piece 1, NC_000913, ygfJ_ygfK-, config: linear, direction: -, begin: 3014111, end: 3013741

```
        *3014110  *        *3014100  *        *3014090  *        *3014080  *        *3014070  *        *3014060  *        *3014050  *        *3014040  *
5' aaacggaatggacgcataatatcccccataacccctctccttagcttatacagatatcattgagtgaccggtgttgagaaa 3'
   - lys - arg - asn - gly - thr - his - asn - ile - pro - his - asn - pro - leu - leu - ser - leu - tyr - arg - tyr - his -     -fMet - thr - gly - val - glu - lys -
     - asn - gly - met - gly - arg - ile - ile - ser - pro - ile - thr - leu - ser - leu - ala - tyr - thr - asp - ile - ile - glu -     -fMet - leu - arg - asn -
       - thr - glu - trp - asp - ala -     -     -     -     -     -     -     -     -     -     -     -     -fMet - ser - asp - arg - cys -     -     -
                               ------------------------------------------------] NC_000913.ygfK
```

```
        *3014030  *        *3014020  *        *3014010  *        *3014000  *        *3013990  *        *3013980  *        *3013970  *        *3013960  *        *3013950
5' tccggtggtttagggggatagagcaacatcgcaccactcttgccaggtttggcgggaaatataaaaaatgtgaggcggc 3'
   - ser - gly - gly - leu - gly - gly -     -     -     -     -     -     -     -     -     -     -     -     -fMet -     -     -
     - pro - val - val -     -     -     -     -     -     -fMet - pro - gly - leu - ala - gly - asn - ile - lys - lys - glu - ala - ala -
                                                                                      -fMet - arg - arg - leu -
```

p35  6.1 bits

p10  3.8 bits

{-------------------------------} p35-(25)-p10 3013964 Gap 4.0 bits
|----------------------------| p35-p10 3013964 total 5.9 bits

```
     *         *3013940  *        *3013930  *        *3013920  *        *3013910  *        *3013900  *        *3013890  *        *3013880  *        *3013870
5' tcgaaacttaagggcttttttgtgaatgaactcacaggtgctaaatgagaattaaaatcactcctgaaaattattattgcca 3'
   -     -     -     -     -     -fMet -     -fMet - asn - ser - gln - val - leu - asn - glu - asn -     -     -     -     -     -fMet - pro -
     - arg - asn - leu - arg - ala - phe - cys - glu -     -fMet - arg - ile - lys - ile - glu - pro - glu - asn - tyr - cys - cys - gln -
       - glu - thr -     -     -fMet - asn - glu - leu - thr - gly - ala - lys -     -     -     -     -     -     -     -     -     -     -
```

ir ygfJ_ygfK-

[###> orf 9 codons

p10  7.1 bits

sd

p35  0.7 bits

ir ygfJ_ygfK-

p35  6.1 bits

{-------------} sd-(7)-ir 3013929 Gap 3.7 bits
|-------------| sd-ir 3013929 ygfJ_ygfK- total 5.6 bits

{-------------} sd-(7)-ir 3013906 Gap 3.7 bits

{-------- ... p35-(22)-p10 3013851 Gap
|-------- ... p35-p10 3013851 total 4.3

p10  7.6 bits

sd

p35  2.5 bits

|-------------| sd-ir 3013906 ygfJ_ygfK- total 11.1 bits

{---------------------} p35-(26)-p10 3013897 Gap 3.7 bits
|----------------------| p35-p10 3013897 total 4.6 bits

{-------------------------} p35-(21)-p10 3013878 Gap 3.3 bits
|--------------------------| p35-p10 3013878 total 6.2 bits

```
     *         *3013860  *        *3013850  *        *3013840  *        *3013830  *        *3013820  *        *3013810  *        *3013800  *        *3013790
5' gcccattatcaattttctctttctcaaaatcagtgattccttatcattatgataattgagtgccgagaaggagattaaatat 3'
   - ala - his - leu - ser - ile - phe - leu - phe - ser - gln - asn - gln -     -     -     -     -fMet - ile - met - ser - ala - gly - arg - ile - lys - tyr -
     - pro - ile - tyr - gln - phe - phe - ser - phe - leu - lys - ile - ser - asp - ser - leu - ser - leu -     -     -     -fMet - pro - glu - gly - leu - asn - ile -
       -     -     -     -     -     -     -     -     -     -     -fMet - ile - pro - tyr - his - tyr - asp - asn - glu - cys - arg - lys - asp -     -     -     -
```

[###> orf 31 codons

p10  0.6 bits

p35  3.3 bits

p10  4.7 bits

p10  6.3 bits

... {-------------------------} p35-(22)-p10 3013851 Gap 2.3 bits

p10  4.2 bits

... |-------------------------| p35-p10 3013851 total 4.3 bits
{---------------------------} p35-(22)-p10 3013840 Gap 2.3 bits
|----------------------------| p35-p10 3013840 total 5.7 bits

p35  4.8 bits
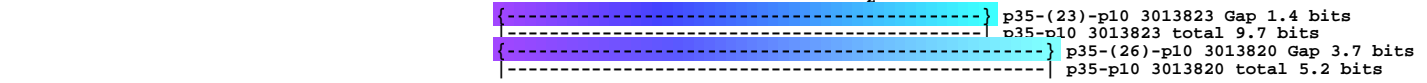
```
                                                              } p35-(23)-p10 3013823 Gap 1.4 bits
                                                              -- p35-p10 3013823 total 9.7 bits
                                                              } p35-(26)-p10 3013820 Gap 3.7 bits
                                                              | p35-p10 3013820 total 5.2 bits

         *      *3013780  *       *3013770  *        *3013760  *        *3013750  *
5' t t g a a c g c a a t c g t t t a a c t a c g t t t t c t a a a t t t c a g t a t a c c t t t 3'
    - leu -  asn - ala - ile - val -  -        -        -        -        -        -        -
        -        -        -        -        -        -        -        -        -        -

         p35  5.0 bits              p35  4.1 bits    <--------------------------------- ... NC_000913.ygfJ

                                              p10   2.1 bits

         } p35-(23)-p10 3013763 Gap 1.4 bits
         | p35-p10 3013763 total 5.6 bits

                                                            p10   2.4 bits

                        } p35-(22)-p10 3013751 Gap 2.3 bits
                        | p35-p10 3013751 total 4.2 bits
```