piece 1, NC_000913, yjhR_REPt344+, config: linear, direction: +, begin: 4534025, end: 4534447

```
        *      *4534030   *      *4534040   *      *4534050   *      *4534060   *      *4534070   *      *4534080   *      *4534090   *      *4534100   *
5' t a t g g t a g t c t g g a t c a a c g t c a g c t t t a a a t g t g a t g a g c c g t t c a t g a t a c a g g a g t a g t a a a g g c a t a t t t t a c c a a 3'
```

```
   -     -     -     -   leu - asp - gln - arg - gln - leu -  -fMet -  -   -   -   -     -     -     -   met - ile - gln - glu -  -     -     -     -     -     -
   - tyr - gly - ser - leu - asp - gln - arg - gln - leu -  -fMet -  -   -   -   -     -     -     -   met - ile - gln - glu -  -     -     -     -     -fMet -
   - met - val - val - trp - ile - asn - val - ser - phe - lys - cys - asp - glu - pro - phe - met - ile - gln - glu -  -
   - trp -  -   -   - val - trp -  -   -   -   -   -   -   -   -   - -fMet - met - ser - arg - ser -
```

ir yjhR_REPt344+   p10   5.2 bits

[###> orf 5 codons

sd

{- - - - - - - - - - -} sd-(9)-ir 4534071 Gap 2.3 bits
|- - - - - - - - - - -| sd-ir 4534071 yjhR_REPt344+ total 7.2 bits

p35   2.5 bits

{- -} p35-(24)-p10 4534096 Gap 2.4 bits
|- -| p35-p10 4534096 total 5.3 bits

```
        *      *4534110   *      *4534120   *      *4534130   *      *4534140   *      *4534150   *      *4534160   *      *4534170   *      *4534180   *
5' t g t t a a g g c g a c t t t c c g t t t t a t t g c g a g t c g c c t t t c c t g a t t a t a a a t c t t a t t g t t t a c c t a a t c a t t t t c c t t t g c 3'
```

```
   -     -     -     -     -     -     -     -     -     -     -     -     -     -     -   -fMet - phe - thr -  -     -     -     -     -     -
   - leu - arg - arg - leu - ser - val - leu - leu - arg - val - ala - phe - pro - asp - tyr - lys - ser - tyr - cys - leu - pro - asn - his - phe - pro - leu - his -
```

p35   4.3 bits   p10   1.3 bits   p35   4.1 bits   ... p10

{- - - - - - - - - - - - - - - - - - - -} p35-(23)-p10 4534142 Gap 1.4 bits   ... p35-(22)-p10 4534187 Gap
|- - - - - - - - - - - - - - - - - - - -| p35-p10 4534142 total 4.2 bits   ... p35-p10 4534187 total 7.3

p35   4.8 bits   p10   3.0 bits

{- - - - - - - - - - - - - - - - - - -} p35-(23)-p10 4534148 Gap 1.4 bits
|- - - - - - - - - - - - - - - - - - -| p35-p10 4534148 total 6.4 bits

p35   4.2 bits   p10   1.4 bits

{- - - - - - - - - - - - - - - - - - -} p35-(23)-p10 4534153 Gap 1.4 bits
|- - - - - - - - - - - - - - - - - - -| p35-p10 4534153 total 4.2 bits

```
        *      *4534190   *      *4534200   *      *4534210   *      *4534220   *      *4534230   *      *4534240   *      *4534250   *      *4534260   *
5' a t a a t g c g c c t g g g a t t a a t g g c g g g t g c t t t a g g a a t g a a a g a a a a a t g c a a g c a a t a a t a a t g g c c t a a t t c t 3'
```

```
   -     -   -fMet - arg - leu - gly - leu - met - ala - gly - ala - phe - arg - asn - glu - arg - lys - cys - lys - gln -  -     -     -     -     -     -
   -     - asn - ala - pro - gly - ile - asn - gly - gly - cys - phe -  -   - met - lys - glu - asn - ala - ser - asn - asn - ile - ile - met - ala -  -
   -                                                       -fMet - glu - ala - ile - ile -
```

... p10   5.5 bits   sd   ir yjhR_REPt344+   [###> orf 6 codons   [###> orf 13 codons

...} p35-(22)-p10 4534187 Gap 2.3 bits   {- - - - - - - - - - - - - -} sd-(12)-ir 4534224 Gap 4.0 bits   p10   4.6 bits   ... p35

... | p35-p10 4534187 total 7.3 bits |- - - - - - - - - - - - - -| sd-ir 4534224 yjhR_REPt344+ total 8.1 bits   p10   8.4 bits   {- - - - ... p35-(22)-p10 4534286 Gap

p35   3.8 bits   ir yjhR_REPt344+ |- - - - ... p35-p10 4534286 total 8.5

sd   p10   6.3 bits

{―――――――} sd-(8)-ir 4534234 Gap 2.4 bits   p10 4.6 bits

|―――――――――――――| sd-ir 4534234 yjhR_REPt344+ total 9.9 bits

{―――――――――――――――――――――} p35-(26)-p10 4534243 Gap 3.7 bits

|―――――――――――――――――――――| p35-p10 4534243 total 4.7 bits

p35 1.3 bits

{―――――――――――――――――――} p35-(24)-p10 4534245 Gap 2.4 bits

|―――――――――――――――――――| p35-p10 4534245 total 5.2 bits

p35 3.3 bits

{―――――――――――――――――――――} p35-(23)-p10 4534248 Gap 1.4 bits

|―――――――――――――――――――――| p35-p10 4534248 total 10.3 bits

{―――――――――――――――――――――} p35-(26)-p10 4534251 Gap 3.7 bits

|―――――――――――――――――――――| p35-p10 4534251 total 4.2 bits

```
   *4534270  *        *4534280  *        *4534290  *        *4534300  *        *4534310  *        *4534320  *        *4534330  *        *4534340  *
5' ttgaacatcattaagcatatcatcatcatcgtctattgccagaatccgtcgacttataatcgccagaacggcatatcaggacg 3'
  -fMet - asn - ile - ile - lys - his - ile - ile - ile - val - tyr - leu - pro - glu - ser - val - asp - leu -   -     -     -     -     -     -     -     -     -     -
                                                                                                                -     -     -     -     -     -     -     -     -     -
```

p35 5.0 bits   p10 6.3 bits

... p35 4.5 bits

p10 1.0 bits
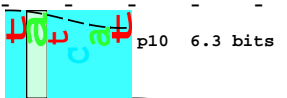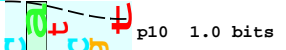
...} p35-(22)-p10 4534286 Gap 2.3 bits

...| p35-p10 4534286 total 8.5 bits

{―――――――――――――――――――} p35-(23)-p10 4534292 Gap 1.4 bits

|―――――――――――――――――――| p35-p10 4534292 total 4.5 bits

```
   *4534350  *        *4534360  *        *4534370  *        *4534380  *        *4534390  *        *4534400  *        *4534410  *        *4534420  *
5' gtgctgcgaacgctgtggcccaaaacgttccagtaaactgtgtagatgttcgtagatttccgagccataatcgaaaaggcg 3'
  -fMet - leu - arg - thr - leu - trp - pro - lys - thr - phe - gln -   -   -fMet -   - -fMet - phe - val - asp - phe - arg - ala - ile - ile - glu - lys - ala -
       -     -     -     -     -     -     -     -     -fMet - ala - gln - asn - val - pro - val - asn - cys - val - asp - val - arg - arg - phe - pro - ser - his - asn - arg - lys - gly - ala -
```

p35 0.6 bits

... sd

p10 5.5 bits {───── ... sd-(6)-ir 4534433 Gap

|───── ... sd-ir 4534433 yjhR_REPt34

{―――――――――――――――――――} p35-(23)-p10 4534415 Gap 1.4 bits

|―――――――――――――――――――| p35-p10 4534415 total 4.6 bits

```
   *4534430  *        *4534440  *
5' cggatgtctattaaggca 3'
 - arg - met - ser - ile - lys - ala -
    -   asp - val - tyr -   -     -
```

... sd

...} sd-(6)-ir 4534433 Gap 4.3 bits
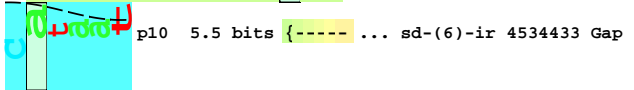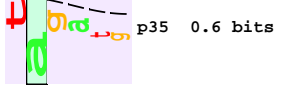
...| sd-ir 4534433 yjhR_REPt344+ total 5.5 bits

ir yjhR_REPt344+