piece 1, NC_000913, sthA_fabR-, config: linear, direction: -, begin: 4159176, end: 4158794

```
         *      *4159170  *        *4159160  *        *4159150  *        *4159140  *        *4159130  *        *4159120  *        *4159110  *        *4159100
5' t t t t t c t t t t t g t t g c g c t c t t a c g c c c a t c a c g a t g t c t g a a t c c t t g c c a a a a g t a c t g c t g g c a c t a t a c c a g a g a a t 3'
   - phe - phe - phe - leu - leu - arg - ser - tyr - ala - his - his - asp - val -   -   -   -   -   -   -   -   -   -   -   -   -
   - phe - ser - phe - cys - cys - ala - leu - thr - pro - ile - thr - met - ser - glu - ser - leu - pro - lys - val - leu - leu - ala - leu - tyr - gln - arg - met -
       - phe - leu - phe - val - ala - leu - leu - arg - pro - ser - arg - cys - leu - asn - pro - cys - gln - lys - tyr - cys - trp - his - tyr - thr - arg - glu -
... ---------------------------------------------------------------------------------------------------------------------------------------- ... NC_000913.fabR
```
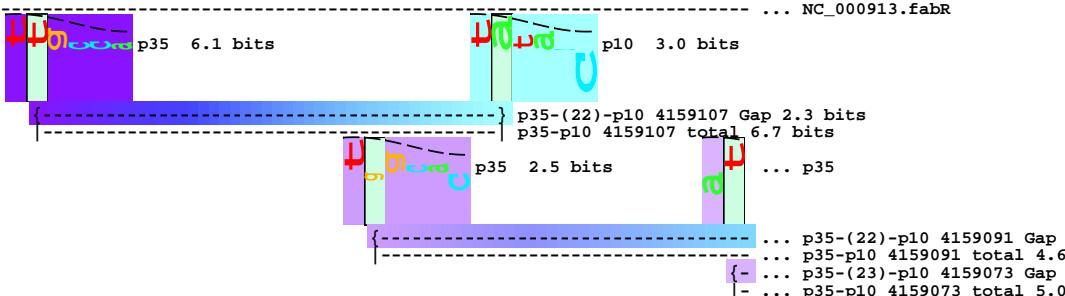
p35   6.1 bits
p10   3.0 bits
p35-(22)-p10 4159107 Gap 2.3 bits
p35-p10 4159107 total 6.7 bits
p35   2.5 bits
... p35
... p35-(22)-p10 4159091 Gap
... p35-p10 4159091 total 4.6
{- ... p35-(23)-p10 4159073 Gap
| ... p35-p10 4159073 total 5.0

```
         *      *4159090  *        *4159080  *        *4159070  *        *4159060  *        *4159050  *        *4159040  *        *4159030  *        *4159020  *
5' g a a c a t a c t g g a t t g c t c c a g t a t t g t g a a t g a a c g g t a a c g c a a t a a a a c a t a t t t a c t g c a a t t c t t t g g c c g g t t c t t 3'
   -   -   -   -   -   - fMet - leu - gln - tyr - cys - glu -   -   -   -   -   -   -   -   -   -   -   -   -   -
   - asn - ile - leu - asp - cys - ser - ser - ile - val - asn - glu - arg -   -   -   -   -   -   -   -   -   -   -
               - fMet -   - fMet - asn - gly - asn - ala - ile - lys - his - ile - tyr - cys - asn - ser - leu - ala - gly - ser - phe -
... ----------] NC_000913.fabR
```
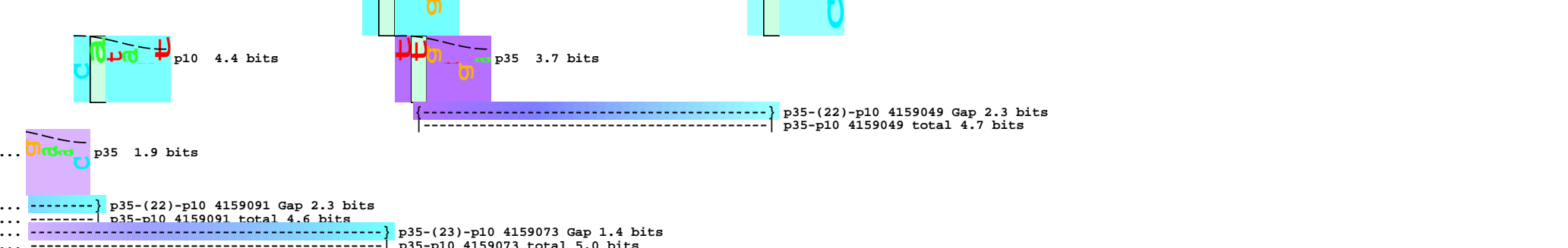
p10   4.6 bits
p10   3.3 bits
p10   4.4 bits
p35   3.7 bits
p35-(22)-p10 4159049 Gap 2.3 bits
p35-p10 4159049 total 4.7 bits
... p35   1.9 bits
... --------} p35-(22)-p10 4159091 Gap 2.3 bits
... --------| p35-p10 4159091 total 4.6 bits
... p35-(23)-p10 4159073 Gap 1.4 bits
... --------} p35-p10 4159073 total 5.0 bits

```
         *      *4159010  *        *4159000  *        *4158990  *        *4158980  *        *4158970  *        *4158960  *        *4158950  *        *4158940  *
5' t t a c g t a c a g c g g a a a c c t g c c g c t t a a a c g g a g a g t a t c g t c g a t a a a a a t c c a a t a a a a c g t c a g g g c a a a a g t a a g a a 3'
   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
   - thr - tyr - ser - gly - asn - leu - pro - leu - lys - arg - arg - val - ser - ser - ile - lys - ile - gln -   -   -   -   -   -   -
```
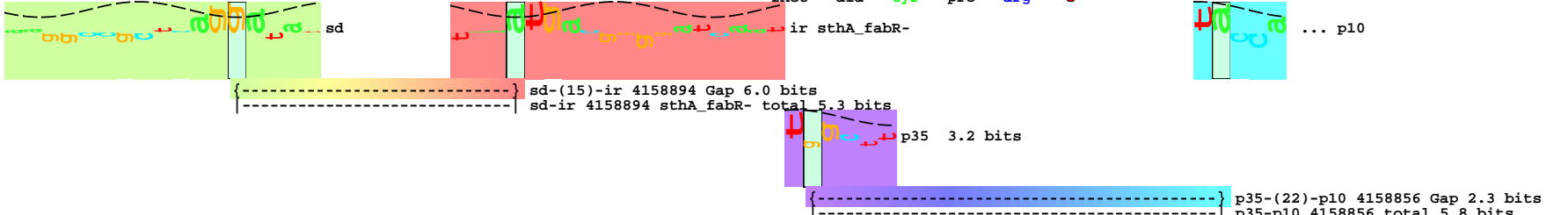
```
         *      *4158930  *        *4158920  *        *4158910  *        *4158900  *        *4158890  *        *4158880  *        *4158870  *        *4158860  *
5' a c a g a c a a a g c a a a g g c c g c t c a g g a t a t a g c c a g a t a a a t g a c g g g a t c a a t t g g c t t a c c c g c g a t a a a a t g t t a c c a 3'
   -   -   -   -   -   -   -   -   -   -   - fMet - thr - gly - ile - asn - trp - leu - thr - arg - asp - lys - met - leu - pro -
                         - fMet - ala - tyr - pro - arg -   -   -   -   -
```

sd
ir sthA_fabR-
... p10
sd-(15)-ir 4158894 Gap 6.0 bits
sd-ir 4158894 sthA_fabR- total 5.3 bits
p35   3.2 bits
p35-(22)-p10 4158856 Gap 2.3 bits
p35-p10 4158856 total 5.8 bits

```
         *      *4158850  *        *4158840  *        *4158830  *        *4158820  *        *4158810  *        *4158800  *
5' t t c t g t t g c t t t t a t g t a t a a g a a c a g g t a a g c c c t a c c a t g c c a c a t t c c t a c g a t t a 3'
   - phe - cys - cys - phe - tyr - val -   -   -   -   -   -   -   - fMet - pro - his - ser - tyr - asp -
                 - fMet - tyr - lys - asn - arg -   -   -   -   -   -   -   -
```
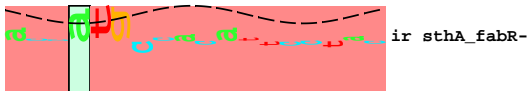
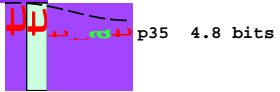- -fMet - leu - leu - cys - ile - arg - thr - gly - lys - pro - tyr - his - ala - thr - phe - leu - arg - leu -
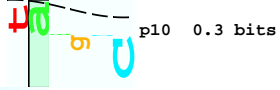
... p10 4.9 bits   [###> orf 21 codons   [------------------------------------- ... NC_000913.sthA

sd

ir sthA_fabR-

p35 5.3 bits   {-------------------------} sd-(12)-ir 4158813 Gap 4.0 bits

p35 4.8 bits |-----------------------| sd-ir 4158813 sthA_fabR- total 9.2 bits

p10 0.3 bits

{---} p35-(23)-p10 4158823 Gap 1.4 bits
|---| p35-p10 4158823 total 4.2 bits

p10 4.9 bits
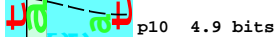
{---} p35-(26)-p10 4158816 Gap 3.7 bits
|---| p35-p10 4158816 total 6.0 bits