- 1 -

piece 1, NC_000913, sixA_fadJ-, config: linear, direction: -, begin: 2455066, end: 2454815
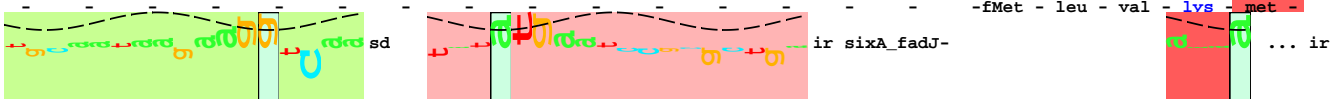
```
       *        *2455060  *        *2455050  *        *2455040  *        *2455030  *        *2455020  *        *2455010  *        *2455000  *        *2454990
5' t g g a a a a c a a c t g c a a c t g a c c t g c a a t a a g a a g g t c a a a g c t a t a t g a a t c c g c g c t g a a t g g c g g a g t g t t g g t c a a a a 3'
  - trp - lys - thr - thr - ala - thr - asp - leu - gln -    ●    -   -   -   -   -   -   - fMet - asn - pro - arg - ●  - fMet - ala - glu - cys - trp - ser - lys -   -
     - gly - lys - gln - leu - gln - leu - thr - cys - asn - lys - lys - val - lys - ala - ile -   -   -   -   -   -   -   -   -   -   -   -   -
       - glu - asn - asn - cys - asn -   ●   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - leu - val - lys - met -
```
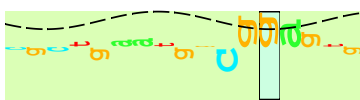
sd ... ir

ir sixA_fadJ-

[###]> orf 5 codons {--------------------} sd-(14)-ir 2454986 Gap 4.9 bits

{--------------------} sd-(11)-ir 2455021 Gap 3.0 bits |--------------------| sd-ir 2454986 sixA_fadJ- total

|--------------------| sd-ir 2455021 sixA_fadJ- total 6.6 bits   p35 3.4 bits

sd {----------------------} ... p35-(26)-p10 2454967 Gap

|-------------- ... p35-p10 2454967 total 7.0

```
       *        *2454980  *        *2454970  *        *2454960  *        *2454950  *        *2454940  *        *2454930  *        *2454920  *        *2454910  *
5' t g t a a a c g c a t a t t g a c t a t a c t t a c g c c a t t g a g g t a a a a a c a g c g t t t c a t t c g g t g a a t g g a t a a g g c a c a a t g c c g 3'
  - cys - lys - arg - ile - leu - thr - ile - leu - thr - pro - leu - arg -   ●   -   -   -   -   -   -   -   - fMet - asn - gly -   -   - fMet - pro -
                              ●                                        ●                                                           ●  -fMet - asp - lys - ala - gln - cys - arg -
```

... ir sixA_fadJ-   sd ... ir

[###]> orf 2 codons   p10 7.3 bits   p35 5.3 bits   {----------------------} sd-(11)-ir 2454910 Gap 3.0 bits

|--------------------| sd-ir 2454910 sixA_fadJ- total 8.0 bits   p10 4.1 bits

... {------------------------------} p35-(26)-p10 2454967 Gap 3.7 bits   {--------------------------------} p35-(23)-p10 2454913 Gap 1.4 bits
... -------------------------------| p35-p10 2454967 total 7.0 bits |-------------------------------| p35-p10 2454913 total 7.9 bits
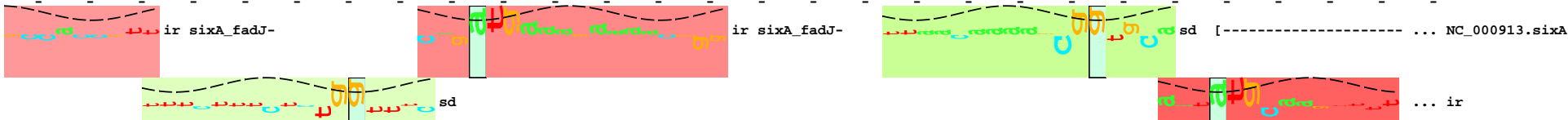
```
       *        *2454900  *        *2454890  *        *2454880  *        *2454870  *        *2454860  *        *2454850  *        *2454840  *        *2454830  *
5' g c c a c c g t t t t c t t t c t c t g g t t t c a g a t g a a a g a a a a c g g c g a a t c t g t t a a c a a a g c g g t g c a a t a t g c a a g t t t t 3'
  - ala - thr - val - phe - phe - leu - trp - phe - gln - met -   ●   - lys - glu - asn - gly - arg - ile - trp - leu -   ●   - thr - lys - ala - val - gln - tyr - ala - ser - phe -
     - pro - pro - phe - ser - phe - ser - gly - phe - arg -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   - fMet - gln - val - phe -
```

... ir sixA_fadJ-   ir sixA_fadJ-   sd [---------------------- ... NC_000913.sixA

sd ... ir

{------------------} sd-(7)-ir 2454877 Gap 3.7 bits   {--------------} sd-(7)-ir 2454834 Gap 3.7 bits
|--------------| sd-ir 2454877 sixA_fadJ- total 6.2 bits |--------------| sd-ir 2454834 sixA_fadJ- total 10.4 bits

```
       *        *2454820  *
5' t a t c a t g c g 3'
  - tyr - his - ala -
       - ile - met -   -fMet
```

... ----------------- ... NC_000913.sixA

... ir sixA_fadJ-