piece 1, NC_000913, ydeN_ydeO+, config: linear, direction: +, begin: 1580519, end: 1580969
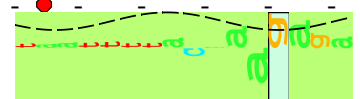
```
        *1580520  *        *1580530  *        *1580540  *        *1580550  *        *1580560  *        *1580570  *        *1580580  *        *1580590  *
5' tacgacacttttctttaatgcagacttcataaatgttcctcttcttattgtacttaattccaaagtaattttacgaagaga 3'
     - tyr - thr - thr - leu - phe - phe - asn - ala - asp - phe - ile - asn - val - pro - leu - leu - ile - val - leu - asn - ser - lys - val - ile - leu - arg - arg - glu -
        - arg - his - phe - ser - leu - met - gln - thr - ser -     -fMet - phe - leu - phe - leu - leu - tyr - leu - ile - pro - lys -
... ------------------------------------------------------] NC_000913.ydeN                                                                        ... sd
```

p35   4.8 bits   p10   0.8 bits

{-------} ... sd-(9)-ir 1580605 Gap

{-----------------} p35-(23)-p10 1580551 Gap 1.4 bits
|-----------------| p35-p10 1580551 total 4.1 bits

|------- ... sd-ir 1580605 ydeN_ydeO+
{------- ... sd-(13)-ir 1580609 Gap
|------- ... sd-ir 1580609 ydeN_ydeO+

```
        *1580600  *        *1580610  *        *1580620  *        *1580630  *        *1580640  *        *1580650  *        *1580660  *        *1580670  *        *1580680
5' aataagtggatgtaagtgaagttagtcacataaagagatagcagatttagctaaaaaaaggaaaaaacagtccataaagc 3'
          -fMet -      -fMet - lys - leu - val - thr -     -     -     -     -     -     -     -     -     -     -     -     -
     - ile - ser - gly - cys - lys -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -
        -fMet - asp - val - ser - glu - val - ser - his - ile - lys - arg -     -     -     -     -     -     -     -     -
... sd                                      ir ydeN_ydeO+              [###> orf 12 codons
```

... sc   ir ydeN_ydeO+

... {---------} sd-(9)-ir 1580605 Gap 2.3 bits
... |----------| sd-ir 1580605 ydeN_ydeO+ total 7.4 bits
... {----------} sd-(13)-ir 1580609 Gap 4.6 bits
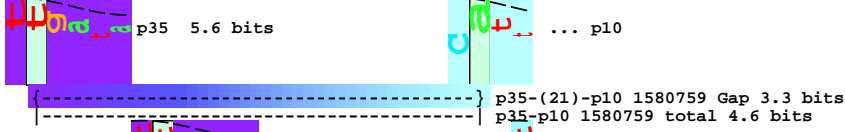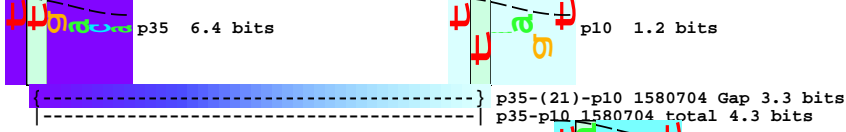... |----------| sd-ir 1580609 ydeN_ydeO+ total 6.4 bits

ir ydeN_ydeO+

[###> orf 2 codons

```
              *        *1580690  *        *1580700  *        *1580710  *        *1580720  *        *1580730  *        *1580740  *        *1580750  *        *1580760
5' gttgacattactttctgttctattaagtaatttctcgccgataaacaactaattattgatatttaataaattattgcatt 3'
      -fMet - thr - leu - leu - ser - val - leu - leu - ser - asn - phe - ser - pro - ile - asn - asn -     -     -     -     -fMet - ile - phe - asn - lys - leu - leu - his - phe -
```

p35   6.4 bits   p10   1.2 bits   p35   5.6 bits   ... p10

{-----------------} p35-(21)-p10 1580704 Gap 3.3 bits   {-----------------} p35-(21)-p10 1580759 Gap 3.3 bits
|-----------------| p35-p10 1580704 total 4.3 bits |-----------------| p35-p10 1580759 total 4.6 bits

p10   4.4 bits   p35   5.7 bits   ... p10

{-----------------------} p35-(26)-p10 1580709 Gap 3.7 bits   {------------------------} ... p35-(24)-p10 1580762 Gap
|-----------------------| p35-p10 1580709 total 7.1 bits |------------------------| ... p35-p10 1580762 total 6.5
                                                                                             {-----------------------} ... p35-(26)-p10 1580770 Gap
                                                                                             |-----------------------| ... p35-p10 1580770 total 6.7

p35   6.2 bits

{------------} ... p35-(21)-p10 1580777 Gap
|------------| ... p35-p10 1580777 total 6.6

... p35

```
              *        *1580770  *        *1580780  *        *1580790  *        *1580800  *        *1580810  *        *1580820  *        *1580830  *        *1580840
5' ttactgacaaaatgcagaattgagatcataaataatcatgcaacaggttatgcaagtgcataaatatgtgatggatgtcac 3'
     -     -     -     -     -     -     -     -fMet - arg - ser -     -     -fMet - gln - gln - val - met - gln - val - his - lys - tyr - val - met - asp - val - thr -
        - thr - asp - lys - met - gln - asn -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -fMet -     -     -fMet - ser - leu -
```

```
...⊔  p10  2.3 bits          p10  3.7 bits                              sd         ir ydeN_ydeO+

           p10   4.7 bits          p10  2.3 bits      {--------------------} sd-(10)-ir 1580811 Gap 2.7 bits

                                                      |-------------------| sd-ir 1580811 ydeN_ydeO+ total 7.6 bits

...  p10   3.4 bits                                                                    ir ydeN_ydeO+

                                                           sd

... } p35-(24)-p10 1580762 Gap 2.4 bits                    {---------------} sd-(9)-ir 1580817 Gap 2.3 bits
                                                           |----------------| sd-ir 1580817 ydeN_ydeO+ total 7.8 bits
... | p35-p10 1580762 total 6.5 bits
... --------------------} p35-(26)-p10 1580770 Gap 3.7 bits
... ------------------| p35-p10 1580770 total 6.7 bits
... {----------------------------------------} p35-(24)-p10 1580786 Gap 2.4 bits
... --------------------------} p35-(21)-p10 1580777 Gap 3.3 bits
... ----------------------------| p35-p10 1580777 total 6.6 bits
... p35   5.7 bits

|-----------------------------------------------| p35-p10 1580786 total 5.5 bits

     *        *1580850  *       *1580860  *       *1580870  *       *1580880  *       *1580890  *       *1580900  *       *1580910  *       *1580920
5' ttatttatttcaataaatatatcgcctaaaaacaacgcggggcagggaatggctgccccatttaattcttacgcagcgtgt 3'
   -    -    -    -    -    -    -    -    -    -    -    -    -    -    -fMet - ala - ala - pro - phe - asn - ser - tyr - ala - ala - cys -
   - tyr - leu - phe - gln -  ●  -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -fMet -
   - ile - tyr - phe - asn - lys - tyr - ile - ala -  ●  -    -    -    -    -    -    -  ●  -    -    -    -    -    -    -    -fMet - cys -
                       [###> orf 16 codons

     *        *1580930  *       *1580940  *       *1580950  *       *1580960  *
5' gtggttgactactcgttagcaaataatcaaatagctaaagcattca 3'
   - val - val - asp - tyr - ser - leu - ala - asn - asn - gln - ile - ala - lys - ala - phe -
   - trp - leu - thr - thr - arg -  ●  -    -    -    -    -    -    -    -    -    -    -
   - gly -  ●  -    -    -    -    -  ●  -    -    -    -  ●  -    -    -    -
                                  <------------------------------------- ... NC_000913.ydeO
```