piece 1, NC_000913, ypfM_yffB-, config: linear, direction: -, begin: 2589298, end: 2588869

```
      *        *2589290  *        *2589280  *        *2589270  *        *2589260  *        *2589250  *        *2589240  *        *2589230  *        *2589220
5' a c a a t t t t t g a t a c c g t a a a g t g t a a c c a t a a t g a a t c c t t t t t c g a t t t a t g a g a a t a a a t a c t c a t t t a a g g g t g a a a a 3'
   -    thr - ile - phe - asp - thr - val - lys - cys - asn - his - glu - ser - phe - phe - asp - leu -   -   -   -   -   -   -   -   -
   -    gln - phe - leu - ile - pro - val -   -   -   -   -fMet - asn - pro - phe - ser - ile - tyr - glu - asn - lys - tyr - ser - phe - lys - gly - glu - asn
   -    asn - phe -   -   -   -   -fMet -   -   -   -   -fMet - arg - ile - asn - thr - his - leu - arg - val - lys - thr
```

... ---] NC_000913.yffB

ir ypfM_yffB-

{------------ ... sd-(11)-ir 2589213 Gap

sd

ir ypfM_yffB-

sd

p35   2.9 bits

{-----------------------} sd-(11)-ir 2589267 Gap 3.0 bits

|------------- ... sd-ir 2589213 ypfM_yffB-

|--------------------| sd-ir 2589267 ypfM_yffB- total 7.9 bits

sd

{---------------------} sd-(17)-ir 2589248 Gap 6.5 bits
|---------------------| sd-ir 2589248 ypfM_yffB- total 6.9 bits

p10   5.5 bits

{-------------------------------} p35-(23)-p10 2589270 Gap 1.4 bits
|-------------------------------| p35-p10 2589270 total 7.0 bits

```
      *        *2589210  *        *2589200  *        *2589190  *        *2589180  *        *2589170  *        *2589160  *        *2589150  *        *2589140
5' c a t t t t g c c t g c a a a t g a t t a t c a g g a a a t a t a a c a t t a t c g a a g t a t t c a a a t t a a c a a c t a t t a a a t a a t a t t a a a c a t 3'
   -    ile - leu - pro - ala - asn - asp - tyr - gln - glu - ile -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
   -    phe - cys - leu - gln - met - ile - ile - arg - lys - cys - asn - ile - ile - glu - val - phe - lys - leu - thr - thr - ile - lys -   -   -   -
```

...--------} sd-(11)-ir 2589213 Gap 3.0 bits

[###]> orf 28 codons

p35   2.1 bits

[###]> orf 34 codons

ir ypfM_yffB-

p10   2.5 bits

p10   6.3 bits

...--------| sd-ir 2589213 ypfM_yffB- total 6.9 bits

p10   4.1 bits

{--} p35-(22)-p10 2589148 Gap 2.3 bits

p35   6.2 bits

|--| p35-p10 2589148 total 6.1 bits

{--------------------------} p35-(22)-p10 2589190 Gap 2.3 bits
|--------------------------| p35-p10 2589190 total 6.4 bits
{--------------------------} p35-(25)-p10 2589187 Gap 4.0 bits
|--------------------------| p35-p10 2589187 total 6.2 bits

```
      *        *2589130  *        *2589120  *        *2589110  *        *2589100  *        *2589090  *        *2589080  *        *2589070  *        *2589060
5' t t t t a a c g t a a a c a t t a a g a a t a t t c a t c t t g t t a t c t g t c t g t a t t t t a a c c a g a a t t a a a t c a g t a t t a g a t g c c g t a 3'
   -    -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - pro - tyr -
   -    -   -   -   -fMet - leu - ser - val - cys - ile - leu - thr - arg - ile - lys - ser - val - leu - asp - ala - val -   -
```

p35   2.2 bits

p10   5.2 bits

p10   1.8 bits

{--------------------------} p35-(21)-p10 2589092 Gap 3.3 bits
|--------------------------| p35-p10 2589092 total 4.1 bits

p35   4.7 bits

p10   3.7 bits
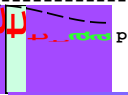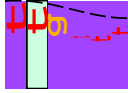
p35-(23)-p10 2589083 Gap 1.4 bits
p35-p10 2589083 total 6.9 bits
p35 4.7 bits

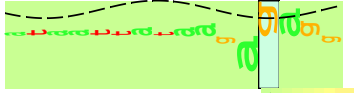p35-(23)-p10 2589067 Gap 1.4 bits
p35-p10 2589067 total 5.0 bits

```
         *        *2589050  *         *2589040  *         *2589030  *         *2589020  *         *2589010  *         *2589000  *         *2588990  *         *2588980  *
5' g a a t a t c t c g a a a t g t t g c t g t g t a t c a c a t a c a a a t c a t c a c c g c a g g a c c a t a g t a t t t a c a t a a g a t t t g t c c c c c g g 3'
   - glu - tyr - leu - glu - met - leu - leu - cys - ile - thr - tyr - lys - ser - ser - pro - gln - asp - his - ser - ile - tyr - ile - arg - phe - val - pro - arg -
   - asn - ile - ser - lys - cys - cys - cys - val - ser - his - thr - asn - his - his - arg - arg - thr - ile - val - phe - thr -   ●   -   -   - -fMet - ser - pro - gly -
   -   -   -   -   - -fMet - tyr - his - ile - gln - ile - ile - thr - ala - gly - pro -   ●   -   -   -   -   -   -   -   -   -   -
```

```
         *2588970  *         *2588960  *         *2588950  *         *2588940  *         *2588930  *         *2588920  *         *2588910  *         *2588900  *
5' a g g t a g t c a t c g c a g c a a t c g a g t a a a t t a g c t t c a c c a c g g t a t a t t g t t t c g t a g a a t a c c a t a a t t a t a a g a g a g g 3'
   - arg -   ●   - gly - ser - his - arg - ser - asn - arg - val - asn -   ●   -   -   -   -   - -fMet - phe - pro -   ●   -   -   -   -   ●   -   -   ●   -   -   -
```
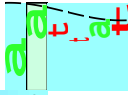
p35 4.8 bits

... sd

... sd-(9)-ir 2588888 Gap
... sd-ir 2588888 ypfM_yffB-

p10 3.3 bits

p35-(21)-p10 2588906 Gap 3.3 bits
p35-p10 2588906 total 4.8 bits

p10 3.3 bits

p35-(24)-p10 2588903 Gap 2.4 bits
p35-p10 2588903 total 5.7 bits

```
         *2588890  *         *2588880  *         *2588870  *
5' t t g t t a t g a t t g a a c g t g a a c t g g g 3'
   -fMet - leu -   ●   - -fMet - asn - val - asn - trp -
   -   -   -   -   -   -   -   -   -   -   -   -   -
   - fMet - ile - glu - arg - glu - leu -
```

... sd   ir ypfM_yffB-

... sd-(9)-ir 2588888 Gap 2.3 bits
... sd-ir 2588888 ypfM_yffB- total 10.9 bits