piece 1, NC_000913, ydeP_ydeQ-, config: linear, direction: -, begin: 1584873, end: 1584491

*1584870 * *1584860 * *1584850 * *1584840 * *1584830 * *1584820 * *1584810 * *1584800 *

5' g t c a t t g g t g t c a c t t t t a t c t a t g a a t a a t t g t g a t t t t g a c c t t a g t c t a t g c g c t c c a t t c a c g a a a a t t g c g c g g a t 3'

- val - ile - gly - val - thr - phe - ile - tyr - glu - -fMet - - - - - - -fMet - arg - ser - ile - his - glu - asn - cys - ala - asp -
- ser - leu - val - ser - leu - leu - ser - met - asn - asn - cys - asp - phe - asp - leu - ser - leu - cys - ala - pro - phe - thr - lys - ile - ala - arg - ile -
- his - trp - cys - his - phe - tyr - leu - - - - - -fMet - ile - leu - thr - leu - val - tyr - ala - leu - his - ser - arg - lys - leu - arg - gly - -

p35 3.5 bits   p10 4.1 bits

{ } p35-(23)-p10 1584827 Gap 1.4 bits
| | p35-p10 1584827 total 6.2 bits

*1584790 * *1584780 * *1584770 * *1584760 * *1584750 * *1584740 * *1584730 * *1584720 *

5' a a t t a t t t t g t g a a g g c t a t t a g c c t a c a c c t g t a a g a a a t c c g c g c a c a a t t g a a g c c a g a g t c t t a t t t t t a t a t t g 3'

- asn - tyr - phe - val - lys - ala - ile - ser - leu - his - leu - - - - - - - - - - - -fMet - lys - pro - glu - ser - tyr - phe - leu - tyr -
- ile - ile - leu -fMet -

p35 5.5 bits   ... sd

{- ... sd-(7)-ir 1584705 Gap
| - ... sd-ir 1584705 ydeP_ydeQ-

p10 2.4 bits

{ } p35-(21)-p10 1584718 Gap 3.3 bits
| | p35-p10 1584718 total 4.6 bits

p10 6.5 bits

{ } p35-(22)-p10 1584717 Gap 2.3 bits
| | p35-p10 1584717 total 9.7 bits

p35 3.9 bits

{ ... p35-(22)-p10 1584700 Gap
| ... p35-p10 1584700 total 6.0

... p35

{ ... p35-(22)-p10 1584691 Gap
| ... p35-p10 1584691 total 6.9

*1584710 * *1584700 * *1584690 * *1584680 * *1584670 * *1584660 * *1584650 * *1584640 *

5' a a a a t a t g t t a a t t t a a a c a c t a t g a g a g a t g a t g c t t a a c t t a t c g t a t t t a a t c t a t t g t t t a a c g a t a a t a g a t t a a 3'

- lys - asn - met - leu - ile - - - - - - -fMet - met - leu - asn - leu - ser - tyr - leu - ile - tyr - cys - leu - thr - ile - ile - asp - -
- - - - - - - - - -fMet - arg - asp - asp - ala - - - - - - - - - -fMet - phe - asn - asp - asn - arg - leu - lys -

... sd   [###> orf 4 codons   ir ydeP_ydeQ-   p10 4.6 bits   [###> orf 16 codons

... -----} sd-(7)-ir 1584705 Gap 3.7 bits   { } sd-(8)-ir 1584678 Gap 2.4 bits   p10 5.2 bits   p10 4.7 bits

... -----| sd-ir 1584705 ydeP_ydeQ- total 9.4 bits   p10 2.6 bits   p35 5.7 bits

ir ydeP_ydeQ-   p10 3.7 bits   { } p35-(23)-p10 1584637 Gap 1.4 bits

- 2 -

```
sd{------------------------------------->} p35-(22)-p10 1584658 Gap 2.3 bits
p10   4.4 bits     |----------------| sd-ir 1584678 ydeP_ydeQ- total 6.4 bits

        p10   2.8 bits      p35   2.2 bits     |-----------------------------------------| p35-p10 1584637 total 8.9 bits
        p35   5.6 bits      p35   1.6 bits
                    {-------------------------} p35-(24)-p10 1584673 Gap 2.4 bits
                    |-------------------------| p35-p10 1584673 total 5.7 bits
...-------------------->} p35-(22)-p10 1584700 Gap 2.3 bits  |-------------------------------| p35-p10 1584658 total 4.4 bits
...-------------------| p35-p10 1584700 total 6.0 bits   {---------------------------------} p35-(24)-p10 1584653 Gap 2.4 bits
...  p35   6.4 bits   {-------------------------------->} p35-(25)-p10 1584672 Gap 4.0 bits
...-------------------->} p35-(22)-p10 1584691 Gap 2.3 bits
...-------------------| p35-p10 1584691 total 6.9 bits   |-------------------------| p35-p10 1584672 total 5.2 bits
                                 |-------------------------| p35-p10 1584653 total 4.4 bits
```

```
    *1584630  *      *1584620  *      *1584610  *      *1584600  *      *1584590  *      *1584580  *      *1584570  *      *1584560  *      *1584550
5' aaatagaaagagagtagtcccctactcttatatatccatgttggcgataatccctttgtatgtactgtgcatcatcgctat 3'
    -   -   -   -   -   -   -   -   -   -   -                                   -fMet - his - his - arg - tyr -
    - ile - glu - arg - glu -   -   -   -   -   -   -   -   -fMet - leu - ala - ile - ile - pro - leu - tyr - val - leu - cys - ile - ile - ala - ile -
                    -   -   -   -   -   -   -   -   -fMet - tyr - cys - ala - ser - ser - leu - leu -
```

```
p35   5.7 bits            ... p10
{--------------------------------->} p35-(23)-p10 1584551 Gap 1.4 bit
|---------------------------------| p35-p10 1584551 total 7.0 bits
```

```
      *      *1584540  *      *1584530  *      *1584520  *      *1584510  *      *1584500  *
5' tacaaatcctaataattcatttccacacaggataagtagatgaagaaaaaaattgaatc 3'
    - tyr - lys - ser -   -   -   -   -   -   -fMet - lys - lys - lys - ile - glu -
    - thr - asn - pro - asn - asn - ser - phe - pro - his - arg - ile - ser - arg -   -   -   -fMet - asn -
      - gln - ile - leu - ile - ile - his - phe - his - thr - gly -
```

```
... p10   2.8 bits        sd [------------------------------------ ... NC_000913.ydeP
                                          ir ydeP_ydeQ-
            {-----------------} sd-(9)-ir 1584510 Gap 2.3 bits
            |-----------------| sd-ir 1584510 ydeP_ydeQ- total 16.4 bits
```