- 1 -

piece 1, NC_000913, ybcV_ybcW+, config: linear, direction: +, begin: 578788, end: 579122

```
    *578790    *        *578800    *        *578810    *        *578820    *        *578830    *        *578840    *        *578850    *        *578860    *
5' t a t t t c t t t a a a a a t g g c a a c c t g a g c c a t t g g t a a a a c c t t c c a t g t g a t a c g a g g g c g c g t a g t t t g c a t t a t c g t t t t 3'
  - tyr - phe - phe - lys - asn - gly - asn - leu - ser - his - trp -  -   -   -   -   -   -   -   -fMet - ile - arg - gly - arg - val - val - cys - ile - ile - val - phe -
      - ile - ser - leu - lys - met - ala - thr - leu - ser - met -   -   -   -   -fMet - ile - arg - gly - arg - val - val - cys - ile - ile - val - phe -
         - phe - leu -   -   -   -   -   -   -fMet - val - lys - pro - ser - met -   -   -   -   -   -   -   -   -   -   -   -   -
... ---------------------------------------------------------] NC_000913.ybcV
```
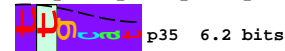
p35 6.2 bits

... p35-(21)-p10 578876 Gap
... p35-p10 578876 total 5.9
... p35-(23)-p10 578878 Gap
... p35-p10 578878 total 7.1

```
    *578870    *        *578880    *        *578890    *        *578900    *        *578910    *        *578920    *        *578930    *        *578940    *
5' t a t c g c t t c a a t c t g g t c t g a c c t c t t t g t g t t t t g t t g a t g a t t t a t g t c a a a t a t t a g g a a t g t t t t c a a t t a a t a g t a 3'
  - tyr - arg - phe - asn - leu - val -   -   -   -   -   -   -fMet - leu - met - ile - tyr - val - lys - tyr -   -   -   -   -   -   -
     - ile - ala - ser - ile - trp - ser - asp - leu - phe - val - cys -   -fMet - ser - asn - ile - arg - asn - val - phe - asn -
                           -fMet - cys - phe - val - asp - asp - leu - cys - gln - ile - leu - gly - met - phe - ser - ile - asn - ser - ile -
```
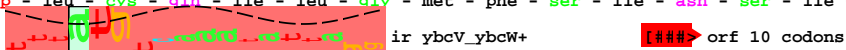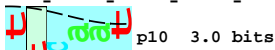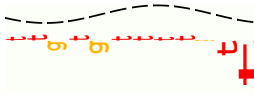
p10 3.0 bits

ir ybcV_ybcW+

[###> orf 10 codons

sd

... p35-(21)-p10 578876 Gap 3.3 bits

p10 3.0 bits

... p35-p10 578876 total 5.9 bits
... p35-(23)-p10 578878 Gap 1.4 bits

{----------------} sd-(8)-ir 578915 Gap 2.4 bits
|----------------| sd-ir 578915 ybcV_ybcW+ total 5.7 bits

... p35-p10 578878 total 7.1 bits

p35 3.8 bits

p10 2.3 bits

{---} p35-(24)-p10 578937 Gap 2.4 bits

|---| p35-p10 578937 total 4.4 bits

```
    *578950    *        *578960    *        *578970    *        *578980    *        *578990    *        *579000    *        *579010    *        *579020    *        *579030
5' t t g g t t g c g t a a c a a a g t g c g g t g c t c t g c t g g c a t t c t g g a g g g a a a t a c a a c c g a c a g a t g t a t g t a a g g c c a a c g t g c t c 3'
  -fMet - val - ala -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - leu -
      -fMet - arg - asn - lys - val - arg - ser - cys - trp - his - ser - gly - gly - lys - tyr - asn - arg - gln - met - tyr - val - arg - pro - thr - cys - ser -
         - gly - cys - val - thr - lys - cys - gly - pro - ala - gly - ile - leu - glu - gly - asn - thr - thr - asp - arg - cys - met -
```
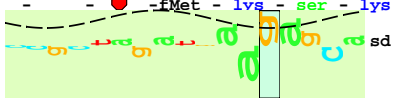
```
    *        *579040    *        *579050    *        *579060    *        *579070    *        *579080    *        *579090    *        *579100    *        *579110    *
5' a a a c c t t c a t a c a g a a a g a t t t g a a g t a a t a t t t t a a c c g c t a g a t g a a g c a a g c g c a t g g a g c g a c a a a a t g a a t a a a 3'
  - lys - pro - ser - tyr - arg - lys - ile -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - glu - lys -
      - asn - leu - his - thr - glu - arg - phe - glu - val - ile - phe -   -   -   -   -   -fMet - lys - ser - lys - arg - met - glu - arg - gln - asn - glu -
                              -fMet - lys -   -   -   -   -   -   -fMet - lys - ser - lys - arg - met - glu - arg - gln - asn - glu -
```

sd

[----------------- ... NC_000913.ybcW

ir ybcV_ybcW+

{----------------} sd-(10)-ir 579090 Gap 2.7 bits
|----------------| sd-ir 579090 ybcV_ybcW+ total 5.5 bits

[###> orf 7 codons

sd

... ir
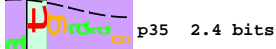
p35 2.4 bits

{--------------------} sd-(10)-ir 579103 Gap 2.7 bits

|--------------------| sd-ir 579103 ybcV_ybcW+ total 11.1 bits

p10 4.7 bits
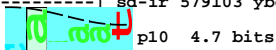
```
                                   {-------------------------------------------} p35-(24)-p10 579100 Gap 2.4 bits
                                   |-------------------------------------------| p35-p10 579100 total 4.7 bits

              *           *579120
         5' g a a c a a t c t g c 3'
           - glu -  gln -  ser -
              -     -     -     -
     ... --------------------- ... NC_000913.ybcW


     ...              ir ybcV_ybcW+
```