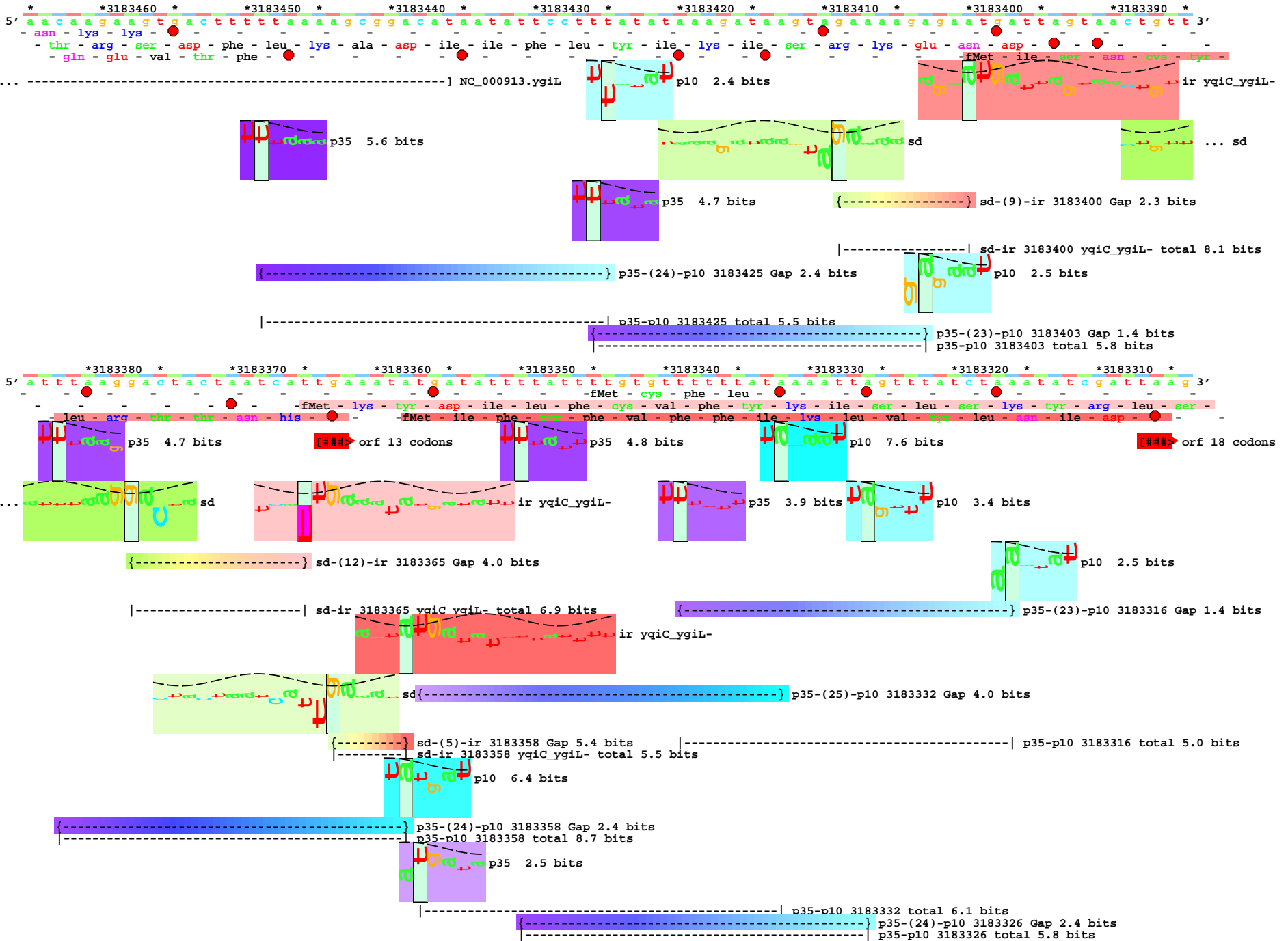piece 1, NC_000913, yqiC_ygiL-, config: linear, direction: -, begin: 3183465, end: 3183133

```
         *        *3183460  *        *3183450  *        *3183440  *        *3183430  *        *3183420  *        *3183410  *        *3183400  *        *3183390  *
5' a a c a a g a a g t g a c t t t t a a a a g c g g a c a t a a t a t t c c t t t a t a t a a a g a t a a g t a g a a a a g a g a a t g a t t a g t a a c t g t t 3'
     -  asn - lys - lys -  -    -    -    -   thr - arg - ser - asp - phe - leu - lys - ala - asp - ile - ile - phe - leu - tyr - ile - lys - ile - ser - arg - lys - glu - asn - asp -  -    -    -    -    -    -    -
       -  gln - glu - val - thr - phe -  -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -   fMet - ile - ser - asn - cys - tyr -
```

... --] NC_000913.ygiL

ir yqiC_ygiL-

p10 2.4 bits

p35 5.6 bits

sd

... sd

p35 4.7 bits

{------------------} sd-(9)-ir 3183400 Gap 2.3 bits

|------------------| sd-ir 3183400 yqiC_ygiL- total 8.1 bits

{---} p35-(24)-p10 3183425 Gap 2.4 bits

p10 2.5 bits

|---| p35-p10 3183425 total 5.5 bits

{--------------------------------------} p35-(23)-p10 3183403 Gap 1.4 bits

|--------------------------------------| p35-p10 3183403 total 5.8 bits

```
         *3183380  *        *3183370  *        *3183360  *        *3183350  *        *3183340  *        *3183330  *        *3183320  *        *3183310  *
5' a t t t a a g g a c t a c t a a t c a t t g a a a t a t g a t a t t t t a t t t t g t g t t t t t a t a a a t t a g t t t a t c t a a a t a t c g a t t a a g 3'
                                                                    -fMet - cys - phe - leu -    -    -    -    -    -    -    -    -    -    -    -    -    -
     -    -    -    -    -    -    -   fMet - lys - tyr - asp - ile - leu - phe - cys - val - phe - tyr - lys - ile - ser - leu - ser - lys - tyr - arg - leu - ser -
   leu - arg - thr - thr - asn - his -    -   fMet - ile - phe - tyr - phe - val - phe - phe - ile - lys - leu - val - tyr - leu - asn - ile - asp -    -    -
```

p35 4.7 bits

[###> orf 13 codons

p35 4.8 bits

p10 7.6 bits

[###> orf 18 codons

... sd

ir yqiC_ygiL-

p35 3.9 bits

p10 3.4 bits

{----------------} sd-(12)-ir 3183365 Gap 4.0 bits

p10 2.5 bits

|---------------------| sd-ir 3183365 yqiC_ygiL- total 6.9 bits

{------------------------------} p35-(23)-p10 3183316 Gap 1.4 bits

ir yqiC_ygiL-

sd{-------------------------------------} p35-(25)-p10 3183332 Gap 4.0 bits

{--------} sd-(5)-ir 3183358 Gap 5.4 bits

|--| p35-p10 3183316 total 5.0 bits

|---------| sd-ir 3183358 yqiC_ygiL- total 5.5 bits

p10 6.4 bits

{--------------------------------} p35-(24)-p10 3183358 Gap 2.4 bits

|--------------------------------| p35-p10 3183358 total 8.7 bits

p35 2.5 bits

|--------------------------------------| p35-p10 3183332 total 6.1 bits

{------------------------------} p35-(24)-p10 3183326 Gap 2.4 bits

|---------------------------------------| p35-p10 3183326 total 5.8 bits

```
        *3183300   *      *3183290   *      *3183280   *      *3183270   *      *3183260   *      *3183250   *      *3183240   *      *3183230   *
5' taaaacttaaaaaaatacattgcaattatactttcaattgtactcattcatttttgtgatggtttttctgaatgggattacgc 3'
      -           -          - -fMet - gln - leu - tyr - phe - gln - leu - tyr - ser - phe - ile - phe - val - met - val - phe -   -fMet - gly - leu - arg -
      - lys - thr -                                                                              -fMet
        [###> orf 24 codons
                                                                                                              p35   4.8 bits

                                                                                                              ... p35-(22)-p10 3183219 Gap
                                                                                                              ... p35-p10 3183219 total 5.6

        *3183220   *      *3183210   *      *3183200   *      *3183190   *      *3183180   *      *3183170   *      *3183160   *      *3183150   *
5' gataaggtaatagaaagcactataaattagaggattaattcataatttacagtgcattaaagacgaatgtttacagcgttg 3'
   - asp - lys - val - ile - glu - ser - thr - ile - asn -                      -fMet - his -              -fMet - phe - thr - ala - leu -
        p10   3.2 bits

                                                                                         <--------------------- ... NC_000913.yqiC
... ------} p35-(22)-p10 3183219 Gap 2.3 bits
... ------| p35-p10 3183219 total 5.6 bits

        *3183140   *
5' gggggagag 3'
   - gly - gly - glu -
        -     -     -
... ------------------ ... NC_000913.yqiC
```