   -   -

p10 3.2 bits   p35 5.2 bits   ... sd

... [------------} p35-(22)-p10 4570216 Gap 2.3 bits   p10 2.4 bits   {--- ... sd-(7)-ir 4570137 Gap

... ------------| p35-p10 4570216 total 6.0 bits |--- ... sd-ir 4570137 yjiS_yjiT-

                                          [------------------------} p35-(24)-p10 4570157 Gap 2.4 bits
                                          |------------------------- p35-p10 4570157 total 5.2 bits

*4570140 *   *4570130 *   *4570120 *   *4570110 *   *4570100 *   *4570090 *   *4570080 *   *4570070 *
5' g a a t a a t g a g a g t t g t a a a g t c a g t c a a a a a a c a c a a g t a a t c a c t g t g c g t t t t t g a c c g t t a t c g a c a t g a g t t t a a a 3'
                  -fMet -   -   -   -   -   -   -   -   -   -   -   - -fMet - arg - phe - leu - thr - val - ile - asp - met - ser - leu - lys -
- fMet - arg - val - val - lys - gcc - val - lys - lys - his - lys -   -   -   -   -   -   -   -   -   -   -   -   -   -

... sd   [###> orf 12 codons   ... sd

... {------------} sd-(7)-ir 4570137 Gap 3.7 bits   p35 5.6 bits

... ----------| sd-ir 4570137 yjiS_yjiT- total 5.4 bits   [---------- ... p35-(21)-p10 4570045 Gap

ir yjiS_yjiT- |--------- ... p35-p10 4570045 total 4.7

                                                                                  [-------- ... p35-(23)-p10 4570043 Gap
                                                                                  |--------- ... p35-p10 4570043 total 5.8

*4570060 *   *4570050 *   *4570040 *   *4570030 *   *4570020 *   *4570010 *   *4570000 *   *4569990 *
5' g a g g t t a g t g a a g a a g a t a t t c c t g t a c a c t c c a t a c c t a t t g a t g a a t t g t c t c g g g a a a a t t t t t a t a a c t t a a t t a a 3'
                                                          -fMet - ser - arg - glu - asn - phe - tyr - asn - leu - ile -
- arg - leu - val - lys - lys - ile - phe - leu - tyr - thr - pro - tyr - leu - leu - met - asn - cys - leu - gly - lys - ile - phe - ile - thr -   -   -

... sd   p10 2.4 bits   p35 4.7 bits   [###> orf 23 codons

ir yjiS_yjiT-   p35 3.5 bits   p10 3.2 bits   ... p35

... [------------------------} p35-(21)-p10 4570045 Gap 3.3 bits   [------------------------} p35-(23)-p10 4569997 Gap 1.4 bits
... ------------------------| p35-p10 4570045 total 4.7 bits |------------------------ p35-p10 4569997 total 6.4 bits

... [------------------------} p35-(23)-p10 4570043 Gap 1.4 bits   p35 5.6 bits   p10 4.1 bits

... ------------------------| p35-p10 4570043 total 5.8 bits
{------------} sd-(7)-ir 4570054 Gap 3.7 bits   [------------------------} p35-(23)-p10 4569994 Gap 1.4 bits
                                                                      |------------------------ p35-p10 4569994 total 6.1 bits
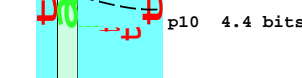
|------------| sd-ir 4570054 yjiS_yjiT- total 6.4 bits

p10   1.6 bits

p10   1.7 bits
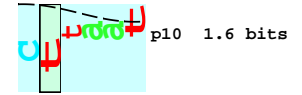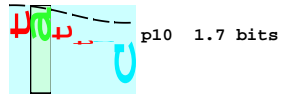
{-------------------------------------} p35-(23)-p10 4569989 Gap 1.4 bits

|-------------------------------------⌐ p35-p10 4569989 total 5.8 bits

p10   1.8 bits
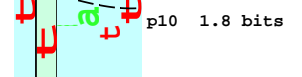
{-------------------------------------} p35-(24)-p10 4569988 Gap 2.4 bits

|-------------------------------------⌐ p35-p10 4569988 total 5.0 bits

p10   4.4 bits

{-------------------------------} p35-(25)-p10 4569987 Gap 4.0 bits

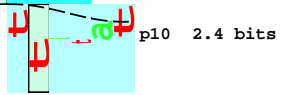|-------------------------------⌐ p35-p10 4569987 total 6.0 bits

{-------- ... p35-(21)-p10 4569963 Gap

-------- ... p35-p10 4569963 total 9.3

{-------- ... p35-(23)-p10 4569961 Gap

|------- ... p35-p10 4569961 total 6.5

```
*4569980  *    *4569970  *    *4569960  *    *4569950  *    *4569940  *    *4569930  *    *4569920
5' a a a c a t a a a a a c g t t t t a t t a t a t a t a a a t c t a t a t c c c c c t c a c t c c a c a t c c t c c c t g c 3'
        -       -       -       -       -       -       -       -       -       -       -       -       -       -
    -       -       -       -       -       -       -       -       -       -       -       -       -
```

p10   7.1 bits
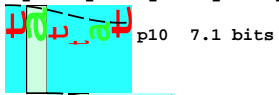
<------------------------------------- ... NC_000913.yjiS

... p35 5.6 bits

p10   2.4 bits

... {--------------------------------} p35-(21)-p10 4569963 Gap 3.3 bits

... |--------------------------------⌐ p35-p10 4569963 total 9.3 bits

... {--------------------------------} p35-(23)-p10 4569961 Gap 1.4 bits

... |--------------------------------| p35-p10 4569961 total 6.5 bits