piece 1, NC_000913, ygaQ_csiD-, config: linear, direction: -, begin: 2787036, end: 2786652
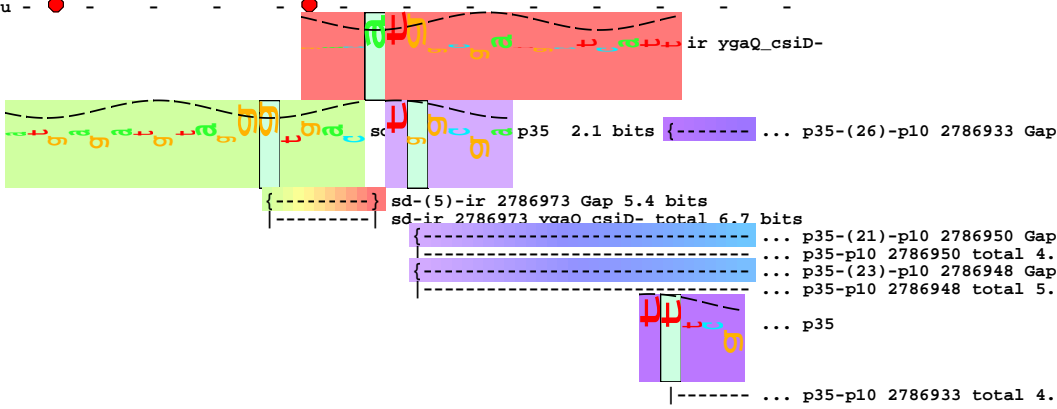
```
          *       *2787030  *       *2787020  *       *2787010  *       *2787000  *       *2786990  *       *2786980  *       *2786970  *       *2786960
5' g t t a t t t t g t a c g g c g g t c a g t g c a t t c a t c a g a a g c g a t c c t c t t a t g a g a t g t a g g g t g a c a t g g c g a t g c t c a t t c g 3'
   -  - val - ile - leu - tyr - gly - gly - gln - cys - ile - his - gln - lys - arg - ser - ser - tyr - glu - met -  ● -  -  -fMet - ala - met - leu - ile - ser -
   -  - leu - phe - cys - thr - ala - val - ser - ala - phe - ile - arg - ser - asp - pro - leu - met - arg - cys - arg - val - thr - trp - arg - cys - ser - phe - arg
   -  - tyr - phe - val - arg - arg - ser - val - his - ser - ser - glu - ala - ile - leu - leu -  ● -  -  -  -  -  -  -  -  -  -  -
```
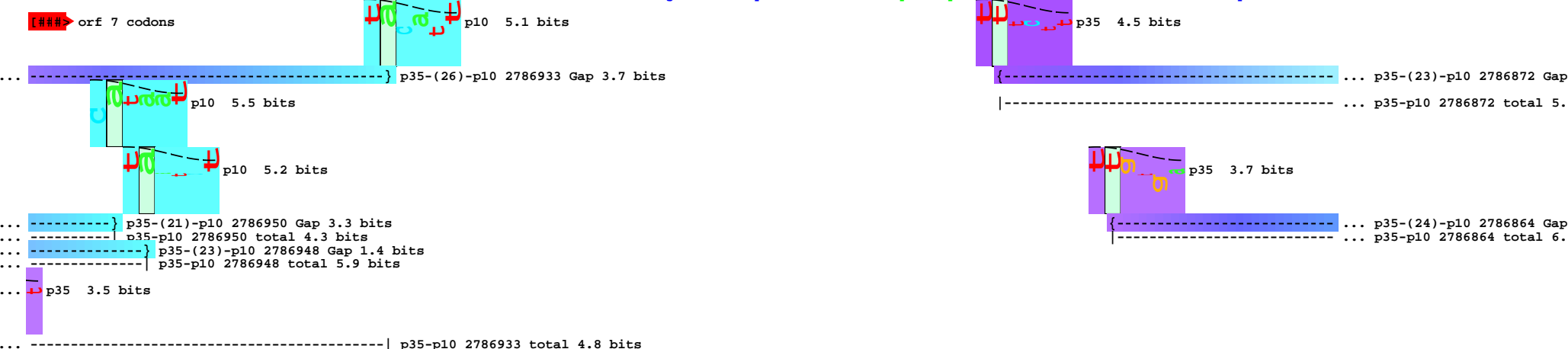
ir ygaQ_csiD-

sd   p35   2.1 bits   {-------- ... p35-(26)-p10 2786933 Gap

{---------} sd-(5)-ir 2786973 Gap 5.4 bits
|---------| sd-ir 2786973 ygaQ_csiD- total 6.7 bits

{-------------------------------- ... p35-(21)-p10 2786950 Gap
|-------------------------------- ... p35-p10 2786950 total 4.3
{-------------------------------- ... p35-(23)-p10 2786948 Gap
|-------------------------------- ... p35-p10 2786948 total 5.9

... p35

|-------- ... p35-p10 2786933 total 4.8

```
          *       *2786950  *       *2786940  *       *2786930  *       *2786920  *       *2786910  *       *2786900  *       *2786890  *       *2786880  *
5' t a g c c a t a a t c t a a a a a t a t c t a c a t t t c t g a a a a a t g c g c a c a a a g c g a c a t a t t g t t t t c t t a t t g t g a t c a a a g c a 3'
   -  -  - ser - his - asn - leu - lys - ile - ser - thr - phe - leu - lys - asn - ala - his - lys - ser - asp - ile - leu - phe - ser - tyr - cys - asp - gln - lys - gln -
   -  -  -  -  -  -  -  -  -  -  - -fMet - arg - thr - lys - ala - thr - tyr - cys - phe - leu - ile - val - ile - lys - ser - asn -
```

[###> orf 7 codons

p10 5.1 bits   p35 4.5 bits

... ----------------------} p35-(26)-p10 2786933 Gap 3.7 bits   {-------------------- ... p35-(23)-p10 2786872 Gap

p10 5.5 bits |-------------------------------------- ... p35-p10 2786872 total 5.9

p10 5.2 bits   p35 3.7 bits

... -------} p35-(21)-p10 2786950 Gap 3.3 bits   {-------------------- ... p35-(24)-p10 2786864 Gap
... -------| p35-p10 2786950 total 4.3 bits |-------------------------- ... p35-p10 2786864 total 6.8
... -------} p35-(23)-p10 2786948 Gap 1.4 bits
... -------| p35-p10 2786948 total 5.9 bits

... - p35   3.5 bits

... ------------------------------------| p35-p10 2786933 total 4.8 bits

```
          *2786870  *       *2786860  *       *2786850  *       *2786840  *       *2786830  *       *2786820  *       *2786810  *       *2786800  *
5' a c a a a t t a g t a a c a t t t a a c g t a g g g t a t t a a g g c a a a g t g a g a c a g g a a a t g a a t a a c t a a a g c a a c a g g t t a g g g g g a g 3'
   -  - gln - ile - ser - asn - ile -  -  -  -  -  -  -  -  - -fMet - arg - gln - glu - met - asn - asn -  -  -  -  -  -  -  -  -  -
   -  - lys - leu - val - thr - phe - asn - val - gly - tyr -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -
```
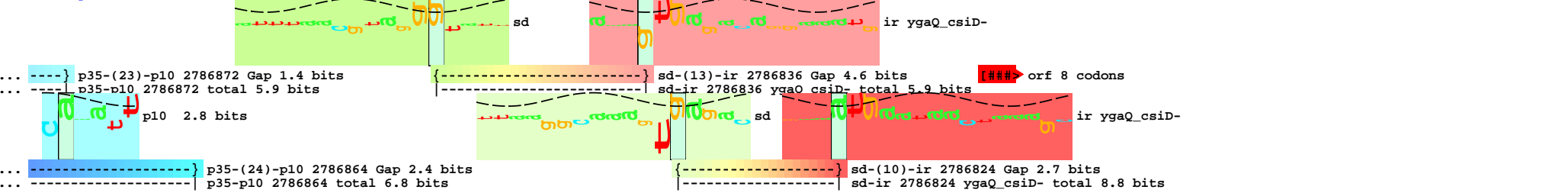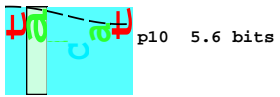
sd   ir ygaQ_csiD-   ir ygaQ_csiD-

... -------} p35-(23)-p10 2786872 Gap 1.4 bits   {--------------------} sd-(13)-ir 2786836 Gap 4.6 bits   [###> orf 8 codons
... -------| p35-p10 2786872 total 5.9 bits |--------------------| sd-ir 2786836 ygaQ_csiD- total 5.9 bits

p10 2.8 bits   sd

... -------} p35-(24)-p10 2786864 Gap 2.4 bits   {--------------------} sd-(10)-ir 2786824 Gap 2.7 bits
... -------| p35-p10 2786864 total 6.8 bits |--------------------| sd-ir 2786824 ygaQ_csiD- total 8.8 bits

p10   5.6 bits

```
        *2786790  *        *2786780  *        *2786770  *        *2786760  *        *2786750  *        *2786740  *        *2786730  *        *2786720  *
5' t t a a c a t t a g a g a a c a g a t t a t c t g g t c g a t a a a a a a c a g t a a a t g g c t t c a c t g c a a a a t g a c g t t a g t a a c t a a a c a 3'
```
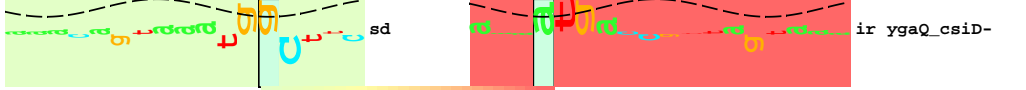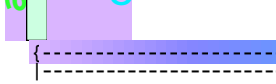
-fMet - ala - ser - leu - gln - asn - asp - arg -

-fMet - thr - val - ser - lys - leu - asn - ile -

sd

ir ygaQ_csiD-

{-------------------} sd-(13)-ir 2786734 Gap 4.6 bits
|-------------------| sd-ir 2786734 ygaQ_csiD- total 6.5 bits

p35   3.2 bits

p10   6.5 bits

{--} p35-(26)-p10 2786722 Gap 3.7 bits
|--| p35-p10 2786722 total 6.0 bits

p35   1.9 bits

{-------------------------------... p35-(22)-p10 2786711 Gap
|-------------------------------... p35-p10 2786711 total 6.6

```
        *2786710  *        *2786700  *        *2786690  *        *2786680  *        *2786670  *        *2786660  *
5' t a t t a t c t g c c c c g t t t t a t c g g g g c a g a t a t a a c a t t a a a t t a t a a a t a g a g a t a g t t c g 3'
```
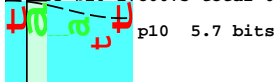
- leu - ser - ala - pro - phe - lys - arg - gly - arg - tyr - asn - ile - lys - leu -

p10   7.1 bits

p35   4.8 bits

[###> orf 23 codons

p35   3.3 bits

p10   3.7 bits

{-----------------------------} p35-(22)-p10 2786675 Gap 2.3 bits
|-----------------------------| p35-p10 2786675 total 6.1 bits

p10   5.7 bits

{-----------------------------} p35-(23)-p10 2786674 Gap 1.4 bits
|-----------------------------| p35-p10 2786674 total 9.1 bits

... --} p35-(22)-p10 2786711 Gap 2.3 bits

p10   3.3 bits

... --| p35-p10 2786711 total 6.6 bits

{-----------------------------------} p35-(24)-p10 2786672 Gap 2.4 bits
|-----------------------------------| p35-p10 2786672 total 4.2 bits