piece 1, NC_000913, ybcW_nohB-, config: linear, direction: -, begin: 580086, end: 579290

```
        *      *580080   *     *580070   *     *580060   *     *580050   *     *580040   *     *580030   *     *580020   *     *580010
5' g t c a g c c a g c t g c t t t t g t t g a c t t c c a t t g c a c a t t c c a c g g a c a a a a a c a g a g a a a g g a a a c g a c a g a g g c c a a a a a g 3'
  - val - ser - gln - leu - leu - phe - val - asp - phe - his - cys - thr - phe - his - gly - gln - lys - arg - glu - arg - lys - arg - gln - arg - pro - lys - ser -
  - ser - ala - ser - cys - phe - leu - leu - thr - ser - ile - ala - his - ser - thr - asp - lys - asn - arg - glu - arg - lys - arg - gln - arg - pro - lys - ser -
  - gln - pro - ala - ala - phe - cys -  ●  -   -   - -fMet - his - ile - pro - arg - thr - lys - thr - glu - lys - gly - asn - asp - arg - gly - gln - lys - ala -
  ...------------------------------------------------] NC_000913.nohB
```
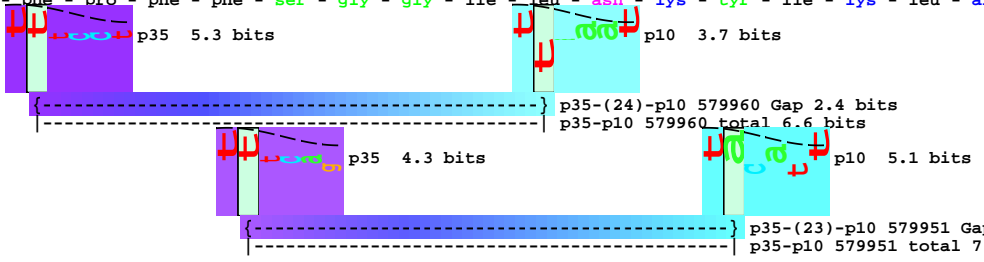
```
        *      *580000   *     *579990   *     *579980   *     *579970   *     *579960   *     *579950   *     *579940   *     *579930   *
5' c t c g c t t t c a g c a c c t g t c g t t t c c t t t c t t t t c a g g g g g t a t t t t a a a t a a a t a c a t t a a g t t a c g a c g a a g a a g a a c g g 3'
  - leu - ala - phe - ser - thr - cys - arg - phe - leu - ser - phe - gln - gly - val - phe -   -   -   -   -   -   -   -   -   -   -   -
  - ser - leu - ala - pro - val - val - ser - phe - leu - phe - arg - gly - gly - tyr - phe - lys -  ●  -   -   -   -   -   -   -   -   -
  - arg - phe - gln - his - leu - ser - phe - pro - phe - phe - ser - gly - gly - ile - leu - asn - lys - tyr - ile - lys - leu - arg - arg - arg - arg - thr - glu -
```
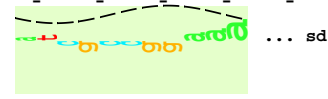
p35 5.3 bits   p10 3.7 bits

{---} p35-(24)-p10 579960 Gap 2.4 bits
|--| p35-p10 579960 total 6.6 bits

p35 4.3 bits   p10 5.1 bits

{---} p35-(23)-p10 579951 Gap 1.4 bits
|--| p35-p10 579951 total 7.9 bits

```
        *      *579920   *     *579910   *     *579900   *     *579890   *     *579880   *     *579870   *     *579860   *     *579850   *
5' a a a c a c c t t a a a c c g g a a a a t t t t c a t a a t a g c g a a a a c c c g c g a g g t c g c c g c c c c g t a a c c t g t c g g a t c g c c g a a a 3'
  -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
  - thr - pro -  ●  -   -   -   -   -   -   ●  -   -   -   -   -   -   -   -  ●  -   -   -   -
```

... sd

```
        *      *579840   *     *579830   *     *579820   *     *579810   *     *579800   *     *579790   *     *579780   *     *579770   *
5' g g a c c a c a a a a t g a t a a t a a t t a t c a t c t a c a t g t c a c a a g t g c a t c t a c g c c a t c a a a c c a c g t c a a a t a a t c a a t t a 3'
                                                                       -fMet - his - leu - arg - his - gln - thr - thr - ser - asn - asn - gln - leu -
  -   -   -   -   -   -  -fMet - ile - ile - ile - ile - ile - tyr - met - ser - gln - arg - ala - ser - his - pro - ser - asn - his - val - lys -  ●  -   -   -fMet -
... sd                  ir ybcW_nohB-                                                                                               [###> orf 21 codons
```
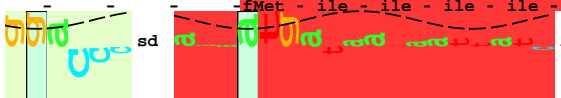
{-------------} sd-(10)-ir 579832 Gap 2.7 bits
|------------------| sd-ir 579832 ybcW_nohB- total 10.8 bits

```
        *      *579760   *     *579750   *     *579740   *     *579730   *     *579720   *     *579710   *     *579700   *     *579690   *
5' t g a c g c a g g t a t c g t a t t a a t t g a t c t g c a t c a a c t t a a c g t a a a a a c a a c t t c a g a c a a t a c a a a t c a g c g a c a c t g a a t 3'
  -  ●  -   -   -   -   -   -   ●  -   -   -   -   ●  -   -   -   -   -   -   -   -   -   -   -   -   ●  -   -
  - thr - gln - val - ser - tyr -  ●  - -fMet - ile - cys - ile - asn - leu - thr -  ●  -   -   -   -   -   -   -   -   -   -   -
```

... sd

```
        *      *579680   *     *579670   *     *579660   *     *579650   *     *579640   *     *579630   *     *579620   *     *579610   *
5' a c g g g c g a a c c t c a t g t c a a c t a a g a a c a g a a c c c g c a g a a c a a c a a c c c g c a a c a t c c g c t t t c c t a a c c a a a t g a t t g a 3'
  -   -   -   -   -   -  ●  -   -   -   -   -   -   -   -   -   -   -   -   -   -  ●  -   ●  -   -   -   -
  - -fMet - ser - thr - lys - asn - arg - thr - arg - arg - thr - thr - thr - arg - asn - ile - arg - phe - pro - asn - gln - met - ile - glu -
                                                                                                                          - -fMet - asn -
... sd                                                                                          p35  5.3 bits
```
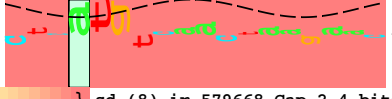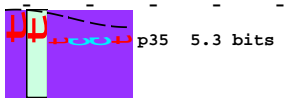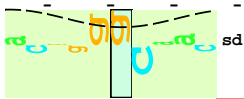
ir ybcW_nohB-

{-------} sd-(8)-ir 579668 Gap 2.4 bits
|----------| sd-ir 579668 ybcW_nohB- total 7.6 bits

{--} ... p35-(21)-p10 579598 Gap
|--| ... p35-p10 579598 total 4.8
{--} ... p35-(26)-p10 579593 Gap
|--| ... p35-p10 579593 total 7.2

*579600 * *579590 * *579580 * *579570 * *579560 * *579550 * *579540 * *579530 * *579520

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

- gln - ile - asn - ile - ala - leu - glu - gln - lys - gly - ser - gly - asn - phe - ser - ala - trp - val - ile - glu - ala - cys - arg - arg - arg - leu - thr -
- lys - leu - thr - ser - leu - leu - ser - lys - lys - gly - pro - gly - ile - ser - gln - pro - gly - ser - leu - lys - pro - ala - val - gly - gly -

p10   2.8 bits
p35   5.5 bits
... p10

... ----} p35-(21)-p10 579598 Gap 3.3 bits
... ----| p35-p10 579598 total 4.8 bits
... ----} p35-(26)-p10 579593 Gap 3.7 bits
... ----| p35-p10 579593 total 7.2 bits
p10   5.6 bits

{--} p35-(21)-p10 579522 Gap 3.3 bits
|--| p35-p10 579522 total 5.3 bits

* *579510 * *579500 * *579490 * *579480 * *579470 * *579460 * *579450 * *579440

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

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

... p10   3.1 bits
sd
[###> orf 65 codons
p35   0.8 bits

ir ybcW_nohB-

{----------------} sd-(10)-ir 579477 Gap 2.7 bits
|----------------| sd-ir 579477 ybcW_nohB- total 8.1 bits

{--- ... p35-(24)-p10 579435 Gap
|--- ... p35-p10 579435 total 4.1

* *579430 * *579420 * *579410 * *579400 * *579390 * *579380 * *579370 * *579360

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

- cys - lys - phe - thr -   -fMet - gln - phe - tyr - his - phe - pro - asp - ser - asp - arg - leu - arg - val -
-fMet - gln -   -fMet - ser - cys - ser - phe - thr - thr - phe - leu - thr - val - thr - asp - cys - val - leu -

[###> orf 18 codons
p35   5.2 bits
p10   0.6 bits
p10   2.6 bits
p10   5.7 bits

{---------------------------------} p35-(23)-p10 579388 Gap 1.4 bits

... ------} p35-(24)-p10 579435 Gap 2.4 bits
|--| p35-p10 579388 total 4.4 bits
p35   3.2 bits

... ------| p35-p10 579435 total 4.1 bits

{-------------------------------------} p35-(23)-p10 579368 Gap 1.4 bits
|-------------------------------------| p35-p10 579368 total 4.4 bits

* *579350 * *579340 * *579330 * *579320 * *579310 * *579300 * *579290

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

- gly - ser - val - thr - gly -   -fMet - asn - asp -   -fMet
- ala - leu - ser - gln - val - lys -   -fMet - ile - ser - ser - tyr - gly - asp - gln - ser - thr - thr - arg - glu -
-fMet - val - ile - ser - gln - pro - pro - gly - asn -

sd
<--- ... NC_000913.ybcW

ir ybcW_nohB-

{----------------} sd-(11)-ir 579316 Gap 3.0 bits
|----------------| sd-ir 579316 ybcW_nohB- total 5.2 bits