piece 1, NC_000913, nuoA_TERM39-, config: linear, direction: -, begin: 2403690, end: 2403075

```
   *2403690  *      *2403680  *      *2403670  *      *2403660  *      *2403650  *      *2403640  *      *2403630  *      *2403620  *      *2403610
5' g t a a a a a c g a g c c g c t g g g g g t g t t t t a a a c c c c a g c g g c t t t t t t t t a g t a a a a a t c c t t c a t c g c a t a g t g c a g a a c g 3'
 - val - lys - asn - glu - pro - leu - gly - val - phe -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
       - lys - lys - arg - ala - ala - gly - gly - val - leu - asn - pro - ser - gly - phe - phe - leu - val - lys - ile - leu - his - arg - ile - val - gln - asn - val -
```

p35 4.7 bits
p10 2.0 bits
p10 3.0 bits

p35-(22)-p10 2403643 Gap 2.3 bits
p35-p10 2403643 total 4.3 bits

p35 3.8 bits

p35-(23)-p10 2403622 Gap 1.4 bits
p35-p10 2403622 total 5.4 bits

```
     *      *2403600  *      *2403590  *      *2403580  *      *2403570  *      *2403560  *      *2403550  *      *2403540  *      *2403530
5' t a c a a a a c t g t t c a t t t t c a a c c a c c a g a g a t t c a c g t c c c g a a c g c a c a a a t a a t c g c c t g a a a a a a a t c a c c t g c t a c 3'
 - gln - asn - cys - ser - phe - phe - asn - his - gln - arg - phe - thr - ser - arg - thr - his - lys -   -   -   -   -   -   -   -   -   -   -   -
```

```
     *      *2403520  *      *2403510  *      *2403500  *      *2403490  *      *2403480  *      *2403470  *      *2403460  *      *2403450
5' a a t g a t g t t a a a a a a t a c g t a a a t t t g t t g c t g c g t t t t t g t t a t g g a a t g a c a a a a g c g t g t c a c a g a t c a a g a a a a t a c 3'
 -fMet - met - leu - lys - asn - thr -   -   -fMet - leu - leu - arg - phe - cys - tyr - gly - met - thr - lys - ala - cys - his - arg - ser - arg - lys - tyr -
   -   -   -   -   -   -   -   -   -   -fMet - leu - trp - asn - asp - lys - ser - val - ser - gln - ile - lys - lys - ile - leu -
```

```
     *      *2403440  *      *2403430  *      *2403420  *      *2403410  *      *2403400  *      *2403390  *      *2403380  *      *2403370
5' t c t c t t t t g g g g g g a g g a a t c g a c a c a a a t t c c t g t c a a a a t a g a c c c g t a t t t t t t c c a t t g c t t c a c a a c g g a c a c g a t 3'
 - ser - leu - leu - gly - gly - gly - ile - asp - thr - asn - ser - cys - gln - asn - arg - pro - val - phe - phe - pro - leu - leu - his - asn - gly - his - asp -
       - ser - phe - gly - gly - arg - asn - arg - his - lys - phe - leu - ser - lys -
```

p35 2.2 bits
p10 5.2 bits
p10 2.1 bits

p35-(21)-p10 2403397 Gap 3.3 bits
p35-p10 2403397 total 4.1 bits

p35 5.2 bits

p35-(21)-p10 2403371 Gap 3.3 bits
p35-p10 2403371 total 4.0 bits

p35 5.3 bits

... p35-(25)-p10 2403361 Gap
... p35-p10 2403361 total 4.0

```
     *      *2403360  *      *2403350  *      *2403340  *      *2403330  *      *2403320  *      *2403310  *      *2403300  *      *2403290
5' t c a a c a a c a t c t a a t t a t c c t g g a g t c g t c a a g g a t c t g g g g t g a a a g g g c a t t a a a t g c t a a t g g t g t t g a t a t t a t g t a 3'
 - ser - thr - thr - ser - asn - tyr - pro - gly - val - val - lys - asp - leu - gly -   -   -   -   -   -   -   -   -   -   -   -fMet -
   -   -   -   -   -   -   -   -   -fMet - lys - gly - his -   -   -fMet - leu - met - val - leu - ile - leu - cys - lys -
```

p10 2.7 bits
sd
... ir
p35 2.5 bits

[### ... orf

sd-(11)-ir 2403290 Gap 3.0 bits
sd-ir 2403290 nuoA_TERM39- total 11.6

p35 2.1 bits
p10 7.1 bits

p35-(21)-p10 2403293 Gap 3.3 bits
p35-p10 2403293 total 6.2 bits

... } p35-(25)-p10 2403361 Gap 4.0 bits

... p10

... ---------| p35-p10 2403361 total 4.0 bits

p35-(23)-p10 2403286 Gap 1.4 b
p35-p10 2403286 total 7.2 bits

p35   5.6 bits

... } p35-(25)-p10 2403272 Gap
... p35-p10 2403272 total 4.0

```
 *        *2403280  *       *2403270  *       *2403260  *       *2403250  *       *2403240  *       *2403230  *       *2403220  *       *2403210  *
5' a a c t a a t g t g a a g a a a c t t t t g t t a a a g t t g a c a a a a g g t t a t a g a a a g g a g t a a a a a a c c a c a t c a a t t a g c t g t a t a a a 3'
  -         -       -   -fMet - lys - lys - leu - leu - leu - lys - leu - thr - lys - gly - tyr - arg - lys - glu -  -      -       -       -       -       -       -
  -    - leu - met -    -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -
```

... ir nuoA_TERM39-

... sd

... ▶ orf 2 codons

p10   2.4 bits

... p10   6.5 bits

... } p35-(25)-p10 2403272 Gap 4.0 bits
... | p35-p10 2403272 total 4.0 bits

```
          *2403200  *       *2403190  *       *2403180  *       *2403170  *       *2403160  *       *2403150  *       *2403140  *       *2403130  *
5' a g a a t t t c t a c a g t g a t t g t a a g g t t t t t t t a t t c c t c c c c a t g a a t c g a t g t g g c g t c c a t c t g c c g t g a a g a g c a g t g 3'
  -       -       -       -   -fMet - ile - val - arg - phe - phe - leu - phe - leu - pro - met - asn - arg - cys - gly - val - his - leu - pro -  -      -   -fMet -
  -       -       -       -       -fMet -     -       -       -       -       -       -       -  -fMet - ala - ser - ile - cys - arg - glu - glu - gln -  -      -
  -                                                                                          -fMet - trp - arg - pro - ser - ala - val - lys - ser - ser - glu -
```

... sd

... ir nuoA_TERM39-

[###▶ orf 20 codons

{ --------------- } sd-(11)-ir 2403192 Gap 3.0 bits
| --------------- | sd-ir 2403192 nuoA_TERM39- total 5.1 bits

p35   4.4 bits

p10   3.2 bits

{ --------------------------------- } p35-(24)-p10 2403175 Gap 2.4 bits
| --------------------------------- | p35-p10 2403175 total 5.1 bits

```
          *2403120  *       *2403110  *       *2403100  *       *2403090  *       *2403080  *
5' a a t c t g g c g c t a c t t t t g a t g a g t a a g c a a t g a g t a t g t c a a c a t c c a c 3'
  - asn - leu - ala - leu - leu - leu - met - ser - lys - gln -  -      -       -       -       -
  -   - ser - gly - ala - thr - phe - asp - glu -   -  -fMet - ser - met - ser - thr - ser -
```

... sd

[--------------------------------- ... NC_000913.nuoA

ir nuoA_TERM39-

sd-(9)-ir 2403094 Gap 2.3 bits
sd-ir 2403094 nuoA_TERM39- total 9.9 bits
p35   4.7 bits
p10   2.7 bits
p35-(24)-p10 2403083 Gap 2.4 bits
p35-p10 2403083 total 5.0 bits