piece 1, NC_000913, ytfJ_ytfK-, config: linear, direction: -, begin: 4437639, end: 4437266

```
         *        *4437630   *        *4437620   *        *4437610   *        *4437600   *        *4437590   *        *4437580   *        *4437570   *        *4437560
5' aagtgggttgtaccgttggaaaattttcattgttatctcctgctgagtattacgcgctgtgcggtgccacaatcggcccaac 3'
   - lys - trp - val - val - pro - leu - glu - asn - phe - his - cys - tyr - leu - leu - leu - ser - ile - thr - pro - val - arg - cys - his - asn - arg - pro - asn -
   - ser - gly - leu - tyr - arg - trp - lys - ile - phe - ile - val - ile - ser - cys - ●   -   - ser - ile - thr - pro - val - arg - cys - his - asn - arg - pro - asn -
   - val - gly - cys - thr - val - gly - lys - phe - ser - leu - leu - ser - pro - ala - glu - tyr - tyr - ala - cys - ala - val - pro - gln - ser - ala - gln - leu -
```

... --] NC_000913.ytfK

p10   2.8 bits

p35   5.3 bits
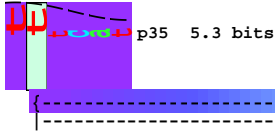
{---} p35-(23)-p10 4437591 Gap 1.4 bits
|---| p35-p10 4437591 total 6.7 bits

```
         *        *4437550   *        *4437540   *        *4437530   *        *4437520   *        *4437510   *        *4437500   *        *4437490   *        *4437480
5' tattatgaggcgcaaattttaatgcttagtgactatagactatccgggcaatgtttccaccgcggtataactttttttacct 3'
   - tyr - tyr - glu - ala - gln - ile - leu - met - leu - ser - asp - tyr - arg - leu - ser - gly - gln - cys - phe - his - arg - val - ●   - asn - phe - phe - tyr - leu -
   - fMet - arg - arg - lys - phe - ●   - fMet - thr - ile - asp - tyr - pro - gly - asn - val - ser - thr - ala - tyr - asn - fMet - phe - pro - pro - arg - ile - thr - phe - phe - thr -
```
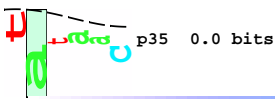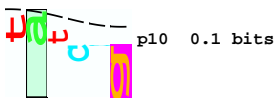
... ir ytfJ_ytfK-

[###]> orf 16 codons

... sd

{-------------------} sd-(12)-ir 4437537 Gap 4.0 bits

p10   0.1 bits

p35   0.0 bits

|-------------------| sd-ir 4437537 ytfJ_ytfK- total 7.1 bits

{----------------- ... p35-(23)-p10 4437470 Gap
|----------------- ... p35-p10 4437470 total 5.5

p35   5.7 bits

{-----------------------------} p35-(23)-p10 4437517 Gap 1.4 bits

|-----------------------------| p35-p10 4437517 total 4.4 bits

p35   4.1 bits

{--------- ... p35-(23)-p10 4437460 Gap
|--------- ... p35-p10 4437460 total 6.4

```
         *        *4437470   *        *4437460   *        *4437450   *        *4437440   *        *4437430   *        *4437420   *        *4437410   *        *4437400
5' aaaggttacaattattcagaattatcttttaccgaagcgcggtcttcagtataagcattcattttcatatgattgtgc 3'
   - lys - val - thr - ile - ile - gln - asn - tyr - leu - phe - thr - glu - ala - arg - ser - ser - val - ●   -   -   - fMet - ile - cys - ala -
                                                                                                              - fMet - ile - cys - ala -
                                                                                                              - fMet - arg -
```

p10   6.9 bits

p35   3.2 bits

p10   3.3 bits

p35   5.3 bits

p10   3.7 bits
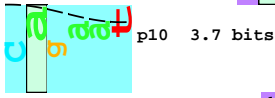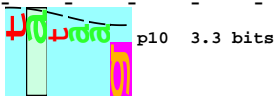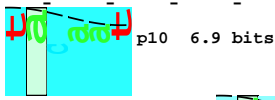
{--------------- ... p35-(26)-p10 4437386 Gap

... -----------} p35-(23)-p10 4437470 Gap 1.4 bits
... -----------| p35-p10 4437470 total 5.5 bits

{-------------------} p35-(23)-p10 4437426 Gap 1.4 bits
|-------------------| p35-p10 4437426 total 5.1 bits

... -----------} p35-(23)-p10 4437460 Gap 1.4 bits
... -----------| p35-p10 4437460 total 6.4 bits

|--------------- ... p35-p10 4437386 total 5.2

```
         *        *4437390   *        *4437380   *        *4437370   *        *4437360   *        *4437350   *        *4437340   *        *4437330   *        *4437320
5' gcttgaccgcaaactggcatcacacttgcgggaaattcgataaatagcacatatgattaaaactcagaccaagtggtcgg 3'
   - ala -                                                                                            -
   - leu - asp - arg - lys - leu - ala - ser - his - leu - arg - glu - ile - arg - ●   -   -   - fMet - ile - lys - thr - gln - thr - gln - val - val - gly -
   - leu - thr - ala - asn - trp - his - his - thr - cys - gly - lys - phe - asp - lys -
```

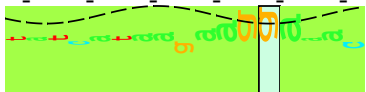p10   3.6 bits

p35   3.4 bits

p10   6.4 bits
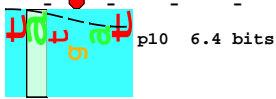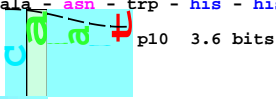
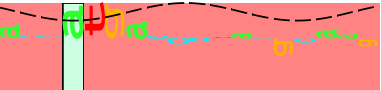... -------------} p35-(26)-p10 4437386 Gap 3.7 bits

{----------------------} p35-(26)-p10 4437344 Gap 3.7 bits

```
                                                    |------------------------------------------------| p35-p10 4437344 total 6.1 bits
...  -------------------| p35-p10 4437386 total 5.2 bits
        *          *4437310    *          *4437300    *          *4437290    *          *4437280    *          *4437270
     5' a t c a c c t g c a t a t c a t a a g a a g g a a a c a c c a t g a c c c t a c g c a a g a t t c t 3'
        -     -     -     -     -     -     -     -     -     -              -fMet - thr - leu - arg - lys - ile -
              - ser - pro - ala - tyr - his - lys - lys - glu - thr - pro -     -     -     -     -     -     -
              -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -
```

sd   [-- ... NC_000913.ytfJ

ir ytfJ_ytfK-

{-----------------} sd-(8)-ir 4437285 Gap 2.4 bits
|-----------------| sd-ir 4437285 ytfJ_ytfK- total 13.6 bits