piece 1, NC_000913, ompT_pauD+, config: linear, direction: +, begin: 584827, end: 585299

```
         *584830    *      *584840    *      *584850    *      *584860    *      *584870    *      *584880    *      *584890    *      *584900    *
5' caggactattcccagaagtttcgcccgcataaaagttctccattcaatcgttttaatgattgaatatgtattttttatatc 3'
   - gln - asp - tyr - ser - gln - lys - phe - arg - pro - his - lys - ser - ser - pro - phe - asn - arg - phe - asn - asp -
   - arg - thr - ile - pro - arg - ser - phe - ala - arg - ile - lys - val - leu - his - ser - ile - val - leu - met - asp - ile - glu - tyr - val - phe - phe - ile - ser -
   - gly - leu - phe - pro - glu - val - ser - pro - ala -                                         -fMet - asn - met - tyr - phe - leu - tyr - leu -
```

... --] NC_000913.ompT   ir ompT_pauD+

sd

p10   3.2 bits

{------------------} sd-(8)-ir 584892 Gap 2.4 bits
|------------------| sd-ir 584892 ompT_pauD+ total 7.7 bits

p35   5.7 bits   p10   2.4 bits

{- - - - - - - - - - - -} p35-(21)-p10 584900 Gap 3.3 bits
|- - - - - - - - - - - -| p35-p10 584900 total 5.5 bits
{- - - - - - - - - - - - -} p35-(23)-p10 584902 Gap 1.4 bits
|- - - - - - - - - - - - -| p35-p10 584902 total 6.6 bits

p35   6.5 bits   p10   2.2 bits

{- - - - - - - - - - - - -} p35-(24)-p10 584903 Gap 2.4 bits
|- - - - - - - - - - - - -| p35-p10 584903 total 5.5 bits
{- - - - - - - - - - - - -- ... p35-(22)-p10 584909 Gap
|- - - - - - - - - - - - -- ... p35-p10 584909 total 7.9
{- - - - - - - - - - - - -- ... p35-(25)-p10 584912 Gap
|- - - - - - - - - - - - -- ... p35-p10 584912 total 4.1

```
         *584910    *      *584920    *      *584930    *      *584940    *      *584950    *      *584960    *      *584970    *      *584980    *
5' taacttaatgagtcaattacatattgctccactgtttatatttgtttagttattgagttattcacaatgcgctatctgt 3'
   - asn - leu - met - ser - gln - leu - his - ile - ala - pro - leu - phe - ile - phe - cys - leu - val - leu - asn - asp - tyr - his - asn - ala - leu - ser - val -
   - thr -                                                 -fMet - phe - ser - ile - glu -                  -fMet - ile - ile - thr - met - arg - tyr - leu - phe -
   -                                  -fMet - leu - his - cys - leu - tyr - phe - val -                                         - met - arg - tyr - leu - phe -
```

[###> orf 8 codons   p35   2.4 bits   sd   ... ir

p10   3.7 bits   p35   3.8 bits   p10   6.5 bits   {- - - - - - - - - -} sd-(10)-ir 584976 Gap 2.7 bits

p10   1.6 bits {- - - - - - - - - - - - - - - -} p35-(21)-p10 584945 Gap 3.3 bits |- - - - - - - - -| sd-ir 584976 ompT_pauD+ total 6.7 bits

|- - - - - - - - - - - - - - - - - -| p35-p10 584945 total 5.6 bits   p10   2.7 bits   ... p35

p10   5.2 bits   p10   3.0 bits   {- - ... p35-(22)-p10 585009 Gap

{- - - - - - - - - - - - - - - - - - - -} p35-(23)-p10 584947 Gap 1.4 bits   p10   4.1 bits |- - ... p35-p10 585009 total 4.1

|- - - - - - - - - - - - - - - - - - - -| p35-p10 584947 total 6.2 bits

p35   4.7 bits   p10   5.3 bits

{- - - - - - - - - - - - - - - - - - - -} p35-(24)-p10 584956 Gap 2.4 bits

|---------------------------------------| p35-p10 584956 total 6.6 bits
{-------------------------------------} p35-(21)-p10 584964 Gap 3.3 bits
|---------------------------------------| p35-p10 584964 total 4.1 bits
... --} p35-(22)-p10 584909 Gap 2.3 bits
{-----------------------------------} p35-(24)-p10 584967 Gap 2.4 bits
... --| p35-p10 584909 total 7.9 bits
|---------------------------------------| p35-p10 584967 total 5.3 bits
... ------} p35-(25)-p10 584912 Gap 4.0 bits
p35   4.8 bits

... -------| p35-p10 584912 total 4.1 bits
{-----------------------------------} p35-(22)-p10 584973 Gap 2.3 bits
|---------------------------------------| p35-p10 584973 total 6.5 bits

*584990   *   *585000   *   *585010   *   *585020   *   *585030   *   *585040   *   *585050   *   *585060   *
5' tttggtttaattatctgtttgtttcatatttactgtgtggttttttatgctttttatcta 3'
-      -   -   -   -fMet - phe - his - ile - ser - val - leu - leu - cys - gly - phe - phe - met - leu - leu - trp - cys - phe - tyr - leu -
- phe - gly - leu - ile - ile - cys - tyr - cys - phe - ile - phe - arg - phe - tyr - cys - val - val - phe - leu - cys - phe - cys - gly - ala - phe - ile - tyr -
-    - leu - val - ● -   -   -   -   -   -   -   -   -   -   -fMet - trp - phe - phe - tyr - ala - phe - val - val - leu - leu - ser - ile -
... ir ompT_pauD+
p10   4.6 bits
p35   5.7 bits
p10   0.7 bits

[###> orf 8 codons
p10   3.6 bits
p35   3.9 bits
p10   3.2 bits

p35   5.7 bits
p10   0.9 bits
{-----------------------------------} p35-(22)-p10 585062 Gap 2.3 bits

... p35   1.8 bits
{------------------------------------} p35-(23)-p10 585051 Gap 1.4 bits

... |----------------------------------} p35-(22)-p10 585009 Gap 2.3 bits
|---------------------------| p35-p10 585051 total 4.9 bits
... |---------------------------------| p35-p10 585009 total 4.1 bits
|---------------------------| p35-p10 585062 total 4.8 bits
{-------------------------------} p35-(21)-p10 585017 Gap 3.3 bits
|---------------------------| p35-p10 585017 total 6.0 bits
{---------------------------} p35-(23)-p10 585019 Gap 1.4 bits
|---------------------------| p35-p10 585019 total 5.1 bits

*585070   *   *585080   *   *585090   *   *585100   *   *585110   *   *585120   *   *585130   *   *585140   *   *585150
5' tttaagtgccatgcctttagaggcatataagcgaaaatagcatgaggttttatcctcaattactatgtttttagtacaaaa 3'
- phe - lys - cys - his - ala - met - pro - leu - glu - ala - tyr - lys - arg - lys -   -   -   -   -   -   -   -   -   -fMet - phe - phe - ser - thr - lys -
- leu - ser - ala - met - pro - leu - glu - ala - tyr - lys - arg - lys - ● -fMet - arg - phe - ile - leu - asn - tyr - tyr - val - phe - ● -   -   -   -   -
- ● -fMet - pro - cys - leu - ● -   -   -   -   -   -   -   -fMet - arg - phe - ile - leu - asn - tyr - tyr - val - phe - ● -   -   -   -   -
p35   3.1 bits
ir ompT_pauD+
[###> orf 11 codons

sd
ir ompT_pauD+
p35   3.7 bits
{-------------------} sd-(9)-ir 585111 Gap 2.3 bits
p10   5.6 bits

|-------------------| sd-ir 585111 ompT_pauD+ total 5.5 bits
p35   3.8 bits

sd
{------------------------} ... p35-(23)-p10 585161 Gap
p10   3.6 bits
{-------------------------} sd-(17)-ir 585133 Gap 6.5 bits

|------------------------------| sd-ir 585133 ompT_pauD+ total 5.3 bits

- 3 -

{--> p35-(22)-p10 585103 Gap 2.3 bits |------------------------- ... p35-p10 585161 total 5.1
|--| p35-p10 585103 total 4.3 bits

p10   4.5 bits
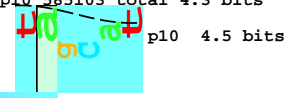
{---} p35-(22)-p10 585108 Gap 2.3 bits
|---| p35-p10 585108 total 5.9 bits

p35   2.1 bits

{--> p35-(22)-p10 585130 Gap 2.3 bits
|--| p35-p10 585130 total 5.4 bits

```
        *      *585160    *        *585170    *        *585180    *        *585190    *        *585200    *        *585210    *        *585220    *        *585230
5' a a g a g g g a c a a a a c t g a g a c a c a t a a g g c c t c g c a a t g g c t t g c a a g g c t t t a c a t g t t t t g a g g t a g t g g g a c g t g t g a g 3'
   - lys - arg - asp - lys - thr - glu - thr - his - lys - ala - ser - gln - trp - leu - ala - arg - leu - tyr - met - phe - ●  -   -   -   -   -   -   -
    -    -    -    -    -    -    -    -    -    -    -    -    -fMet - gln - gly - phe - thr - cys - phe - glu - val - val - gly - arg - val - ser -
    -    -    -    -    -    ●    -    -    -    -    -    -fMet - ala - cys - lys - ala - leu - his - val - leu - arg - ●  -   -   -fMet - ●  -   -
```

p10   2.7 bits
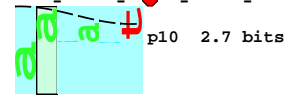
[###> orf 27 codons

... {-----------------> p35-(23)-p10 585161 Gap 1.4 bits

... |-----------------| p35-p10 585161 total 5.1 bits

```
        *      *585240    *        *585250    *        *585260    *        *585270    *        *585280    *        *585290    *
5' c g c a g a g a t g g c g c g g t a a g t t g t t g a c t t a a a a t g t c g t t c t a g g a a c t t c t a a g t c g t g g c c g c a 3'
    -    -    -    -    -    -    -    -    -    -    -fMet - ser - phe -    -    -    -    -    -    -    -fMet - gly - arg -
   - ala - glu - met - ala - arg - ●  -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - ●  -   -   -   -
    -    -    -    -    -fMet - leu - thr - ●  -   -   -   -   -   -   -   -   -   -   -   -   -   -
```

p35   0.7 bits   p10   7.6 bits
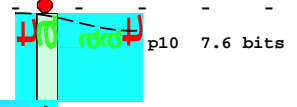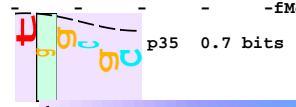
{-------------------------------} p35-(21)-p10 585262 Gap 3.3 bits
|-------------------------------| p35-p10 585262 total 5.0 bits