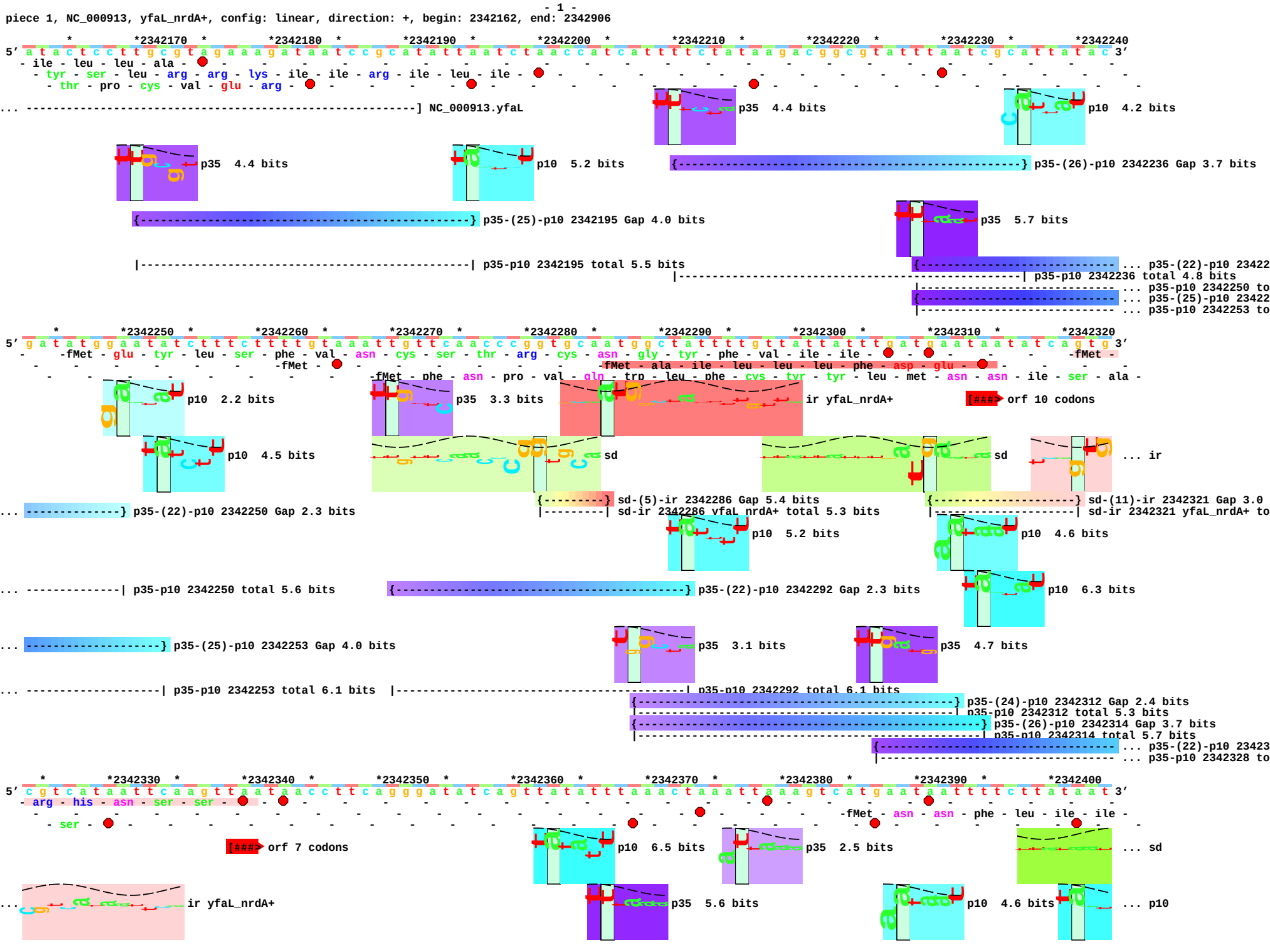
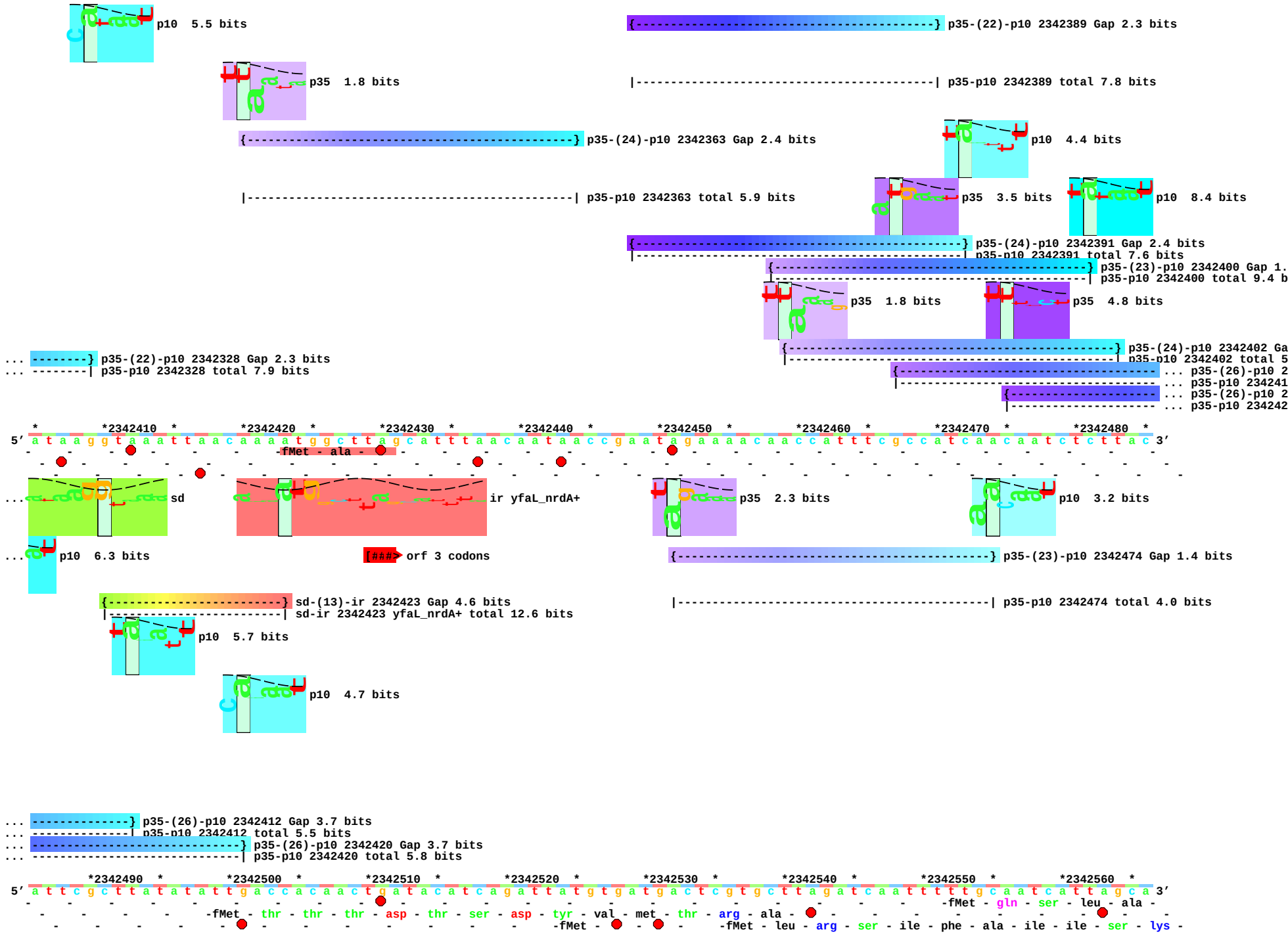
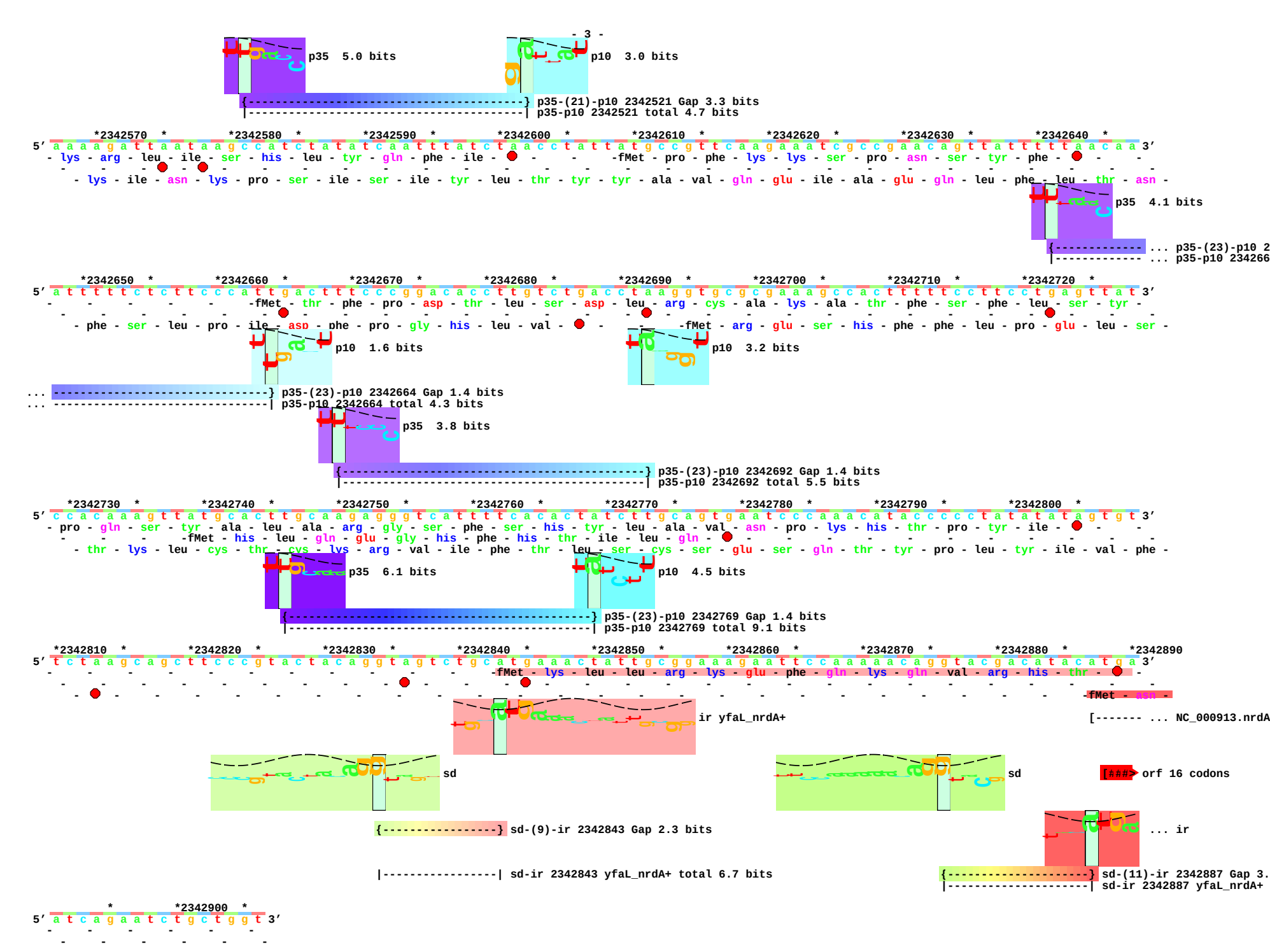
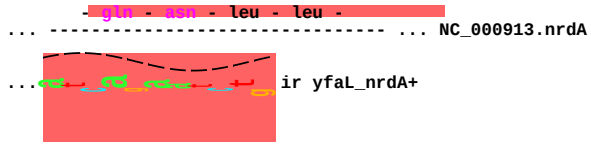

piece 1, NC_000913, yfaL_nrdA+, config: linear, direction: +, begin: 2342162, end: 2342906
*2342170 *2342180 *2342190 *2342200 *2342210 *2342220 *2342230 *2342240
5′ a t a c t c c t t g c g t a g a a a g a t a a t c c g c a t a t t a a t c t a a c c a t c a t t t t c t a t a a g a c g g c g t a t t t 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 -
... ----------] NC_000913.yfaL
p35 4.4 bits
p10 4.2 bits
p35 4.4 bits
p10 5.2 bits
p35-(26)-p10 2342236 Gap 3.7 bits
p35-(25)-p10 2342195 Gap 4.0 bits
p35 5.7 bits
p35-p10 2342195 total 5.5 bits
... p35-(22)-p10 23422
p35-p10 2342236 total 4.8 bits
... p35-p10 2342250 to
... p35-(25)-p10 23422
... p35-p10 2342253 to
*2342250 *2342260 *2342270 *2342280 *2342290 *2342300 *2342310 *2342320
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 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 -
p10 2.2 bits
p35 3.3 bits
ir yfaL_nrdA+
orf 10 codons
p10 4.5 bits
sd
sd
... ir
... p35-(22)-p10 2342250 Gap 2.3 bits
sd-(5)-ir 2342286 Gap 5.4 bits
sd-ir 2342286 yfaL_nrdA+ total 5.3 bits
sd-(11)-ir 2342321 Gap 3.0
sd-ir 2342321 yfaL_nrdA+ to
p10 5.2 bits
p10 4.6 bits
... p35-p10 2342250 total 5.6 bits
p35-(22)-p10 2342292 Gap 2.3 bits
p10 6.3 bits
... p35-(25)-p10 2342253 Gap 4.0 bits
p35 3.1 bits
p35 4.7 bits
... p35-p10 2342253 total 6.1 bits
p35-p10 2342292 total 6.1 bits
p35-(24)-p10 2342312 Gap 2.4 bits
p35-p10 2342312 total 5.3 bits
p35-(26)-p10 2342314 Gap 3.7 bits
p35-p10 2342314 total 5.7 bits
... p35-(22)-p10 23423
... p35-p10 2342328 to
*2342330 *2342340 *2342350 *2342360 *2342370 *2342380 *2342390 *2342400
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 -
orf 7 codons
p10 6.5 bits
p35 2.5 bits
... sd
... ir yfaL_nrdA+
p35 5.6 bits
p10 4.6 bits
... p10


p10 5.5 bits
p35 1.8 bits
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
p10 4.4 bits
p35 3.5 bits
p10 8.4 bits
p35-(24)-p10 2342391 Gap 2.4 bits
p35-p10 2342391 total 7.6 bits
p35-(23)-p10 2342400 Gap 1.
p35-p10 2342400 total 9.4 b
p35 1.8 bits
p35 4.8 bits
p35-(24)-p10 2342402 Ga
p35-p10 2342402 total 5
p35-(22)-p10 2342328 Gap 2.3 bits
p35-p10 2342328 total 7.9 bits
... p35-(26)-p10 2
... p35-p10 234241
... p35-(26)-p10 2
... p35-p10 234242
*2342410 *2342420 *2342430 *2342440 *2342450 *2342460 *2342470 *2342480 *
5' a t a a g g t 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 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'
fMet - ala -
sd
ir yfaL_nrdA+
p35 2.3 bits
p10 3.2 bits
p10 6.3 bits
[###> 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
p10 5.7 bits
p10 4.7 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 - leu - arg - ser - ile - phe - ala - ile - ile - ser - lys -


- 3 -
p35 5.0 bits
p10 3.0 bits
} p35-(21)-p10 2342521 Gap 3.3 bits
| p35-p10 2342521 total 4.7 bits
*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 c a a t t t a 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 4.1 bits
{ ... p35-(23)-p10 2
| ... p35-p10 234266
*2342650 *2342660 *2342670 *2342680 *2342690 *2342700 *2342710 *2342720 *
5' a t t t t t c t c t t c c c a t t g a c t t t c c c g g a c 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 -
p10 1.6 bits
p10 3.2 bits
... } p35-(23)-p10 2342664 Gap 1.4 bits
... | p35-p10 2342664 total 4.3 bits
p35 3.8 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 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 -
fMet - his - leu - gln - glu - gly - his - phe - his - thr - ile - leu - gln -
p35 6.1 bits
p10 4.5 bits
} 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 - asn -
ir yfaL_nrdA+
[------- ... NC_000913.nrdA
sd
sd
[###> 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.
|----------| sd-ir 2342887 yfaL_nrdA+
* *2342900 *
5' a t c a g a a t c t g c t g g t 3'


- gln - asn - leu - leu -
... ------------------------------ ... NC_000913.nrdA
... ir yfaL_nrdA+