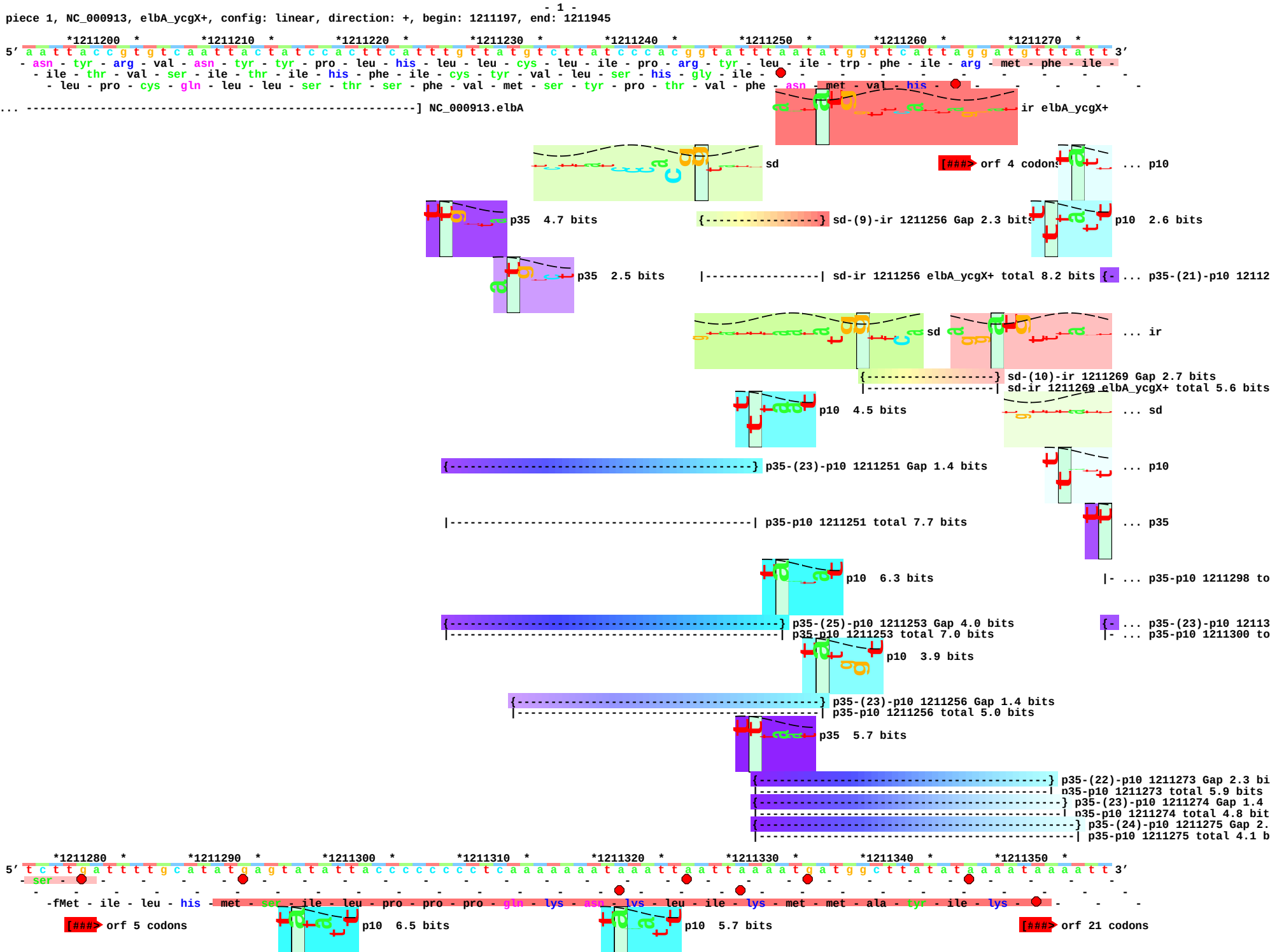
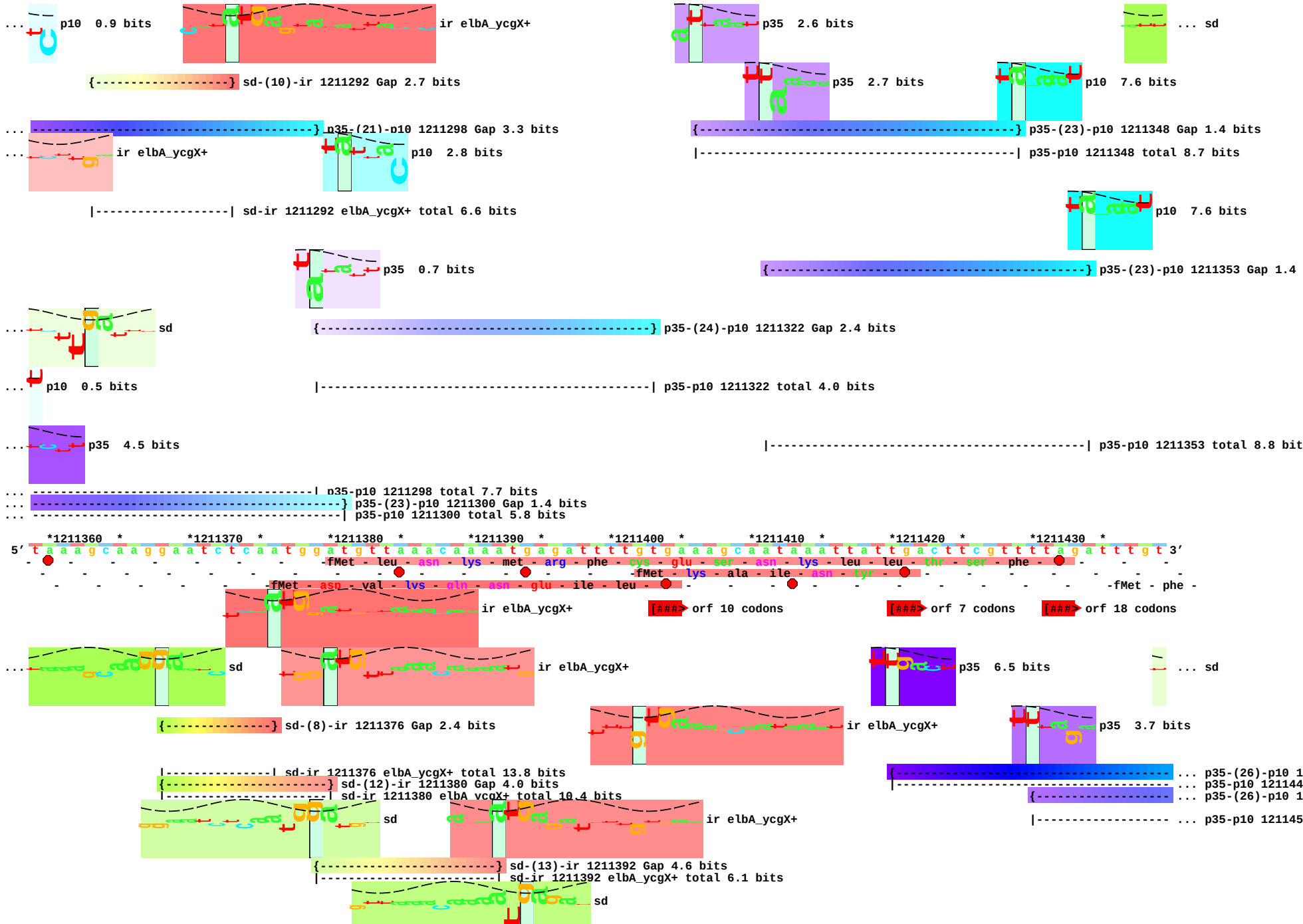
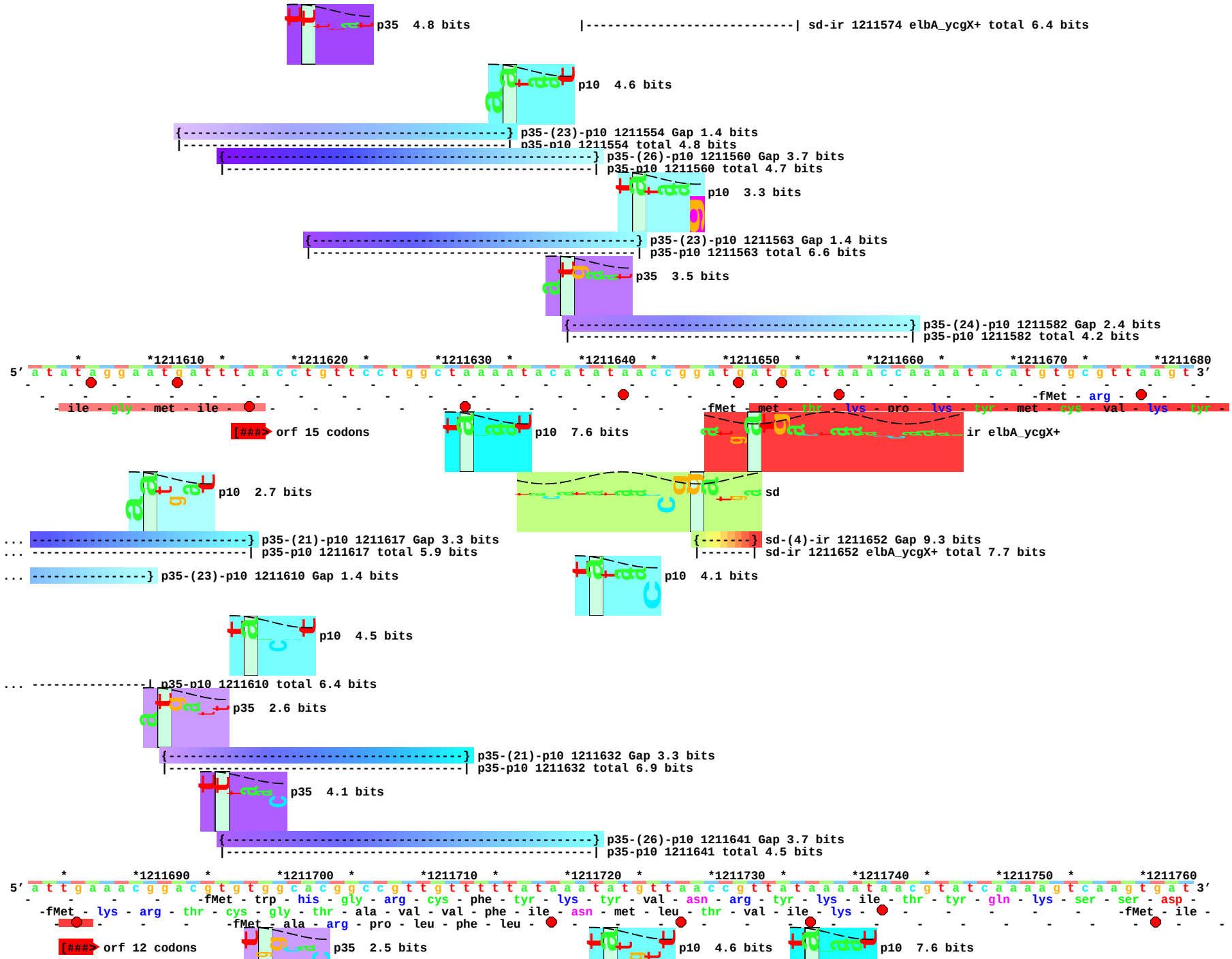
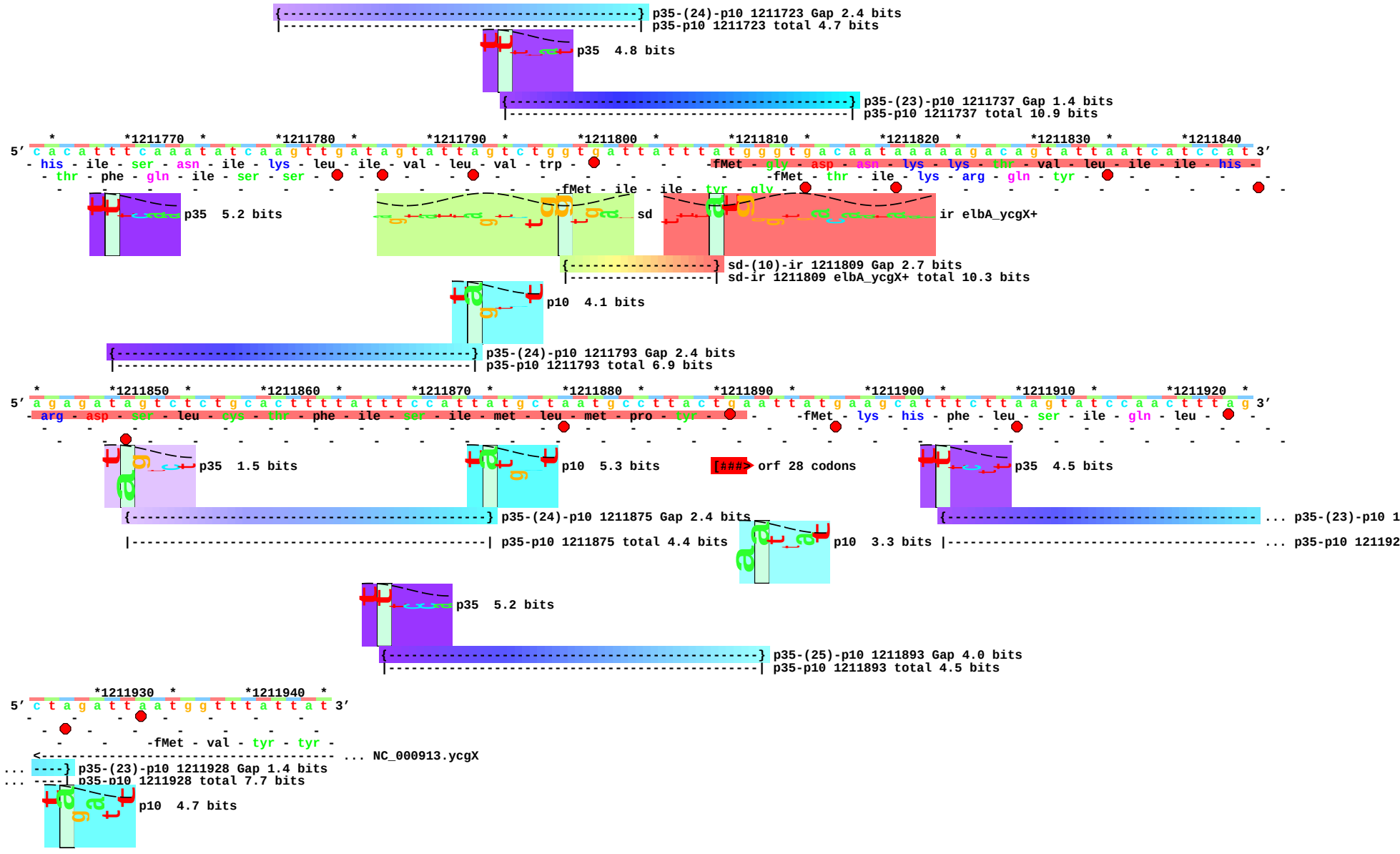

piece 1, NC_000913, elbA_ycgX+, config: linear, direction: +, begin: 1211197, end: 1211945
*1211200 *1211210 *1211220 *1211230 *1211240 *1211250 *1211260 *1211270 *
5' a a t t a c c g t g t c a a t t a c t a t c c a c t t c a t t g t t a t g t c t t a t c c c a c g g t a t t t a a t a t g g t t c a t t a g g a t g t t t a t t 3'
- asn - tyr - arg - val - asn - tyr - tyr - pro - leu - his - leu - leu - cys - leu - ile - pro - arg - tyr - leu - ile - trp - phe - ile - arg - met - phe - ile -
- ile - thr - val - ser - ile - thr - ile - his - phe - ile - cys - tyr - val - leu - ser - his - gly - ile -
- leu - pro - cys - gln - leu - leu - ser - thr - ser - phe - val - met - ser - tyr - pro - thr - val - phe - asn - met - val - his -
... ----------] NC_000913.elbA
ir elbA_ycgX+
sd
[###> orf 4 codons
... p10
p35 4.7 bits
{----------} sd-(9)-ir 1211256 Gap 2.3 bits
p10 2.6 bits
p35 2.5 bits
|----------| sd-ir 1211256 elbA_ycgX+ total 8.2 bits
{- ... p35-(21)-p10 12112
sd
... ir
{----------} sd-(10)-ir 1211269 Gap 2.7 bits
|----------| sd-ir 1211269 elbA_ycgX+ total 5.6 bits
p10 4.5 bits
... sd
{----------} p35-(23)-p10 1211251 Gap 1.4 bits
... p10
|----------| p35-p10 1211251 total 7.7 bits
... p35
p10 6.3 bits
|- ... p35-p10 1211298 to
{----------} p35-(25)-p10 1211253 Gap 4.0 bits
{- ... p35-(23)-p10 12113
|----------| p35-p10 1211253 total 7.0 bits
|- ... p35-p10 1211300 to
p10 3.9 bits
{----------} p35-(23)-p10 1211256 Gap 1.4 bits
|----------| p35-p10 1211256 total 5.0 bits
p35 5.7 bits
{----------} p35-(22)-p10 1211273 Gap 2.3 bi
|----------| p35-p10 1211273 total 5.9 bits
{----------} p35-(23)-p10 1211274 Gap 1.4
|----------| p35-p10 1211274 total 4.8 bit
{----------} p35-(24)-p10 1211275 Gap 2.
|----------| p35-p10 1211275 total 4.1 b
*1211280 *1211290 *1211300 *1211310 *1211320 *1211330 *1211340 *1211350 *
5' t c t t g a t t t t g c a t a t g a g t a t a t t a c c c c c c c c t c a a a a a a a t a a a t t a a t t a a a a t g a t g g c t t a t a a a a t a a a a a t t 3'
- ser -
-fMet - ile - leu - his - met - ser - ile - leu - pro - pro - pro - gln - lys - asn - lys - leu - ile - lys - met - met - ala - tyr - ile - lys -
[###> orf 5 codons
p10 6.5 bits
p10 5.7 bits
[###> orf 21 codons


... p10 0.9 bits
ir elbA_ycgX+
{----------} sd-(10)-ir 1211292 Gap 2.7 bits
... } p35-(21)-p10 1211298 Gap 3.3 bits
... ir elbA_ycgX+
p10 2.8 bits
|----------| sd-ir 1211292 elbA_ycgX+ total 6.6 bits
p35 0.7 bits
... sd
... p10 0.5 bits
... p35 4.5 bits
... | p35-p10 1211298 total 7.7 bits
... } p35-(23)-p10 1211300 Gap 1.4 bits
... | p35-p10 1211300 total 5.8 bits
*1211360 *1211370 *1211380 *1211390 *1211400 *1211410 *1211420 *1211430 *
5' t a a a g c a a g g a a t c t c a a t g g a t g t t a a a c a a a a t g a g a t t t t g t g a a a g c a a t a a a t t a t t g a c t t c g t t t t a g a t t t g t 3'
fMet - leu - asn - lys - met - arg - phe - cys - glu - ser - asn - lys - leu - leu - thr - ser - phe -
fMet - lys - ala - ile - asn - tyr -
fMet - asn - val - lys - gln - asn - glu - ile - leu -
fMet - phe -
ir elbA_ycgX+
[###> orf 10 codons
[###> orf 7 codons
[###> orf 18 codons
... sd
ir elbA_ycgX+
p35 6.5 bits
... sd
{----------} sd-(8)-ir 1211376 Gap 2.4 bits
ir elbA_ycgX+
p35 3.7 bits
|----------| sd-ir 1211376 elbA_ycgX+ total 13.8 bits
{----------} sd-(12)-ir 1211380 Gap 4.0 bits
|----------| sd-ir 1211380 elbA_ycgX+ total 10.4 bits
... p35-(26)-p10 1
... p35-p10 121144
... p35-(26)-p10 1
... p35-p10 121145
sd
ir elbA_ycgX+
{----------} sd-(13)-ir 1211392 Gap 4.6 bits
|----------| sd-ir 1211392 elbA_ycgX+ total 6.1 bits
sd
p10 7.6 bits
p35 2.6 bits
... sd
p35 2.7 bits
p10 7.6 bits
{----------} p35-(23)-p10 1211348 Gap 1.4 bits
|----------| p35-p10 1211348 total 8.7 bits
p10 7.6 bits
{----------} p35-(23)-p10 1211353 Gap 1.4
{----------} p35-(24)-p10 1211322 Gap 2.4 bits
|----------| p35-p10 1211322 total 4.0 bits
|----------| p35-p10 1211353 total 8.8 bit

sd-(8)-ir 1211402 Gap 2.4 bits
sd-ir 1211402 elbA_ycgX+ total 10.7 bits
*1211440 *1211450 *1211460 *1211470 *1211480 *1211490 *1211500 *1211510 *1211520
5' t t a g c t a t a a t g t t a t a c a t t c a a a t g a c t g a a c a t c c t g t a a t t a a a a c a t a g c c t t t a t g c t a c t t t g t g c c a a t t t g c 3'
-fMet - leu - tyr - ile - gln - met - thr - glu - his - pro - val - ile - lys - thr -
-fMet - pro - ile - cys -
-fMet - cys - gln - phe - ala -
- ser - tyr - asn - val - ile - his - ser - asn - asp -
-fMet - leu - leu - cys - ala - asn - leu - leu -
p10 8.4 bits
ir elbA_ycgX+
[###> orf 10 codons
... p35
sd
{----- ... p35-(22)-p10 1
{-----------------------} sd-(13)-ir 1211464 Gap 4.6 bits
|----- ... p35-p10 121154
... {----------} p35-(26)-p10 1211446 Gap 3.7 bits
... |---------- p35-p10 1211446 total 11.2 bits
... {-----------------------------} p35-(26)-p10 1211456 Gap 3.7 bits
... |------------------------------ p35-p10 1211456 total 5.1 bits
|-------------------------| sd-ir 1211464 elbA_ycgX+ total 6.1 bits
p10 5.1 bits
* *1211530 *1211540 *1211550 *1211560 *1211570 *1211580 *1211590 *1211600
5' t a a a c a t t a t g g t t g c c t t t t t a t a t a a c g a t a a t a a t g a a t a t a a g c a t g a c a t g a g a a t a a g g t t t c a a t t t t t g a g t t 3'
-fMet - pro - phe - tyr - ile - thr - ile - ile - met - asn - ile - ser - met - thr -
- lys - his - tyr - gly - cys - leu - phe - ile -
- asn - ile - met - val - ala - phe - leu - tyr - asn - asp - asn - asn - glu - tyr - lys - his - asp - met - arg - ile - arg - phe - gln - phe - leu - ser - tyr -
... p35 5.2 bits
p10 3.2 bits
ir elbA_ycgX+
p10 3.2 bits
p35 4.7 bits
... {-------------------------------------} p35-(22)-p10 1211540 Gap 2.3 bits
p10 2.2 bits
[###> orf 7 codons
p35 5.2 bits
... |------------------------------------ p35-p10 1211540 total 6.1 bits
ir elbA_ycgX+
{---------- ... p35-(21)-p10 1
... {---} p35-(24)-p10 1211542 Gap 2.4 bits
ir elbA_ycgX+ |---------- ... p35-p10 121161
... |--- p35-p10 1211542 total 5.2 bits
{-----------------} sd-(10)-ir 1211569 Gap 2.7 bits
{--------------------------- ... p35-(23)-p10 1
sd
|-----------------| sd-ir 1211569 elbA_ycgX+ total 8.6 bits
p35 1.7 bits
{-----------} sd-(7)-ir 1211557 Gap 3.7 bits
|--------------------------- ... p35-p10 121161
p35 6.2 bits
|-----------| sd-ir 1211557 elbA_ycgX+ total 11.5 bits
sd
p10 2.4 bits
{--------------------------} sd-(15)-ir 1211574 Gap 6.0 bits


p35 4.8 bits
|----------| sd-ir 1211574 elbA_ycgX+ total 6.4 bits
p10 4.6 bits
{----------} p35-(23)-p10 1211554 Gap 1.4 bits
|----------| p35-p10 1211554 total 4.8 bits
{----------} p35-(26)-p10 1211560 Gap 3.7 bits
|----------| p35-p10 1211560 total 4.7 bits
p10 3.3 bits
{----------} p35-(23)-p10 1211563 Gap 1.4 bits
|----------| p35-p10 1211563 total 6.6 bits
p35 3.5 bits
{----------} p35-(24)-p10 1211582 Gap 2.4 bits
|----------| p35-p10 1211582 total 4.2 bits
*1211610 *1211620 *1211630 *1211640 *1211650 *1211660 *1211670 *1211680
5' a t a t a g g a a t g a t t t a a c c t g t t c c t g g c t a a a a t a c a t a t a a c c g g a t g a t g a c t a a a c c a a a a t a c a t g t g c g t t a a g t 3'
-fMet - arg -
- ile - gly - met - ile -
-fMet - met - thr - lys - pro - lys - tyr - met - cys - val - lys - tyr -
[###> orf 15 codons
p10 7.6 bits
ir elbA_ycgX+
p10 2.7 bits
sd
... {----------} p35-(21)-p10 1211617 Gap 3.3 bits
... |----------| p35-p10 1211617 total 5.9 bits
{-------} sd-(4)-ir 1211652 Gap 9.3 bits
|-------| sd-ir 1211652 elbA_ycgX+ total 7.7 bits
... {----------} p35-(23)-p10 1211610 Gap 1.4 bits
p10 4.1 bits
p10 4.5 bits
... |----------| p35-p10 1211610 total 6.4 bits
p35 2.6 bits
{----------} p35-(21)-p10 1211632 Gap 3.3 bits
|----------| p35-p10 1211632 total 6.9 bits
p35 4.1 bits
{----------} p35-(26)-p10 1211641 Gap 3.7 bits
|----------| p35-p10 1211641 total 4.5 bits
*1211690 *1211700 *1211710 *1211720 *1211730 *1211740 *1211750 *1211760
5' a t t g a a a c g g a c g t g t g g c a c g g c c g t t g t t t t t a t a a a t a t g t t a a c c g t t a t a a a a t a a c g t a t c a a a a g t c a a g t g a t 3'
-fMet - trp - his - gly - arg - cys - phe - tyr - lys - tyr - val - asn - arg - tyr - lys - ile - thr - tyr - gln - lys - ser - ser - asp -
-fMet - lys - arg - thr - cys - gly - thr - ala - val - val - phe - ile - asn - met - leu - thr - val - ile - lys -
-fMet - ala - arg - pro - leu - phe - leu -
-fMet - ile -
[###> orf 12 codons
p35 2.5 bits
p10 4.6 bits
p10 7.6 bits


p35-(24)-p10 1211723 Gap 2.4 bits
p35-p10 1211723 total 4.7 bits
p35 4.8 bits
p35-(23)-p10 1211737 Gap 1.4 bits
p35-p10 1211737 total 10.9 bits
*1211770 *1211780 *1211790 *1211800 *1211810 *1211820 *1211830 *1211840
5′ c a c a t t t c a a a t a t c a a g t t g a t a g t a t t a g t c t g g t g a t t a t t t a t g g g t g a c a a t a a a a a g a c a g t a t t a a t c a t c c a t 3′
- his - ile - ser - asn - ile - lys - leu - ile - val - leu - val - trp -
-fMet - gly - asp - asn - lys - lys - thr - val - leu - ile - ile - his -
- thr - phe - gln - ile - ser - ser -
-fMet - thr - ile - lys - arg - gln - tyr -
-fMet - ile - ile - tyr - gly -
p35 5.2 bits
sd
ir elbA_ycgX+
sd-(10)-ir 1211809 Gap 2.7 bits
sd-ir 1211809 elbA_ycgX+ total 10.3 bits
p10 4.1 bits
p35-(24)-p10 1211793 Gap 2.4 bits
p35-p10 1211793 total 6.9 bits
*1211850 *1211860 *1211870 *1211880 *1211890 *1211900 *1211910 *1211920
5′ a g a g a t a g t c t c t g c a c t t t t a t t t c c a t t a t g c t a a t g c c t t a c t g a a t t a t g a a g c a t t t c t t a a g t a t c c a a c t t t a g 3′
- arg - asp - ser - leu - cys - thr - phe - ile - ser - ile - met - leu - met - pro - tyr -
-fMet - lys - his - phe - leu - ser - ile - gln - leu -
p35 1.5 bits
p10 5.3 bits
[###> orf 28 codons
p35 4.5 bits
p35-(24)-p10 1211875 Gap 2.4 bits
p35-p10 1211875 total 4.4 bits
p10 3.3 bits
... p35-(23)-p10 1
... p35-p10 121192
p35 5.2 bits
p35-(25)-p10 1211893 Gap 4.0 bits
p35-p10 1211893 total 4.5 bits
*1211930 *1211940
5′ c t a g a t t a a t g g t t t a t t a t 3′
-fMet - val - tyr - tyr -
<---------- ... NC_000913.ycgX
... p35-(23)-p10 1211928 Gap 1.4 bits
... p35-p10 1211928 total 7.7 bits
p10 4.7 bits