piece 1, NC_000913, yjgX_yjgZ-, config: linear, direction: -, begin: 4499312, end: 4498795

```
        *4499310  *        *4499300  *        *4499290  *        *4499280  *        *4499270  *        *4499260  *        *4499250  *        *4499240  *
5' aaggacaagaagcggtccaggaggtaacaaaagggctgaatctctccctgaaacgacttcttcaggaagtcaacgggttat 3'
   - lys - asp - lys - arg - ser - arg - arg -       asn - lys - arg - ala - glu - ser - leu - pro - glu - thr - thr - ser - ser - gly - ser - gln - arg - val - met -
     - arg - thr - arg - ser - gly - pro - gly - gly - arg -     asn     leu - ser     leu - lys     arg   leu - leu - gln - glu - val - asn - gly - leu - cys -
     - gly - gln - glu - ala - val - gln - glu - val - thr - lys - gly - leu
... ----------------------------------------------------] NC_000913.yjgZ                                           sd                                 ... ir

                                                                                       {--------------------------} sd-(14)-ir 4499233 Gap 4.9 bits
                                                                                       |--------------------------| sd-ir 4499233 yjgX_yjgZ- total 5

        *4499230  *        *4499220  *        *4499210  *        *4499200  *        *4499190  *        *4499180  *        *4499170  *        *4499160  *
5' gcgggccgtaacgtgagtgaacactgagcagccatcgaaatgccgtcgagggtgctgacacgccacaataacgggaaggc 3'
     -                - thr - -fMet - ser - glu - his -           - -fMet - pro - ser - arg - val - leu - thr - arg - his - asn - asn - gly - glu - gly -
     - arg - ala - val - thr -       -fMet - asn - thr - glu - gln - pro - ser - lys - cys - arg - arg - gly - cys -
     - gly - pro -
...    ir yjgX_yjgZ-                                                                                                              sd

                                                              [###> orf 6 codons                                    {----------} ... sd-(11)-ir 4499145 Gap
                                                                                                                    |----------| ... sd-ir 4499145 yjgX_yjgZ-

        *4499150  *        *4499140  *        *4499130  *        *4499120  *        *4499110  *        *4499100  *        *4499090  *        *4499080  *        *4499070
5' cgacgatgaccggaagagagtgagaaaggcatcggtcataccaccggggttgtggtgtcagcatgcataacaattgatc 3'
     - arg - arg -               - his -           -                                                       - -fMet - trp - cys - gln - his - ala -     - -fMet - ile -
     - -fMet - thr - gly - lys - arg - val - arg - lys - ala - ser - val - ile - pro - thr - gly - val - val - val - ser - ala - cys - ile - thr - ile - asp - arg -
...    ir yjgX_yjgZ-                                                                                                 ir yjgX_yjgZ-

... ----------} sd-(11)-ir 4499145 Gap 3.0 bits                           sd                                 [###> orf 5 codons

... ----------| sd-ir 4499145 yjgX_yjgZ- total 8.0 bits                                          {--------------} sd-(8)-ir 4499086 Gap 2.4 bits
                                                                                                |--------------| sd-ir 4499086 yjgX_yjgZ- total 5.2 bits

            *        *4499060  *        *4499050  *        *4499040  *        *4499030  *        *4499020  *        *4499010  *        *4499000  *        *4498990
5' gatcgtgcaacaagagaagtccataacggtgtcgtccgggtgacgggcaacaacctcgcagagggtgaatcggttgt 3'
     - asp - arg - ala - thr - arg - glu - val - his - asn - gly - val - cys - pro - gly - asp - gly - gln - gln - arg - leu - ala - arg - gly -
                 - -fMet - gln - gln - glu - lys - ser - ile - thr - val - ser - val - arg - val - thr - gly - asn - asn - ala - ser - arg - gly - gly - glu - ser - val - val -
     - ser - cys - asn - lys - arg - ser - pro -
                                     [###> orf 34 codons                                                                   - -fMet - asn - arg - leu - leu -

            *        *4498980  *        *4498970  *        *4498960  *        *4498950  *        *4498940  *        *4498930  *        *4498920  *        *4498910
5' tatggatggcagatggggtgtagtagtgaaaatactgagtaatgtcagaggagcgaaggcccctcttgcagtaccagtgt 3'
     -                - -fMet - gly - cys - ser - ser - glu - leu -                     - -fMet - gly - tyr - gln - his - cys -
     - met - asp - gly - arg - trp - gly - val - val - val - lys - ile - leu - ser - asn - val - arg - gly - ala - lys - ala - pro - ser - cys - ser - thr - ser - val -
     - trp - met - ala - asp - gly - val -                     - -fMet - ser - glu - glu - arg - arg - pro - pro - leu - ala - val - pro - val -
                         p35   3.1 bits                                          ir yjgX_yjgZ-
                                                               sd                p10   3.5 bits

                                       {--------------} sd-(8)-ir 4498963 Gap 2.4 bits
                                       |--------------| sd-ir 4498963 yjgX_yjgZ- total 7.3 bits
                     {--------------------------------} p35-(24)-p10 4498957 Gap 2.4 bits
                     |--------------------------------| p35-p10 4498957 total 4.1 bits

            *        *4498900  *        *4498890  *        *4498880  *        *4498870  *        *4498860  *        *4498850  *        *4498840  *        *4498830
5' aacatgcaagaagagcccggagattgccatcagcctcacaaccccggctagaaccggttcgaacctacagaaacactaca 3'
     - asn - met - gln - glu - glu - pro - gly - asp - cys - his - gln - pro - his - asn - pro - ala - arg - thr - gly - ser - glu - pro - thr - glu - asn - thr - thr -
     - thr - cys - arg - lys - ser - pro - ala - ile - ala - ile - ser - leu - thr - thr - pro - leu - glu - pro - val - gln - asn - leu - gln - lys - thr - leu - gln -
                         - -fMet - pro - ser - ala - ser - gln - pro - arg -
                         p35   6.1 bits                               p10   2.3 bits                                                         ... sd
```
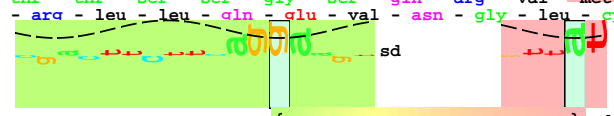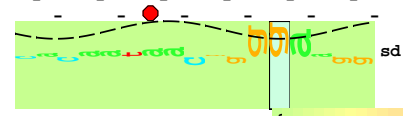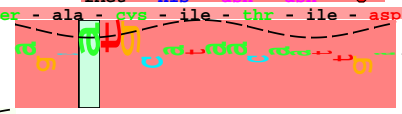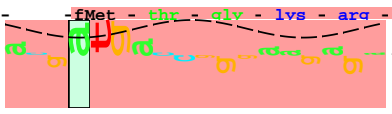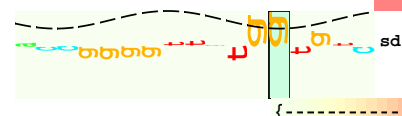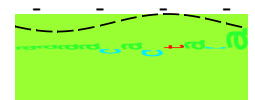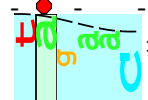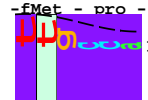
p35-(24)-p10 4498859 Gap 2.4 bits
p35-p10 4498859 total 5.9 bits

```
        *          *4498820  *         *4498810  *         *4498800  *
5' g g a g a a a g c a a a g t g a a c c g c c c c g t g t t t c c 3'
    - gly - glu - ser - lys - val - asn - arg - pro - val - phe -
       - glu - lys - ala - lys - ●  -   -   -   -   -   -
```

... sd   orf 51 codons

ir yjgX_yjgZ-

sd-(11)-ir 4498814 Gap 3.0 bits
sd-ir 4498814 yjgX_yjgZ- total 9.5 bits