- 1 -

piece 1, NC_000913, fecI_IS1F-, config: linear, direction: -, begin: 4516524, end: 4516239

```
         *4516520  *      *4516510  *      *4516500  *      *4516490  *      *4516480  *      *4516470  *      *4516460  *      *4516450  *
5' a c a c t a a a t c a g t g a a g t t g g c a g c a t t a c c g a a a t c c c c a t c c t t t a g g g c a g t g a g g a t g t c a a t a a t a g c a g a c c a c a t 3'
    - thr - leu - asn - gln -                           -fMet - ala - ala - leu - pro - lys - ser - pro - ser - phe - arg - ala - val - arg - met - ser - ile - ile - ala - asp - his - ile -
    - his -         -           - thr - lys - ser - val - ser - trp - gln - his - tyr - arg - asn - pro - his - pro - leu - gly - gln -
```
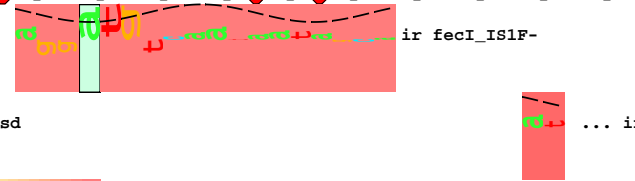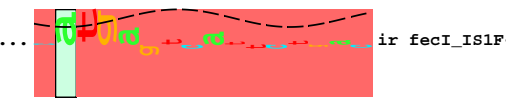
sd-(9)-ir 4516466 Gap 2.3 bits
sd-ir 4516466 fecI_IS1F- total 7.7 bits

... sd-(9)-ir 4516442 Gap
... sd-ir 4516442 fecI_IS1F-

```
         *4516440  *      *4516430  *      *4516420  *      *4516410  *      *4516400  *      *4516390  *      *4516380  *      *4516370  *
5' c a t g a g t c a t t c t g a c c g a c a c a t g c c a g a a g c a g a g g c t c c a t c c c a t t t t a t a c c t a c c t t a t a a c a c t t a g a a a a a c a 3'
          - met - ser - his - ser - asp - arg - his - met - pro - glu - ala - glu - ala - pro - ser - his - phe - ile - pro - thr - leu -
```

[###]> orf 30 codons

... ir

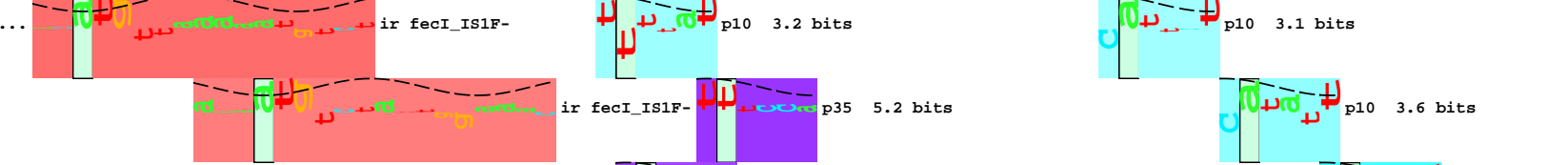ir fecI_IS1F-   sd

sd-(10)-ir 4516360 Gap
sd-ir 4516360 fecI_IS1F-
... sd

... sd-(9)-ir 4516442 Gap 2.3 bits
... sd-ir 4516442 fecI_IS1F- total 6.7 bits

```
         *4516360  *      *4516350  *      *4516340  *      *4516330  *      *4516320  *      *4516310  *      *4516300  *      *4516290  *
5' a c a t g t t a a a a a t g t c t a t t g g a a a c a a t t t t a t t c c a a t t g t a a t g a t a a c c a t t c t c a t a t t a a t a t g a c t a c g t g a t 3'
    - - - - - - - - -fMet - glu - thr - ile - leu - phe - pro - ile - val - met - ile - thr - ile - leu - ile - leu - ile - - -fMet - ile -
    -fMet - leu - lys - met - ser - ile - gly - asn - asn - phe - ile - ser - asn - cys - asn - asp - asn - his - ser - his - ile - asn - met - thr - thr - - -
```

[###]> orf 26 codons

ir fecI_IS1F-   p10 3.2 bits   p10 3.1 bits

ir fecI_IS1F-   p35 5.2 bits   p10 3.6 bits

... sd-(10)-ir 4516360 Gap 2.7 bits   p35 4.8 bits   p10 6.3 bits

... sd-ir 4516360 fecI_IS1F- total 6.9 bits   p35-(24)-p10 4516308 Gap 2.4 bits
... sd   p35-p10 4516308 total 5.5 bits

sd-(7)-ir 4516351 Gap 3.7 bits   p35-(26)-p10 4516302 Gap 3.7 bits
sd-ir 4516351 fecI_IS1F- total 6.1 bits   p35-p10 4516302 total 5.1 bits
p35 2.7 bits   p35 5.5 bits

p35-(23)-p10 4516333 Gap 1.4 bits
p35-p10 4516333 total 4.4 bits

p35-(24)-p10 4516297 Gap 2.4 bits
p35-p10 4516297 total 9.4 bits

```
        *4516280   *        *4516270  *        *4516260   *        *4516250  *        *4516240
5'  a a t t a a c t t t t g a t g c a c t c c g c a t g t c t g a c c g c g c c a c t a c  3'
      -      -       -         -fMet - met - his - ser - ala - cys - leu - thr - ala - pro - leu -
      - ile - asn - phe -         -     -     -     -     -     -     -     -     -
      -      -      -      -      -      -         -fMet - ser - asp - arg - ala - thr -
                                                  [------------------------------------ ... NC_000913.fecI
```