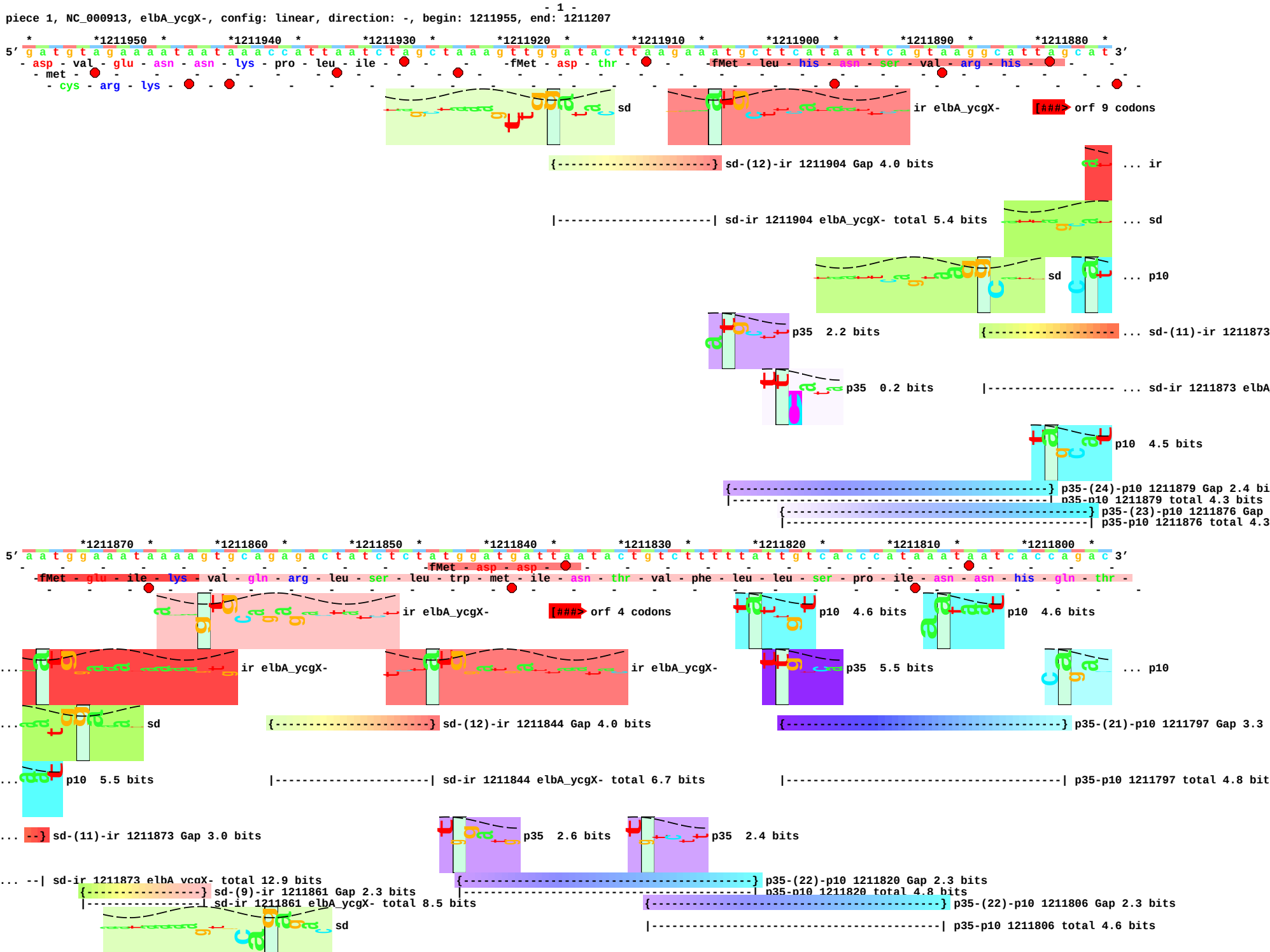
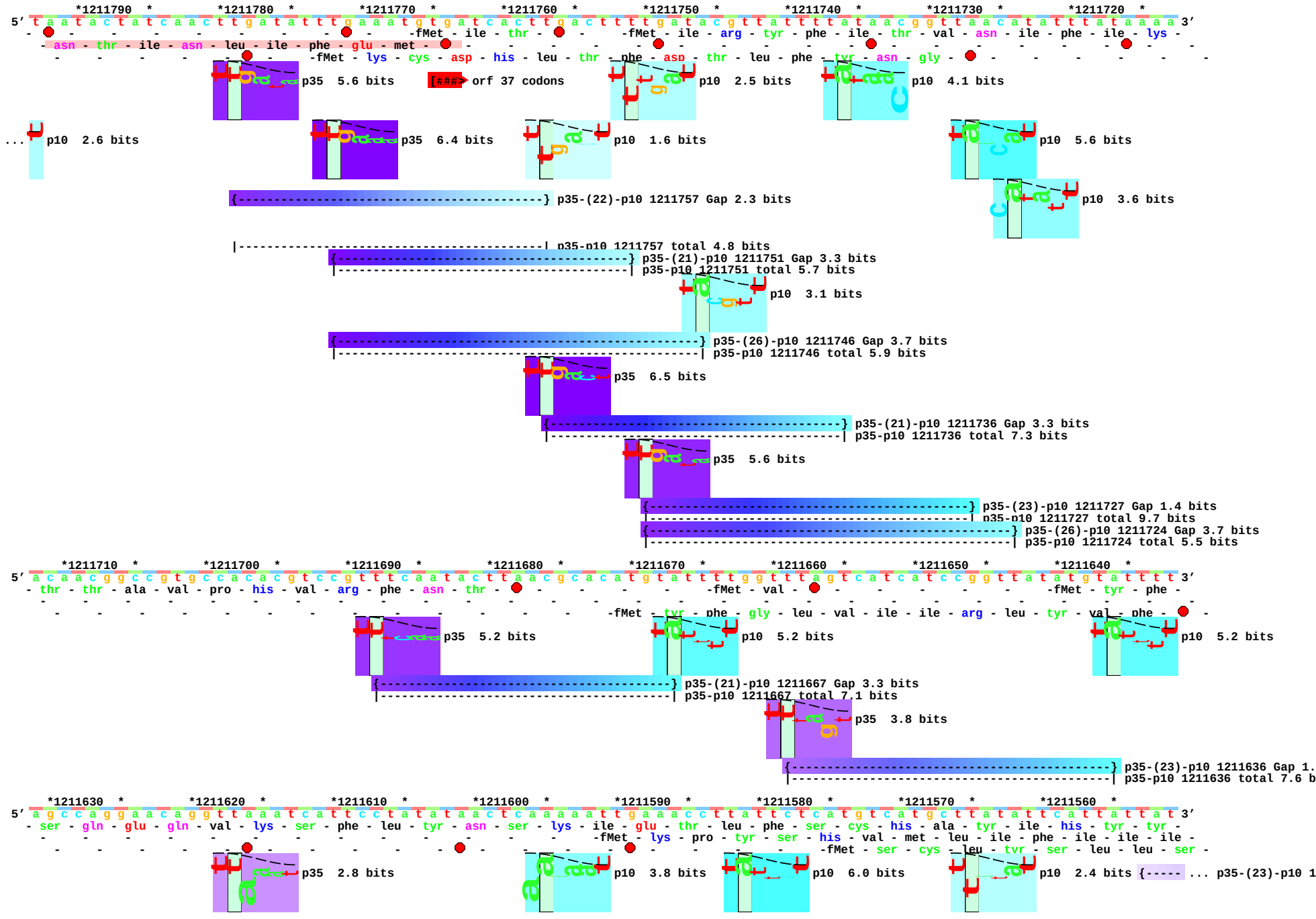
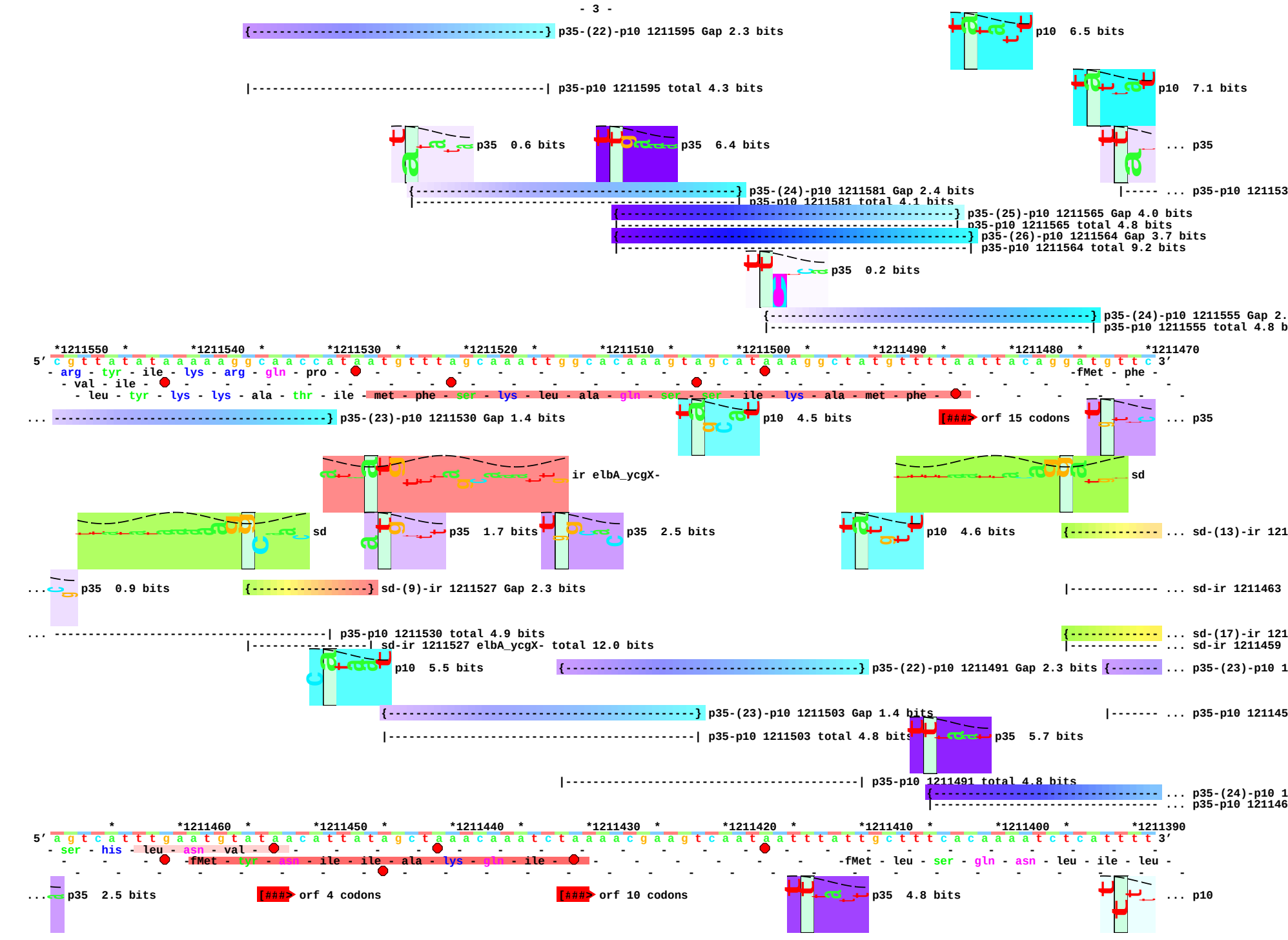
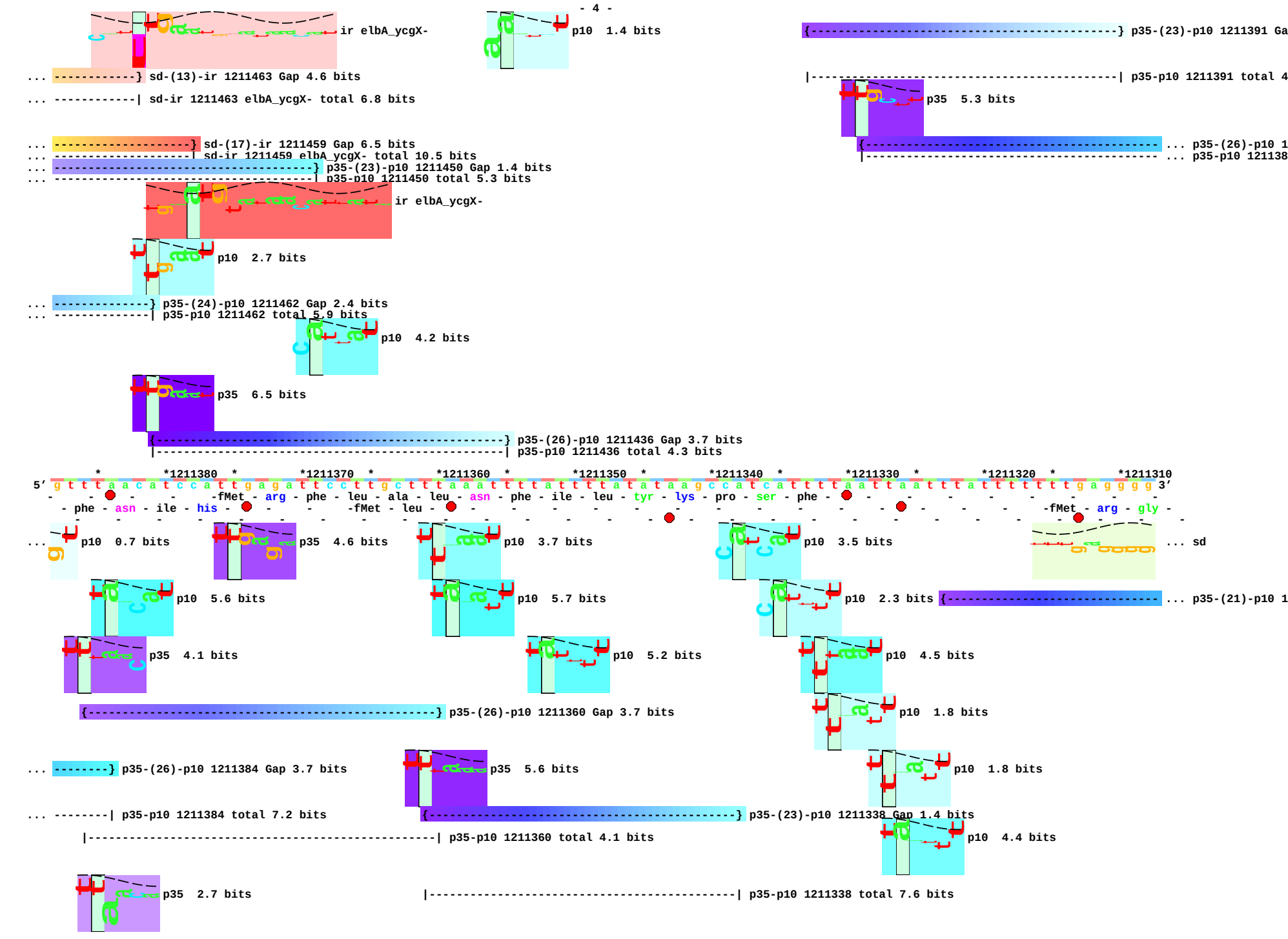
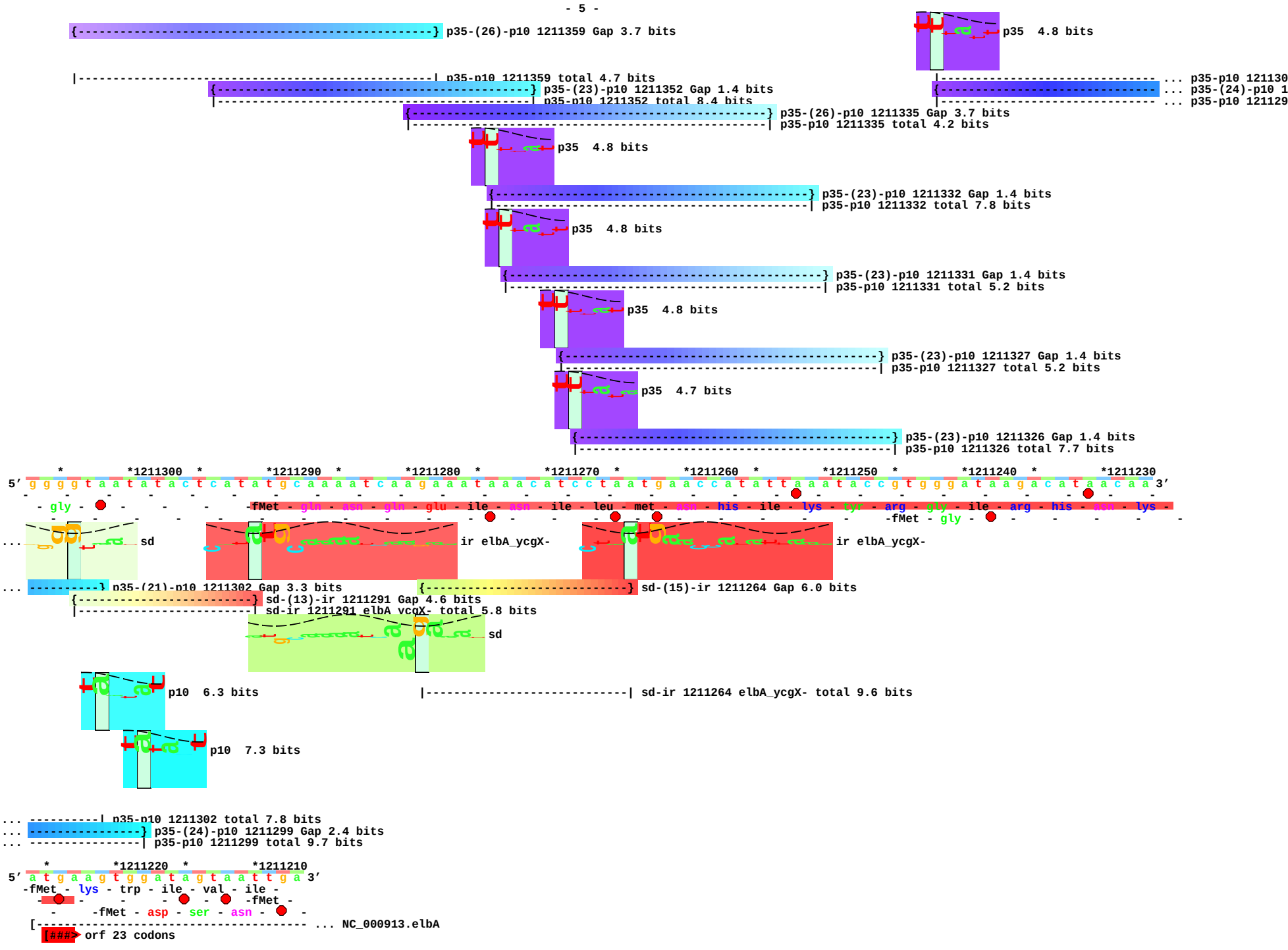
piece 1, NC_000913, elbA_ycgX-, config: linear, direction: -, begin: 1211955, end: 1211207




*1211790 *1211780 *1211770 *1211760 *1211750 *1211740 *1211730 *1211720 *
5' t a a t a c t a t c a a c t t g a t a t t t g a a a t g t g a t c a c t t g a c t t t t g a t a c g t t a t t t t a t a a c g g t t a a c a t a t t t a t a a a a 3'
- - - - - - - - - - -fMet - ile - thr - - -fMet - ile - arg - tyr - phe - ile - thr - val - asn - ile - phe - ile - lys -
- asn - thr - ile - asn - leu - ile - phe - glu - met -
- - - - - - - - - - -fMet - lys - cys - asp - his - leu - thr - phe - asp - thr - leu - phe - tyr - asn - gly - - - - - - - - - -
p35 5.6 bits [###> orf 37 codons p10 2.5 bits p10 4.1 bits
... p10 2.6 bits p35 6.4 bits p10 1.6 bits p10 5.6 bits
{----------} p35-(22)-p10 1211757 Gap 2.3 bits p10 3.6 bits
|----------| p35-p10 1211757 total 4.8 bits
{----------} p35-(21)-p10 1211751 Gap 3.3 bits
|----------| p35-p10 1211751 total 5.7 bits
p10 3.1 bits
{----------} p35-(26)-p10 1211746 Gap 3.7 bits
|----------| p35-p10 1211746 total 5.9 bits
p35 6.5 bits
{----------} p35-(21)-p10 1211736 Gap 3.3 bits
|----------| p35-p10 1211736 total 7.3 bits
p35 5.6 bits
{----------} p35-(23)-p10 1211727 Gap 1.4 bits
|----------| p35-p10 1211727 total 9.7 bits
{----------} p35-(26)-p10 1211724 Gap 3.7 bits
|----------| p35-p10 1211724 total 5.5 bits
*1211710 *1211700 *1211690 *1211680 *1211670 *1211660 *1211650 *1211640 *
5' a c a a c g g c c g t g c c a c a c g t c c g t t t c a a t a c t t a a c g c a c a t g t a t t t t g g t t t a g t c a t c a t c c g g t t a t a t g t a t t t t 3'
- thr - thr - ala - val - pro - his - val - arg - phe - asn - thr - - - - - - -fMet - val - - - - - - -fMet - tyr - phe -
- -
- -
-fMet - tyr - phe - gly - leu - val - ile - ile - arg - leu - tyr - val - phe - -
p35 5.2 bits p10 5.2 bits p10 5.2 bits
{----------} p35-(21)-p10 1211667 Gap 3.3 bits
|----------| p35-p10 1211667 total 7.1 bits
p35 3.8 bits
{----------} p35-(23)-p10 1211636 Gap 1.
|----------| p35-p10 1211636 total 7.6 b
*1211630 *1211620 *1211610 *1211600 *1211590 *1211580 *1211570 *1211560 *
5' a g c c a g g a a c a g g t t a a a t c a t t c c t a t a a c t c a a a a a t t g a a a c c t t a t t c t c a t g t c a t g c t t a t a t t c a t t a t t a t 3'
- ser - gln - glu - gln - val - lys - ser - phe - leu - tyr - asn - ser - lys - ile - glu - thr - leu - phe - ser - cys - his - ala - tyr - ile - his - tyr - tyr -
- -
- -
-fMet - lys - pro - tyr - ser - his - val - met - leu - ile - phe - ile - ile - ile -
-fMet - ser - cys - leu - tyr - ser - leu - leu - ser -
p35 2.8 bits p10 3.8 bits p10 6.0 bits p10 2.4 bits {----- ... p35-(23)-p10 1


p35-(22)-p10 1211595 Gap 2.3 bits
p10 6.5 bits
p35-p10 1211595 total 4.3 bits
p10 7.1 bits
p35 0.6 bits
p35 6.4 bits
... p35
p35-(24)-p10 1211581 Gap 2.4 bits
p35-p10 1211581 total 4.1 bits
|----- ... p35-p10 121153
p35-(25)-p10 1211565 Gap 4.0 bits
p35-p10 1211565 total 4.8 bits
p35-(26)-p10 1211564 Gap 3.7 bits
p35-p10 1211564 total 9.2 bits
p35 0.2 bits
p35-(24)-p10 1211555 Gap 2.
p35-p10 1211555 total 4.8 b
*1211550 *1211540 *1211530 *1211520 *1211510 *1211500 *1211490 *1211480 *1211470
5' c g t t a t a t a a a a g g c a a c a t a a t g t t t a g c a a a t t g g c a c a a a g t a g c a t a a a g g c t a t g t t t t a a t t a c a g g a t g t t c 3'
- arg - tyr - ile - lys - arg - gln - pro - -fMet - phe -
- val - ile -
- leu - tyr - lys - lys - ala - thr - ile - met - phe - ser - lys - leu - ala - gln - ser - ser - ile - lys - ala - met - phe -
... p35-(23)-p10 1211530 Gap 1.4 bits
p10 4.5 bits
[###> orf 15 codons
... p35
ir elbA_ycgX-
sd
sd
p35 1.7 bits
p35 2.5 bits
p10 4.6 bits
... sd-(13)-ir 121
...p35 0.9 bits
sd-(9)-ir 1211527 Gap 2.3 bits
... sd-ir 1211463
... p35-p10 1211530 total 4.9 bits
... sd-(17)-ir 121
sd-ir 1211527 elbA_ycgX- total 12.0 bits
... sd-ir 1211459
p10 5.5 bits
p35-(22)-p10 1211491 Gap 2.3 bits
... p35-(23)-p10 1
p35-(23)-p10 1211503 Gap 1.4 bits
... p35-p10 121145
p35-p10 1211503 total 4.8 bits
p35 5.7 bits
p35-p10 1211491 total 4.8 bits
... p35-(24)-p10 1
... p35-p10 121146
* *1211460 *1211450 *1211440 *1211430 *1211420 *1211410 *1211400 *1211390
5' a g t c a t t t g a a t g t a t a a c a t t a t a g c t a a a c a a a t c t a a a a c g a a g t c a a t a a t t t a t t g c t t t c a c a a a a t c t c a t t t t 3'
- ser - his - leu - asn - val -
-fMet - tyr - asn - ile - ile - ala - lys - gln - ile -
-fMet - leu - ser - gln - asn - leu - ile - leu -
...p35 2.5 bits
[###> orf 4 codons
[###> orf 10 codons
p35 4.8 bits
... p10


ir elbA_ycgX-
p10 1.4 bits
} p35-(23)-p10 1211391 Ga
} sd-(13)-ir 1211463 Gap 4.6 bits
| p35-p10 1211391 total 4
| sd-ir 1211463 elbA_ycgX- total 6.8 bits
p35 5.3 bits
} sd-(17)-ir 1211459 Gap 6.5 bits
} ... p35-(26)-p10 1
| sd-ir 1211459 elbA_ycgX- total 10.5 bits
| ... p35-p10 121138
} p35-(23)-p10 1211450 Gap 1.4 bits
| p35-p10 1211450 total 5.3 bits
ir elbA_ycgX-
p10 2.7 bits
} p35-(24)-p10 1211462 Gap 2.4 bits
| p35-p10 1211462 total 5.9 bits
p10 4.2 bits
p35 6.5 bits
} p35-(26)-p10 1211436 Gap 3.7 bits
| p35-p10 1211436 total 4.3 bits
*1211380 *1211370 *1211360 *1211350 *1211340 *1211330 *1211320 *1211310
5’ g t t t a a c a t c c a t t g a g a t t c c t t g c t t t a a a t t t t a t t t t a t a t a a g c c a t c a t t t t a a t t a a t t t a t t t t t t t g a g g g g 3’
-fMet - arg - phe - leu - ala - leu - asn - phe - ile - leu - tyr - lys - pro - ser - phe -
- phe - asn - ile - his -
-fMet - leu -
-fMet - arg - gly -
p10 0.7 bits
p35 4.6 bits
p10 3.7 bits
p10 3.5 bits
... sd
p10 5.6 bits
p10 5.7 bits
p10 2.3 bits
} ... p35-(21)-p10 1
p35 4.1 bits
p10 5.2 bits
p10 4.5 bits
} p35-(26)-p10 1211360 Gap 3.7 bits
p10 1.8 bits
} p35-(26)-p10 1211384 Gap 3.7 bits
p35 5.6 bits
p10 1.8 bits
| p35-p10 1211384 total 7.2 bits
} p35-(23)-p10 1211338 Gap 1.4 bits
| p35-p10 1211360 total 4.1 bits
p10 4.4 bits
p35 2.7 bits
| p35-p10 1211338 total 7.6 bits


{----------} p35-(26)-p10 1211359 Gap 3.7 bits
p35 4.8 bits
|----------| p35-p10 1211359 total 4.7 bits
|---------- ... p35-p10 121130
{----------} p35-(23)-p10 1211352 Gap 1.4 bits
{---------- ... p35-(24)-p10 1
|----------| p35-p10 1211352 total 8.4 bits
|---------- ... p35-p10 121129
{----------} p35-(26)-p10 1211335 Gap 3.7 bits
|----------| p35-p10 1211335 total 4.2 bits
p35 4.8 bits
{----------} p35-(23)-p10 1211332 Gap 1.4 bits
|----------| p35-p10 1211332 total 7.8 bits
p35 4.8 bits
{----------} p35-(23)-p10 1211331 Gap 1.4 bits
|----------| p35-p10 1211331 total 5.2 bits
p35 4.8 bits
{----------} p35-(23)-p10 1211327 Gap 1.4 bits
|----------| p35-p10 1211327 total 5.2 bits
p35 4.7 bits
{----------} p35-(23)-p10 1211326 Gap 1.4 bits
|----------| p35-p10 1211326 total 7.7 bits
* *1211300 * *1211290 * *1211280 * *1211270 * *1211260 * *1211250 * *1211240 * *1211230
5' g g g g t a a t a t a c t c a t a t g c a a a a t c a a g a a a t a a a c a t c c t a a t g a a c c a t a t t a a a t a c c g t g g g a t a a g a c a t a a c a a 3'
- gly - -fMet - gln - asn - gln - glu - ile - asn - ile - leu - met - asn - his - ile - lys - tyr - arg - gly - ile - arg - his - asn - lys -
-fMet - gly -
... sd
ir elbA_ycgX-
ir elbA_ycgX-
... {----------} p35-(21)-p10 1211302 Gap 3.3 bits
{----------} sd-(15)-ir 1211264 Gap 6.0 bits
{----------} sd-(13)-ir 1211291 Gap 4.6 bits
|----------| sd-ir 1211291 elbA_ycgX- total 5.8 bits
sd
p10 6.3 bits
|----------| sd-ir 1211264 elbA_ycgX- total 9.6 bits
p10 7.3 bits
... ----------| p35-p10 1211302 total 7.8 bits
... {----------} p35-(24)-p10 1211299 Gap 2.4 bits
... ----------| p35-p10 1211299 total 9.7 bits
* *1211220 * *1211210
5' a t g a a g t g g a t a g t a a t t g a 3'
-fMet - lys - trp - ile - val - ile -
-fMet -
-fMet - asp - ser - asn -
[---------- ... NC_000913.elbA
[###> orf 23 codons