piece 1, NC_000913, yaiS_tauA-, config: linear, direction: -, begin: 384485, end: 383821

```
        *      *384480   *      *384470   *      *384460   *      *384450   *      *384440   *      *384430   *      *384420   *      *384410   *
5' aagaagtgtgttacgcgatgaaattgccatgattgtctgctcccctgtcttgttatgggagcagtattcaggaataaaaac 3'
    - lys - lys - cys - val - thr - arg -       - fMet - gly - ala - val - phe - arg - asn - lys - asn -
    - arg - ser - val - leu - arg - asp - glu - ile - ala - met - ile - val - cys - ser - pro - val - leu - leu - trp - glu - gln - tyr - ser - gly - ile - lys - thr -
    - glu - val - cys - tyr - ala - met - lys - leu - pro -  -fMet - ser - ala - ala - pro - leu - ser - cys - tyr - gly - ser - ser - ile - gln - glu -   -   -
                                                                        ] NC_000913.tauA
```

```
        *      *384400   *      *384390   *      *384380   *      *384370   *      *384360   *      *384350   *      *384340   *      *384330   *
5' attcattaaaagaattagtcgttatcgcacagatgatttattcttagcaaaaaaacggctaaggaaagattaaatatgca 3'
    - ile - his -       - lys - arg - ile - ser - arg - tyr - arg - thr - asp - asp - phe - ile - leu - ser - lys - lys - thr - ala - lys - glu - arg - leu - asn -
    - phe - ile - lys - arg - ile - ser - arg - tyr - arg - thr - asp - asp - phe - ile - leu - ser - lys - lys - thr - ala - lys - glu - arg - leu - asn - met - gln -
                                                          -fMet - ile - leu - phe - leu - ala - lys - lys - arg - leu - arg - lys - asp -
```

p35  0.5 bits

p10  6.0 bits

sd

... ir

{------------------------------------------------} p35-(24)-p10 384364 Gap 2.4 bits
|-------------------------------------------------| p35-p10 384364 total 4.0 bits
{----------------------} sd-(12)-ir 384328 Gap 4.0 bits
|----------------------| sd-ir 384328 yaiS_tauA- total 9.2 bits

```
        *      *384320   *      *384310   *      *384300   *      *384290   *      *384280   *      *384270   *      *384260   *      *384250   *
5' attactccgttctaacaattgggaaattactacacttcatttttagtgatgcataaacaaccattacgagatttattac 3'
                      -fMet - gly - lys - leu - leu - his - phe - ile - leu - val - met - his - lys - gln - pro - his - tyr - glu - ile - tyr - tyr -
    - leu - leu - arg - ser - asn - asn - trp - glu - asn - tyr - tyr - thr - ser - phe -
```

... ir yaiS_tauA-

[###] orf 17 codons

p35  4.8 bits

{-------------- ... p35-(22)-p10 384227 Gap
|-------------- ... p35-p10 384227 total 5.9

```
        *      *384240   *      *384230   *      *384220   *      *384210   *      *384200   *      *384190   *      *384180   *      *384170   *
5' ttcattattctcatcaatatcaatatcaataaaactattatattcgcattgtatatcactgtatcattctcaatca 3'
    - phe - ile - ile - ser - ile - asn - ile - asn - thr - tyr - asn - lys - thr - ile - ile - phe - ala - leu - tyr - ile - ser - leu - tyr - his - ser - gln - ser -
```

p10  3.4 bits

p10  8.4 bits

p10  6.5 bits

p10  6.3 bits

p10  7.1 bits

... {--------------------------} p35-(22)-p10 384227 Gap 2.3 bits

p35  1.9 bits

... |----------------------------| p35-p10 384227 total 5.9 bits

p35  1.0 bits

p35  1.1 bits

{----------------------------------------------} p35-(26)-p10 384175 Gap 3.7 bits

{--------------------------------} p35-(23)-p10 384214 Gap 1.4 bits
|---------------------------------| p35-p10 384214 total 8.0 bits
{----------------------------} p35-(21)-p10 384203 Gap 3.3 bits
|-----------------------------| p35-p10 384203 total 4.9 bits
{-------------------------------} p35-(24)-p10 384200 Gap 2.4 bits
|--------------------------------| p35-p10 384200 total 5.2 bits
|-----------------------------------------------| p35-p10 384175 total 4.5 bits

```
        *      *384160   *      *384150   *      *384140   *      *384130   *      *384120   *      *384110   *      *384100   *      *384090   *
5' ctcgcatattacattcacataatgtatataaacaatgcttgttcacagaacatatttttaaatgcaattaattgacaaac 3'
    - leu - ala - tyr - tyr - ile - his - ile - met - tyr - ile - asn - asn - ala - cys - ser - gln - asn - ile - phe - phe - lys - cys - asn -    -fMet - thr - asn -
                                                          -fMet - leu - val - his - arg - thr - tyr - phe - leu - asn - ala - ile - asn -
                                    -fMet - phe - thr - glu - his - ile - phe -      -fMet - gln - leu - ile - asp - lys - leu -
```

sd

ir yaiS_tauA-

p35  5.6 bits

[###] orf 14 codons

p35  2.4 bits

{----------------------} sd-(11)-ir 384127 Gap 3.0 bits

p35  3.9 bits

... p10

|-------------------| sd-ir 384127 yaiS_tauA- total 5.5 bits

p35-(22)-p10 384084 Gap 2.3 bits

p10  3.2 bits

|-------------------------------------------| p35-p10 384084 total 5.2 bits

{-------------------------------------} p35-(23)-p10 384130 Gap 1.4 bits

... p10

|-------------------------------------| p35-p10 384130 total 4.2 bits

... p35-(23)-p10 384080 Gap
... p35-p10 384080 total 5.0
... p35-(24)-p10 384079 Gap
... p35-p10 384079 total 4.6

p35  6.4 bits

... p35-(24)-p10 384064 Gap
... p35-p10 384064 total 10.9

*384080     *     *384070     *     *384060     *     *384050     *     *384040     *     *384030     *     *384020     *     *384010     *     *384000
5' taaatcacatctaaatacaatgtataaaacaaaactatacataccaaacatcaaacacttaacatatgaattgcata 3'
                                                                              -fMet - asn - cys - ile -
          -fMet - tyr - lys - thr - lys -
- asn - his - ile -
                                                                              -fMet - his - arg -

p10  1.4 bits

p10   6.9 bits

... p10   3.6 bits

... p10   0.8 bits

... } p35-(23)-p10 384080 Gap 1.4 bits
... | p35-p10 384080 total 5.0 bits
... --} p35-(24)-p10 384079 Gap 2.4 bits
... --| p35-p10 384079 total 4.6 bits

... p35-(24)-p10 384064 Gap 2.4 bits
... p35-p10 384064 total 10.9 bits

*     *383990     *     *383980     *     *383970     *     *383960     *     *383950     *     *383940     *     *383930     *     *383920
5' gaaacattaccagtcgaaccacgggtctgaaagccttgcttttcagttattagcaacattataaattaac 3'
- glu - thr - leu - pro - ser - arg - thr - his - gly - ser - glu - ser - pro - cys - phe - ser - val - ile - ser - asn - ile -
- asn - ile - thr - gln - ser - asn - pro - arg - val -           -fMet - leu - phe - ser - tyr -

p35  5.3 bits

p10  0.2 bits

... p10

} p35-(23)-p10 383937 Gap 1.4 bits
| p35-p10 383937 total 4.1 bits

p35  4.6 bits

p10  5.6 bits

} p35-(21)-p10 383935 Gap 3.3 bits
| p35-p10 383935 total 6.9 bits

p35  0.9 bits

p10  5.7 bits

} p35-(23)-p10 383926 Gap 1.4 bits
| p35-p10 383926 total 5.2 bits

p35   2.0 bits

} p35-(24)-p10 383921 Gap 2.4 bits

| p35-p10 383921 total 5.1 bits

```
         *       *383910      *       *383900      *       *383890      *       *383880      *       *383870      *       *383860      *       *383850      *       *383840
5' a t c t g g c t g c g c c a g a g a t t a c g t c t c t g a g t g c a t c g t t g t g c t t g t a g t a t a a t a a a t a a a a t g g a g t g t c a t t a a g t g 3'
```

-fMet - his - arg - cys - ala - cys - ser - ile - ile - asn - lys - met - glu - cys - his -  -fMet -
          -fMet - leu - val - val -  -  -  -  -  -  -  -fMet - ser - leu - ser - gly -

... p10   5.6 bits                                    p35   2.3 bits                    sd          [----- ... NC_000913.yaiS

p10   7.6 bits

... ir

{----------} sd-(12)-ir 383840 Gap 4.0 bits
|----------| sd-ir 383840 yaiS_tauA- total 9.6 b

{----------} p35-(21)-p10 383858 Gap 3.3 bits
|----------| p35-p10 383858 total 6.6 bits

p35   3.2 bits

{-------- ... p35-(22)-p10 383826 Gap
|-------- ... p35-p10 383826 total 5.6

```
         *       *383830      *
5' g a t a a g g t t t t a g a t t c 3'
```

- asp - lys - val - leu - asp -

... ----------------------------- ... NC_000913.yaiS

... ir yaiS_tauA-

p10   4.7 bits

... {------------------} p35-(22)-p10 383826 Gap 2.3 bits
... |------------------| p35-p10 383826 total 5.6 bits