piece 1, NC_000913, yhfA_crp+, config: linear, direction: +, begin: 3483811, end: 3484161

```
         *      *3483820  *      *3483830  *      *3483840  *      *3483850  *      *3483860  *      *3483870  *      *3483880  *      *3483890
5' ccccttcgaccccacttcactcgcgcttgcattttgctactccactgcgtcaatttcctgacagagtacgcgtactaacca 3'
   -  pro - phe - asp - pro - leu - his - ser - arg - leu - his - phe - cys - tyr - ser - thr - ala - ser - ile - phe - ala - thr - pro - leu - arg - gln - phe - ser - ●   -
   -  pro - ser - thr - his - phe - thr - arg - ala - cys - ile - phe - ala - thr - pro - leu - arg - gln - phe - ser - ●   -   -   -   -   -
   ... leu - arg - pro - thr - ser - leu - ala - leu - ala - leu - leu - his - cys - val - asn - phe - pro - asp - arg - val - arg - val - leu - thr - lys -
   ---------------------------------------------] NC_000913.yhfA
```
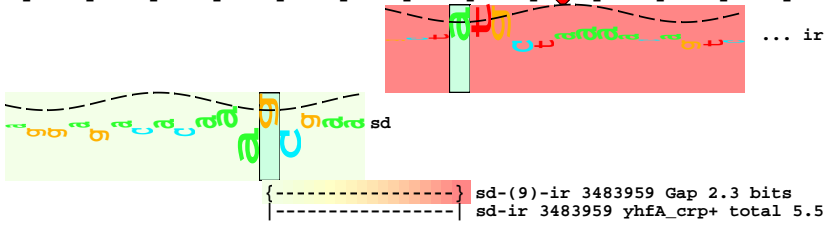
```
         *      *3483900  *      *3483910  *      *3483920  *      *3483930  *      *3483940  *      *3483950  *      *3483960  *      *3483970
5' aatcgcgcaacggaaggcgactgggtcatgctgaagcgagacaccaggagacacaaagcgaaagctatgctaaacagtc 3'
   -   -   -   -   -   -   -   -   -   -   -fMet - leu - lys - arg - asp - thr - arg - arg - his - lys - ala - lys - ala - met - leu - lys - gln - ser -
   -   ser - arg - asn - gly - arg - arg - pro - gly - ser - cys - ●   -   -   -   -   -   -   -   -   -   -   -
                                                                                                                                        ... ir
```


... sd

{---------------} sd-(9)-ir 3483959 Gap 2.3 bits
|---------------| sd-ir 3483959 yhfA_crp+ total 5.5 bits

```
         *      *3483980  *      *3483990  *      *3484000  *      *3484010  *      *3484020  *      *3484030  *      *3484040  *      *3484050
5' aggatgctacagtaatacattgatgtactgcatgtatgcaaggacgtcacattaccgtgtacagttgatagcccctt 3'
   -   -fMet - leu - gln - ●   - tyr - ser - asn - thr - leu - met - tyr - cys - met - tyr - ala - lys - asp - val - thr - leu - pro - cys - ser - thr - val - asp - ser - pro - phe -
                                                        -fMet - gln - arg - thr - ser - his - tyr - arg - ala - val - gln - leu - ile - ala - pro - ser -
... ir yhfA_crp+
```
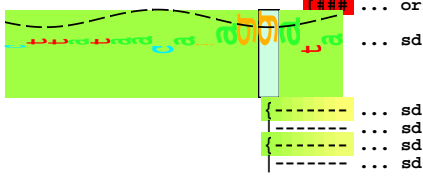
```
         *      *3484060  *      *3484070  *      *3484080  *      *3484090  *      *3484100  *      *3484110  *      *3484120  *      *3484130
5' cccaggtagcggaagcatatttcggcaatccagagacggcgttatctggctctggagaaagcttataacagaggata 3'
   -  pro - gly - ser - gly - lys - his - ile - ser - ala - ile - gln - arg - gln - arg - arg - tyr - leu - ala - leu - glu - lys - ala - tyr - asn - arg - gly -
   -  gln - val - ala - gly - ser - ile - phe - arg - gln - ser - arg - asp - ser - gly - val - ile - trp - leu - trp - arg - lys - leu - thr - glu - asp - asn -
                                                                                                                                        ... orf
```


... sd

{-------} ... sd-(11)-ir 3484142 Gap
|-------| ... sd-ir 3484142 yhfA_crp+ t
{-------} ... sd-(14)-ir 3484145 Gap
|-------| ... sd-ir 3484145 yhfA_crp+ t

```
         *      *3484140  *      *3484150  *      *3484160
5' accgcatggtgcttggcaaaccgca 3'
   -   -   -   -fMet - val - leu - gly - lys - pro -
   -  arg - ala - trp - cys - leu - ala - asn - arg -
```

... ▶ orf 59 codons

... sd   [-------------------------------------- ... NC_000913.crp

... {-------------} sd-(11)-ir 3484142 Gap 3.0 bits
... |-------------| sd-ir 3484142 yhfA_crp+ total 8.9 bits
... {-------------} sd-(14)-ir 3484145 Gap 4.9 bits
... |-------------| sd-ir 3484145 yhfA_crp+ total 5.4 bits

ir yhfA_crp+

ir yhfA_crp+