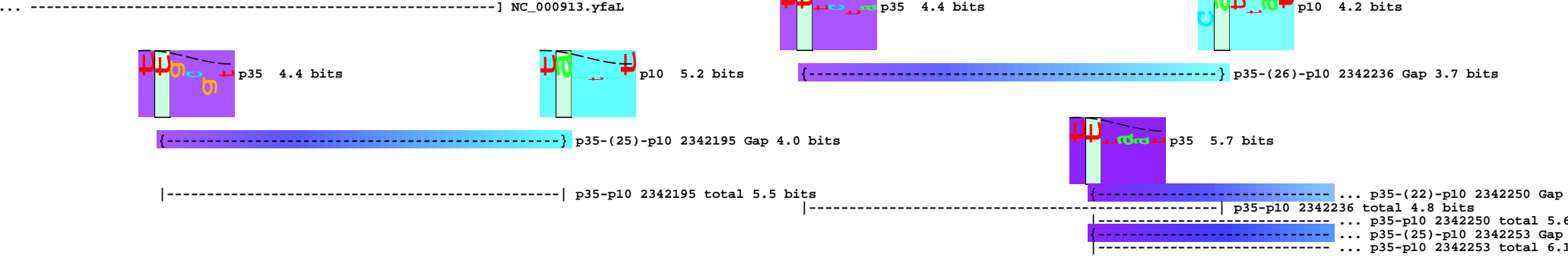
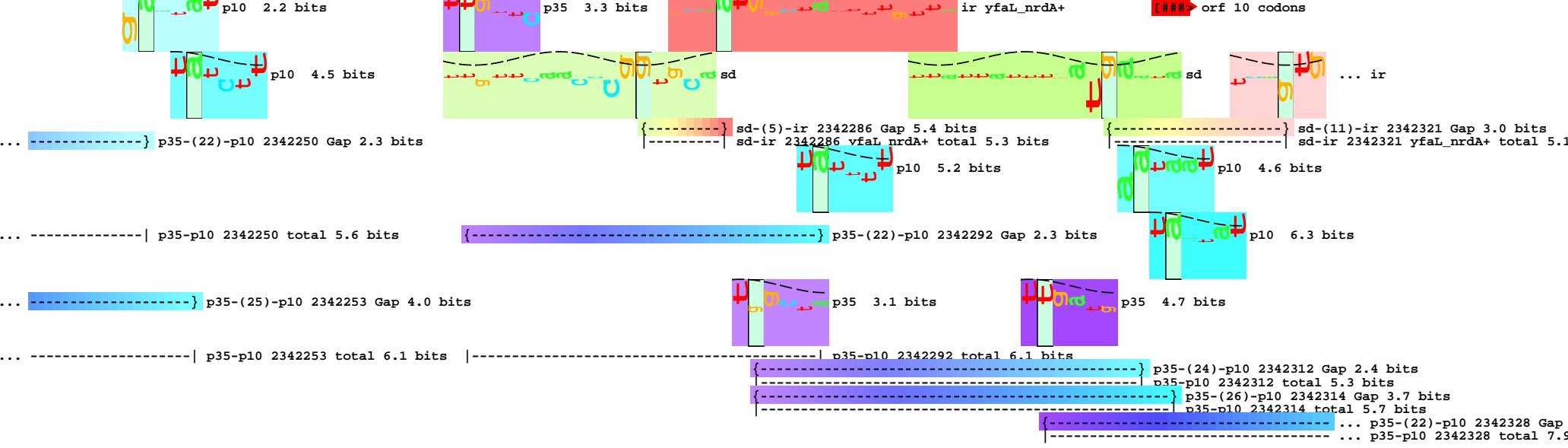


- 1 -
piece 1, NC_000913, yfaL_nrdA+, config: linear, direction: +, begin: 2342162, end: 2342906

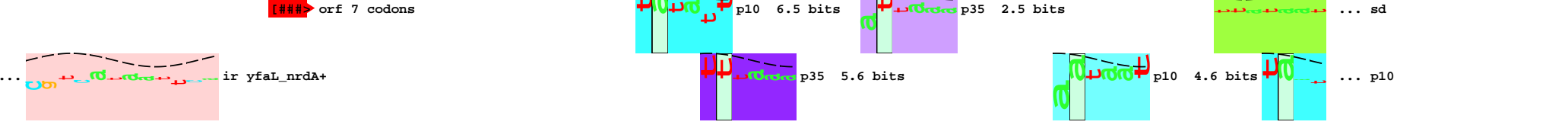
5' *a t a c t c c t t g c g t a g a a a g a t a a t c c g c a t a t t t a a t c t a a c c a t c a t t t t t c t a t a a g a c g g c g t a t t t a a t c g c a t t a t a c* 3'
- ile - leu - leu - ala -
- tyr - ser - leu - arg - arg - lys - ile - ile - arg - ile - leu - ile -
- thr - pro - cys - val - glu - arg -

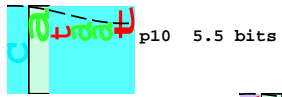


5' *g a t a t g g a a t a t c t t t c t t t t g t a a a t t g t t c a a c c g g t g c a a t g g c t a t t t t g t t a t t a t t t g a t g a a t a a t a t c a g t g* 3'
- fMet - glu - tyr - leu - ser - phe - val - asn - cys - ser - thr - arg - cys - asn - gly - tyr - phe - val - ile - ile -
- fMet - - fMet - ala - ile - leu - leu - leu - phe - asp - glu -
- fMet - phe - asn - pro - val - gln - trp - leu - phe - cys - tyr - tyr - leu - met - asn - asn - ile - ser - ala -

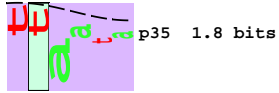


5' *c g t c a t a a t t c a a g t t a a t a a c c t t c a g g g a t a t c a g t t a t a t t t a a a c t a a a t t a a a g t c a t g a a t a a t t t t c t t a t a a t* 3'
- arg - his - asn - ser - ser -
- ser -
- fMet - asn - asn - phe - leu - ile - ile -



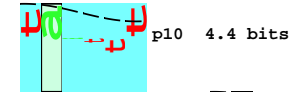


{-----} p35-(22)-p10 2342389 Gap 2.3 bits

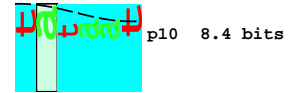


|-----| p35-p10 2342389 total 7.8 bits

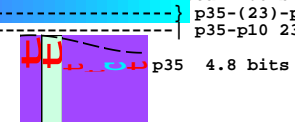
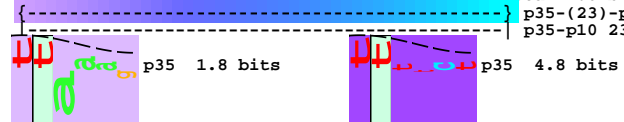
{-----} p35-(24)-p10 2342363 Gap 2.4 bits



|-----| p35-p10 2342363 total 5.9 bits



{-----} p35-(24)-p10 2342391 Gap 2.4 bits
 {-----} p35-p10 2342391 total 7.6 bits

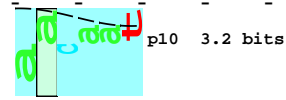
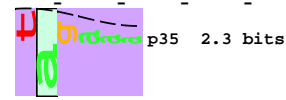
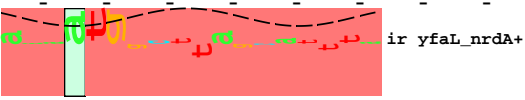
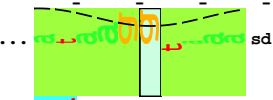


{-----} p35-(24)-p10 2342402 Gap 2.4 bits
 {-----} p35-p10 2342402 total 5.7 bits

{-----} p35-(23)-p10 2342400 Gap 1.4 bits
 {-----} p35-p10 2342400 total 9.4 bits
 {-----} p35-(26)-p10 2342412 Gap
 {-----} p35-p10 2342412 total 5.5
 {-----} p35-(26)-p10 2342420 Gap
 {-----} p35-p10 2342420 total 5.8

... {-----} p35-(22)-p10 2342328 Gap 2.3 bits
 ... {-----} p35-p10 2342328 total 7.9 bits

*2342410 *2342420 *2342430 *2342440 *2342450 *2342460 *2342470 *2342480 *
 5' a t a a g g t a a a t t a a c a a a a t g g c t t a g c a t t t a a c a a t a a c c g a a t a g a a a c a a c c a t t t c g c c a t c a a c a a t c t c t t a c 3'

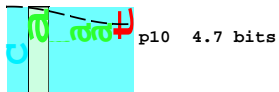
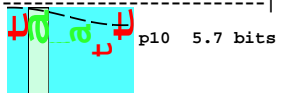


###> orf 3 codons

{-----} p35-(23)-p10 2342474 Gap 1.4 bits

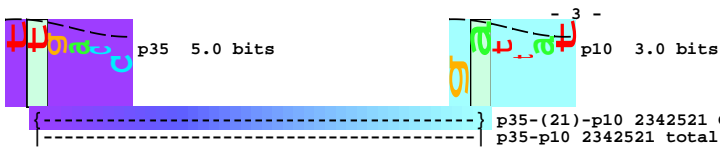
{-----} sd-(13)-ir 2342423 Gap 4.6 bits
 {-----} sd-ir 2342423 yfaL_nrdA+ total 12.6 bits

|-----| p35-p10 2342474 total 4.0 bits



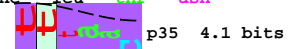
... {-----} p35-(26)-p10 2342412 Gap 3.7 bits
 ... {-----} p35-p10 2342412 total 5.5 bits
 ... {-----} p35-(26)-p10 2342420 Gap 3.7 bits
 ... {-----} p35-p10 2342420 total 5.8 bits

*2342490 *2342500 *2342510 *2342520 *2342530 *2342540 *2342550 *2342560 *
 5' a t t c g c t t a t a t a t t g a c c a c a a c t g a t a c a t c a g a t t a t g t g a t g a c t c g t g c t t a g a t c a a t t t t t g c a a t c a t t a g c a 3'
 -fMet - thr - thr - thr - asp - thr - ser - asp - tyr - val - met - thr - arg - ala - -fMet - gln - ser - leu - ala -
 -fMet - -fMet - -fMet - leu - arg - ser - ile - phe - ala - ile - ile - ser - lys -



*2342570 * *2342580 * *2342590 * *2342600 * *2342610 * *2342620 * *2342630 * *2342640 *

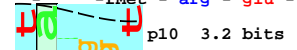
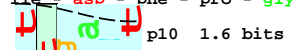
5' a a a a g a t t a a t a a g c c a t c t a t a t a g t t c a a t t c t a a c c t a t t a t g c c g t t c a a g a a a t c g c c g a a c a g t t a t t t t t a a c a a 3'
 - lys - arg - leu - ile - ser - his - leu - tyr - gln - phe - ile - fMet - pro - phe - lys - lys - ser - pro - asn - ser - tyr - phe - - -
 - lys - ile - asn - lys - pro - ser - ile - ser - ile - tyr - leu - thr - tyr - tyr - ala - val - gln - glu - ile - ala - glu - gln - leu - phe - leu - thr - asn -



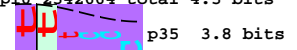
... p35-(23)-p10 2342664 Gap
 ... p35-p10 2342664 total 4.3

*2342650 * *2342660 * *2342670 * *2342680 * *2342690 * *2342700 * *2342710 * *2342720 *

5' a t t t t t c t c t c c c a t t g a c t t t c c c g g a c c t t g t c t g a c c t a a g g t g c g c g a a a g c c a c t t t t t c c t t c c t g a g t t a t 3'
 - - - - - fMet - thr - phe - pro - asp - thr - leu - ser - asp - leu - arg - cys - ala - lys - ala - thr - phe - ser - phe - leu - ser - tyr -
 - phe - ser - leu - pro - ile - asp - phe - pro - gly - his - leu - val - - - fMet - arg - glu - ser - his - phe - phe - leu - pro - glu - leu - ser -



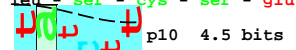
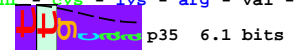
... p35-(23)-p10 2342664 Gap 1.4 bits
 ... p35-p10 2342664 total 4.3 bits



p35-(23)-p10 2342692 Gap 1.4 bits
 p35-p10 2342692 total 5.5 bits

*2342730 * *2342740 * *2342750 * *2342760 * *2342770 * *2342780 * *2342790 * *2342800 *

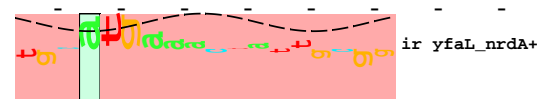
5' c c a c a a a g t t a t g c a c t t g c a a g a g g g t c a t t t t c a c a c t a t c t t g c a g t g a a t c c c a a a c a t a c c c c c t a t a t a t a g t g t 3'
 - pro - gln - ser - tyr - ala - leu - ala - arg - gly - ser - phe - ser - his - tyr - leu - ala - val - asn - pro - lys - his - thr - pro - tyr - ile - - -
 - thr - lys - leu - cys - thr - cys - lys - arg - val - ile - phe - thr - leu - ser - cys - ser - glu - ser - gln - thr - tyr - pro - leu - tyr - ile - val - phe -



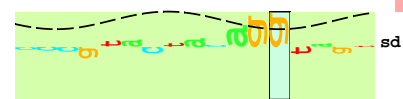
p35-(23)-p10 2342769 Gap 1.4 bits
 p35-p10 2342769 total 9.1 bits

*2342810 * *2342820 * *2342830 * *2342840 * *2342850 * *2342860 * *2342870 * *2342880 * *2342890 *

5' t c t a a g c a g c t t c c c g t a c t a c a g g t a g t c t g c a t g a a a c t a t t g c g g a a a g a a t t c c a a a a a c a g g t a c g a c a t a c a t g a 3'
 - - - - - fMet - lys - leu - leu - arg - lys - glu - phe - gln - lys - gln - val - arg - his - thr - - - fMet - - -



[----- ... NC_000913.nrdA



[###> orf 16 codons

sd-(9)-ir 2342843 Gap 2.3 bits

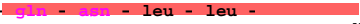
... ir

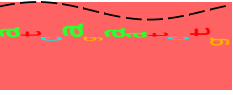
sd-ir 2342843 yfaL_nrdA+ total 6.7 bits

sd-(11)-ir 2342887 Gap 3.0 bits
 sd-ir 2342887 yfaL_nrdA+ total 11.5

* *2342900 *

5' a t c a g a a t c t g c t g g t 3'

...  - leu - leu -
... ----- ... NC_000913.nrdA

...  ir yfaL_nrdA+