piece 1, NC_000913, ymgG_ycgI-, config: linear, direction: -, begin: 1222717, end: 1222132

```
        *        *1222710   *        *1222700   *        *1222690   *        *1222680   *        *1222670   *        *1222660   *        *1222650   *        *1222640
5' gaagagacagcgcaggtgtattgtgttcaccgctcaccaaagacatcatgatgaaatgatgatatcccgcataagaaagag 3'
   - glu - glu - thr - ala - gln - val - tyr - cys - val - his - arg - ser - pro - lys - thr - ser -   - asp - glu - met - met - ile - ser - arg - ile - arg - lys - arg -
   - arg - asp - ser - ala - gly - val - leu - cys - ser - pro - leu - thr - lys - asp - ile - met - met - lys -   -   -   -   -   -   -   -   -
```

p35 3.8 bits
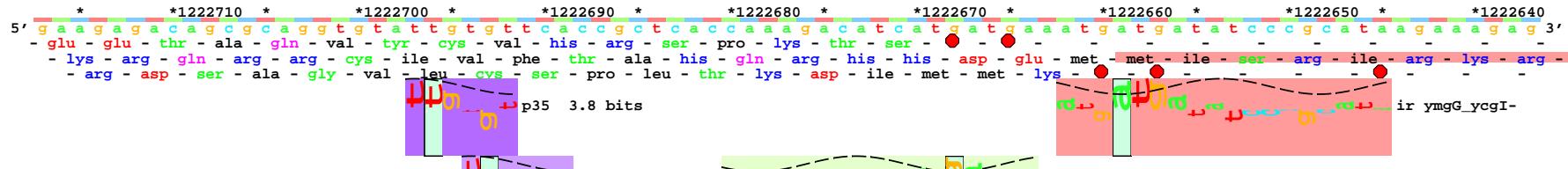
p35 2.5 bits

ir ymgG_ycgI-

sd

sd-(9)-ir 1222659 Gap 2.3 bits
sd-ir 1222659 ymgG_ycgI- total 5.8 bits

p10 3.5 bits

p35-(23)-p10 1222673 Gap 1.4 bits
p35-p10 1222673 total 5.8 bits

p10 3.6 bits

p35-(23)-p10 1222670 Gap 1.4 bits
p35-p10 1222670 total 4.7 bits

```
   *        *1222630   *        *1222620   *        *1222610   *        *1222600   *        *1222590   *        *1222580   *        *1222570   *        *1222560
5' gcattttacacgcagtgcgctgaagtgtagttggataaaaatcactctttctgataatactgtcgtacgcttatctt 3'
   - his - phe - leu - his - ala - val - arg -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
   -   -   -   -   -   -   - -fMet -   -fMet - asp - lys - lys - ser - leu - phe - ser - asp - asn - thr - val - val - arg - leu - ser - phe -
```

orf 16 codons

p35 3.5 bits

p10 4.3 bits

... sd

p35-(23)-p10 1222579 Gap 1.4 bits

p10 4.5 bits

p35-p10 1222579 total 6.4 bits

... p35

p35 3.5 bits

{- ... p35-(21)-p10 1222535 Gap

p35-(24)-p10 1222560 Gap 2.4 bits
p35-p10 1222560 total 5.5 bits
|- ... p35-p10 1222535 total 4.8
{- ... p35-(26)-p10 1222530 Gap
|- ... p35-p10 1222530 total 7.3

```
   *        *1222550   *        *1222540   *        *1222530   *        *1222520   *        *1222510   *        *1222500   *        *1222490   *        *1222480   *
5' tcgacaatgaggccgtcggcaaaatataaaatgactaatgtaatcgttgctgatgaatctcttctgctcataaatcacata 3'
   -   - -fMet - arg - pro - ser - ala - lys -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
   - asp - asn - glu - ala - val - gly - lys - ile - lys -   -fMet -   -fMet - leu - met - asn - ile - phe - cys - ser - his - lys - asn - his - thr -
                                              -fMet - lys - asn - val - ile - val - ala - asp - glu - lys - leu - leu - leu - his -
```

sd

ir ymgG_ycgI-

orf 15 codons

sd-(17)-ir 1222527 Gap 6.5 bits

... p35 3.4 bits   sd-ir 1222527 ymgG_ycgI- total 7.2 bits

... p35-(21)-p10 1222535 Gap 3.3 bits

p10   4.7 bits

p10   7.6 bits

... --| p35-p10 1222535 total 4.8 bits
... --} p35-(26)-p10 1222530 Gap 3.7 bits
... --| p35-p10 1222530 total 7.3 bits

```
       *1222470  *        *1222460  *        *1222450  *        *1222440  *        *1222430  *        *1222420  *        *1222410  *        *1222400  *
5' c a a t a a t a t t g a t a a a t c a g a t t a t c t t a c c t t t a c a a c a t t g c g t t a a c a g t c a a t g a c a c t t c t t g a a t a a a t a t t g 3'
```
-fMet -
-fMet - arg -
-fMet - thr - leu - leu - glu -
- ile - ile - leu - ile - asn - gln - ile - ile - leu - pro - leu - gln - his - cys - val - asn - ser - gln -
-fMet - asn - lys - asn - ile - val -

p35   5.6 bits   p10   2.7 bits   ir ymgG_ycgI-

sd   ... p10

{---} p35-(25)-p10 1222440 Gap 4.0 bits   {----------------} sd-(8)-ir 1222409 Gap 2.4 bits
|--| p35-p10 1222440 total 4.2 bits |----------------| sd-ir 1222409 ymgG_ycgI- total 5.1 bits

p35   3.3 bits   ... p35

{--------------------------------------} p35-(21)-p10 1222397 Gap 3.3 bits
|--| p35-p10 1222397 total 4.6 bits
{- ... p35-(26)-p10 1222368 Gap
|- ... p35-p10 1222368 total 5.1

```
       *1222390  *        *1222380  *        *1222370  *        *1222360  *        *1222350  *        *1222340  *        *1222330  *        *1222320  *
5' t c a a t c a a t g a g t t a t t c c t c a t t t a a g a t t a t t c t c a t t c a c g t a a a a a a c a t a a t t c c t a t c a t c a c a g c c a c g c t c a t 3'
```
- ser - ile - asn - glu - leu - phe - leu - ile -
-fMet - ser - tyr - ser - ser - phe - lys - ile - ile - leu - ile - his - val - lys - asn - ile - ile - pro - ile - ile - thr - ala - thr - leu - ile -
- asn - gln -

[###> orf 9 codons   p10   5.7 bits   p35   0.7 bits   p10   5.5 bits

... p10   4.6 bits   p10   6.0 bits   p10   6.3 bits

p35   1.6 bits   p35   1.7 bits

{-------------------------------} p35-(23)-p10 1222362 Gap 1.4 bits

... p35   3.1 bits   {-----------------------------------} p35-(23)-p10 1222341 Gap 1.4 bits

|--| p35-p10 1222362 total 6.1 bits
|--| p35-p10 1222341 total 5.8 bits
... {---} p35-(26)-p10 1222368 Gap 3.7 bits
... |--| p35-p10 1222368 total 5.1 bits
{------------------------------------} p35-(23)-p10 1222332 Gap 1.4 bits
|--------------------------------------| p35-p10 1222332 total 5.6 bits

```
       *1222310  *        *1222300  *        *1222290  *        *1222280  *        *1222270  *        *1222260  *        *1222250  *        *1222240  *
5' t t t g a a t t a t c t g a a t a a t a g c g a g c g t t c t t t a g t t a a g c a g a t c t t a a t t g a a g a c g a a a t t a t t g t g t g t c a a c t t a 3'
```
-fMet - cys - asn - leu -
- leu - asn - tyr - leu - asn - asn - ser - glu - arg - ser - leu - val - lys - gln - ile - leu - ile - glu - asp - glu - ile - ile - val - cys - ala - thr - tyr -
-fMet - lys - thr - lys - leu - leu - cys - val - gln - leu - thr -

... sd

*1222230 * *1222220 * *1222210 * *1222200 * *1222190 * *1222180 * *1222170 * *1222160 *
5' cttaataccggacatctaagttgaagaaaaaaatacttgccttcgggcttatctcagcattgttctgctccacgccagcga 3'
- leu - asn - thr - gly - his - leu - ser - ● - - - - - -fMet - pro - ser - gly - leu - ser - gln - his - cys - ser - ala - pro - arg - gln - arg -
- leu - ile - pro - asp - ile - ● - - - - - - -fMet - lys - lys - lys - ile - leu - ala - phe - gly - leu - ile - ser - ala - leu - phe - cys - ser - thr - pro - ala - met -

... sd   ir ymgG_ycgI-   p10 1.7 bits

{--------------------} sd-(10)-ir 1222211 Gap 2.7 bits   {--} p35-(21)-p10 1222173 Gap 3.3 bits

|--------------------| sd-ir 1222211 ymgG_ycgI- total 7.8 bits

p35 6.2 bits

|--| p35-p10 1222173 total 4.6 bits

*1222150 * *1222140 *
5' tggcggatatgaaccgcac 3'
- trp - arg - ile - ● - - - -
- - - - - - -
- ala - asp - met - asn - arg -
[--------------------- ... NC_000913.ymgG