piece 1, NC_000913, kdpF_ybfA+, config: linear, direction: +, begin: 728015, end: 728376
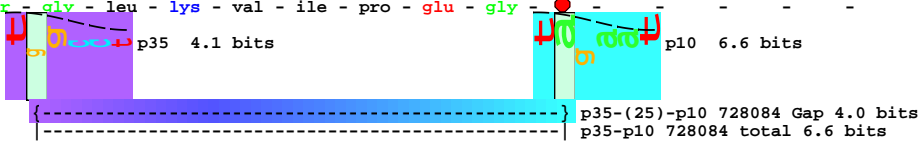
```
         *       *728020    *        *728030    *        *728040    *        *728050    *        *728060    *        *728070    *        *728080    *        *728090    *
5'  c a a t a c g c c g g t t a t c a c g c c t g c a c t c a c a g t g c a c c t c c a g t g g c c t a a a a g t g a t a c c g g a a g g g t a g a a t t c t g g c t  3'
    -   gln - tyr - ala - gly - tyr - his - ala - cys - thr - his - ser - ala - pro - pro - val - ala -   -   -   lys - ser - asp - thr - gly - arg - val - glu - phe - trp - leu -
        -   ile - arg - arg - leu - ser - arg - leu - his - ser - gln - cys - thr - ser - ser - gly - leu - lys - val - ile - pro - glu - gly -   -   -   -   -   -   -
...  -----------------------------------------------------]  NC_000913.kdpF
```
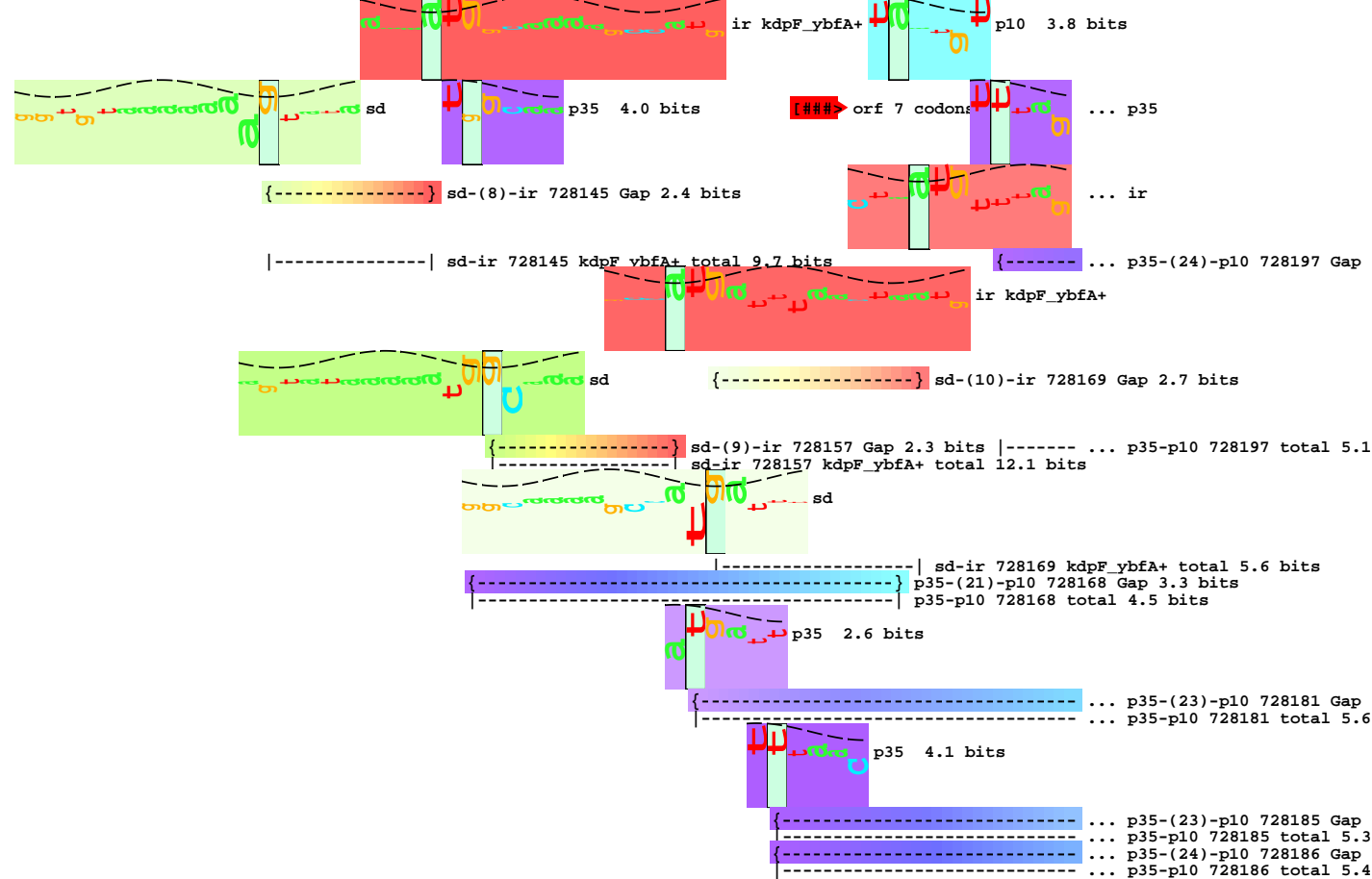
p35 4.1 bits   p10 6.6 bits

{--} p35-(25)-p10 728084 Gap 4.0 bits
|--| p35-p10 728084 total 6.6 bits

```
         *728100    *        *728110    *        *728120    *        *728130    *        *728140    *        *728150    *        *728160    *        *728170    *
5'  g c a a a g a t t c c g c a a a a a t c t g c g g g c g g g g t g t a a a a a a g t a t a a a a a t g g c a a a a g c c a t g a t t a a c t a a t g t t t a g  3'
    -   -   -   -   -   -   -   -   -   -   -fMet -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - phe - ser -
    -   gln - arg - phe - arg - lys - asn - leu - arg - ala - gly - cys - lys - lys - ser - ile - lys - met - ala - lys - ala - met - ile -   -   -
```

ir kdpF_ybfA+   p10 3.8 bits

sd   p35 4.0 bits   [###> orf 7 codons   ... p35

... ir

{-----------------} sd-(8)-ir 728145 Gap 2.4 bits   {----- ... p35-(24)-p10 728197 Gap

ir kdpF_ybfA+

|------------| sd-ir 728145 kdpF_ybfA+ total 9.7 bits

sd   {------------------} sd-(10)-ir 728169 Gap 2.7 bits

{----------} sd-(9)-ir 728157 Gap 2.3 bits |------- ... p35-p10 728197 total 5.1
|------------| sd-ir 728157 kdpF_ybfA+ total 12.1 bits

sd

|------------| sd-ir 728169 kdpF_ybfA+ total 5.6 bits
{----------------} p35-(21)-p10 728168 Gap 3.3 bits
|----------------| p35-p10 728168 total 4.5 bits

p35 2.6 bits

{------------------- ... p35-(23)-p10 728181 Gap
... p35-p10 728181 total 5.6

p35 4.1 bits

{------------------- ... p35-(23)-p10 728185 Gap
... p35-p10 728185 total 5.3
{------------------- ... p35-(24)-p10 728186 Gap
... p35-p10 728186 total 5.4

```
         *728180    *        *728190    *        *728200    *        *728210    *        *728220    *        *728230    *        *728240    *        *728250    *
5'  t a t t a a t t t a c t t t t g t g t a a c t t a a t t a c a g g a t g a a t g t a a a t a a c c a t c a a t a a g c a a t a a g t g g t c g g a t g a  3'
    -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - asn - val - asn - lys - pro - ser - ile - ser - lys - asn - lys - trp - ser - arg - asp - glu -   -fMet - val - gly -
    -   ile - asn - leu - thr - phe - val -   -   -   -   -fMet - cys - asn - leu - ile - thr - gly -   -   -fMet -   -   -   -   -   -   -   -   -   -   -   -fMet - ser -
```

p10 4.4 bits   [###> orf 10 codons   ir kdpF_ybfA+   p10 3.8 bits   ... ir

... p35 3.8 bits   p10 3.7 bits   sd   [###> orf 2 codons   sd

... ir kdpF_ybfA+   p10 3.7 bits   {---------} sd-(5)-ir 728215 Gap 5.4 bits   {---------} sd-(8)-ir 728254 Gap 2.4 bits

... {---------------------------} p35-(24)-p10 728197 Gap 2.4 bits   p35 3.4 bits |---------------| sd-ir 728254 kdpF_ybfA+ total 5.6 bi

p10 2.6 bits |----------| sd-ir 728215 kdpF_ybfA+ total 10.3 bits

... ------------------------------------| p35-p10 728197 total 5.1 bits   {---------------------------------} p35-(22)-p10 728239 Gap 2.3 bits
                                                                            |---------------------------------| p35-p10 728239 total 4.9 bits

... {----------} p35-(23)-p10 728181 Gap 1.4 bits
... --------| p35-p10 728181 total 5.6 bits

... {--------------} p35-(23)-p10 728185 Gap 1.4 bits
... --------| p35-p10 728185 total 5.3 bits
... {--------------} p35-(24)-p10 728186 Gap 2.4 bits
... ---------------| p35-p10 728186 total 5.4 bits

```
      *728260    *       *728270    *      *728280   *        *728290    *       *728300    *       *728310    *       *728320    *       *728330    *
5' g t a g t a a a t t a c a c a a a a g g c g g t a c t a t t t t c a t c a g a t a a a c a a t t c a t t t t t c c g g t g c c a t t c a c c g g g t a g a t a 3'
```

              -fMet - pro - phe - thr - gly -
ser - lys - ile - thr - gln - lys - ala - val - leu - phe - ser - ser - asp - lys - gln - ile - his - phe - ser - gly - ala - ile - his - arg - val - asp - thr -

... ir kdpF_ybfA+   p10 5.6 bits   ... sd

p35 1.4 bits

      {---------------------------------} p35-(23)-p10 728283 Gap 1.4 bits
      |---------------------------------| p35-p10 728283 total 5.6 bits

```
      *728340    *       *728350    *       *728360    *       *728370    *
5' c a a a a g g g g g a g a a a a g t a t g g a a c t c t a c a g a g a a t a 3'
```

                          -fMet - glu - leu - tyr - arg - glu -
lys - gly - gly - glu - lys - tyr - gly - thr - leu - gln - arg - ile -

... sd   [------------------------------------- ... NC_000913.ybfA

ir kdpF_ybfA+

{---------------} sd-(9)-ir 728357 Gap 2.3 bits
|-----------------| sd-ir 728357 kdpF_ybfA+ total 12.2 bits