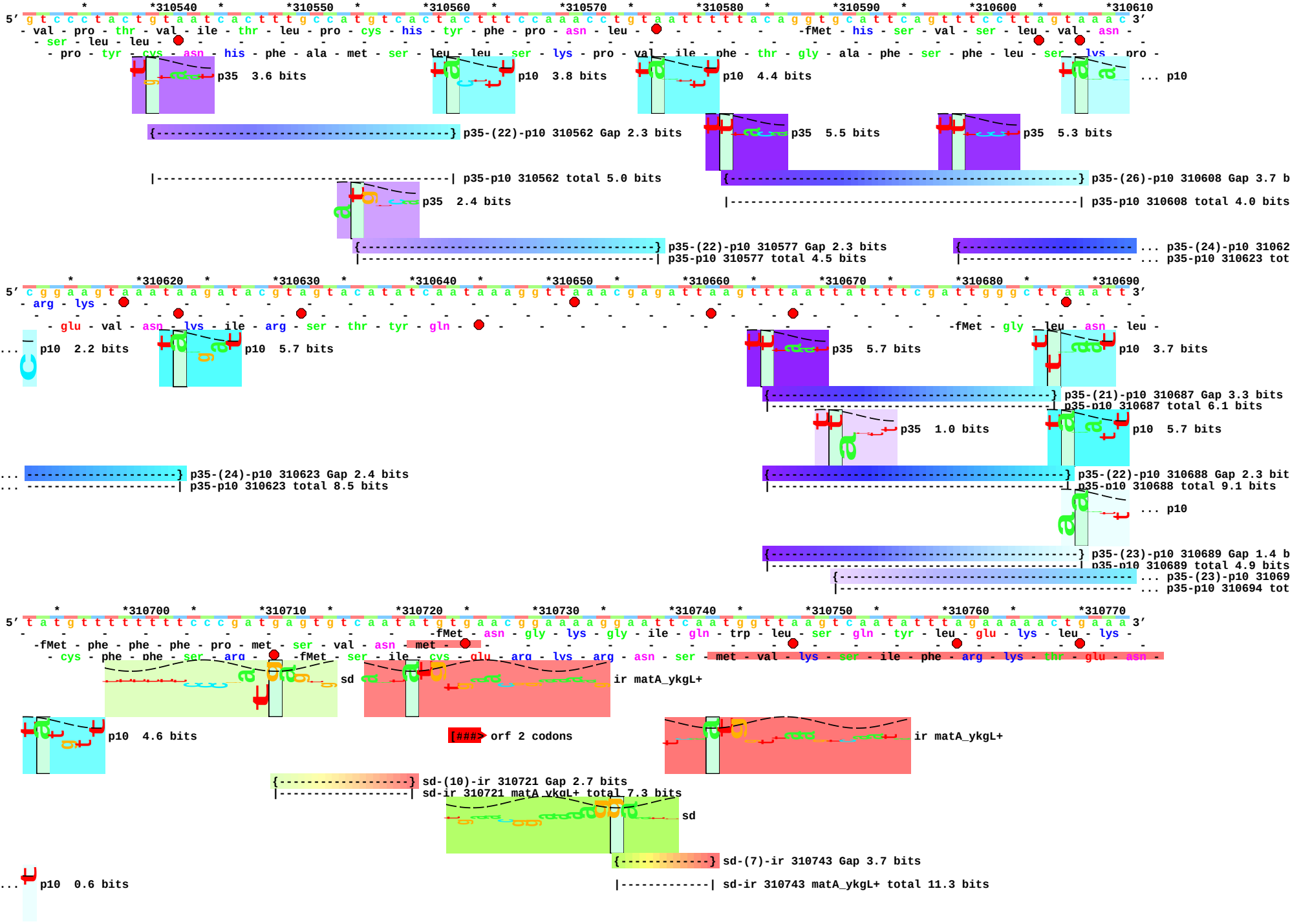
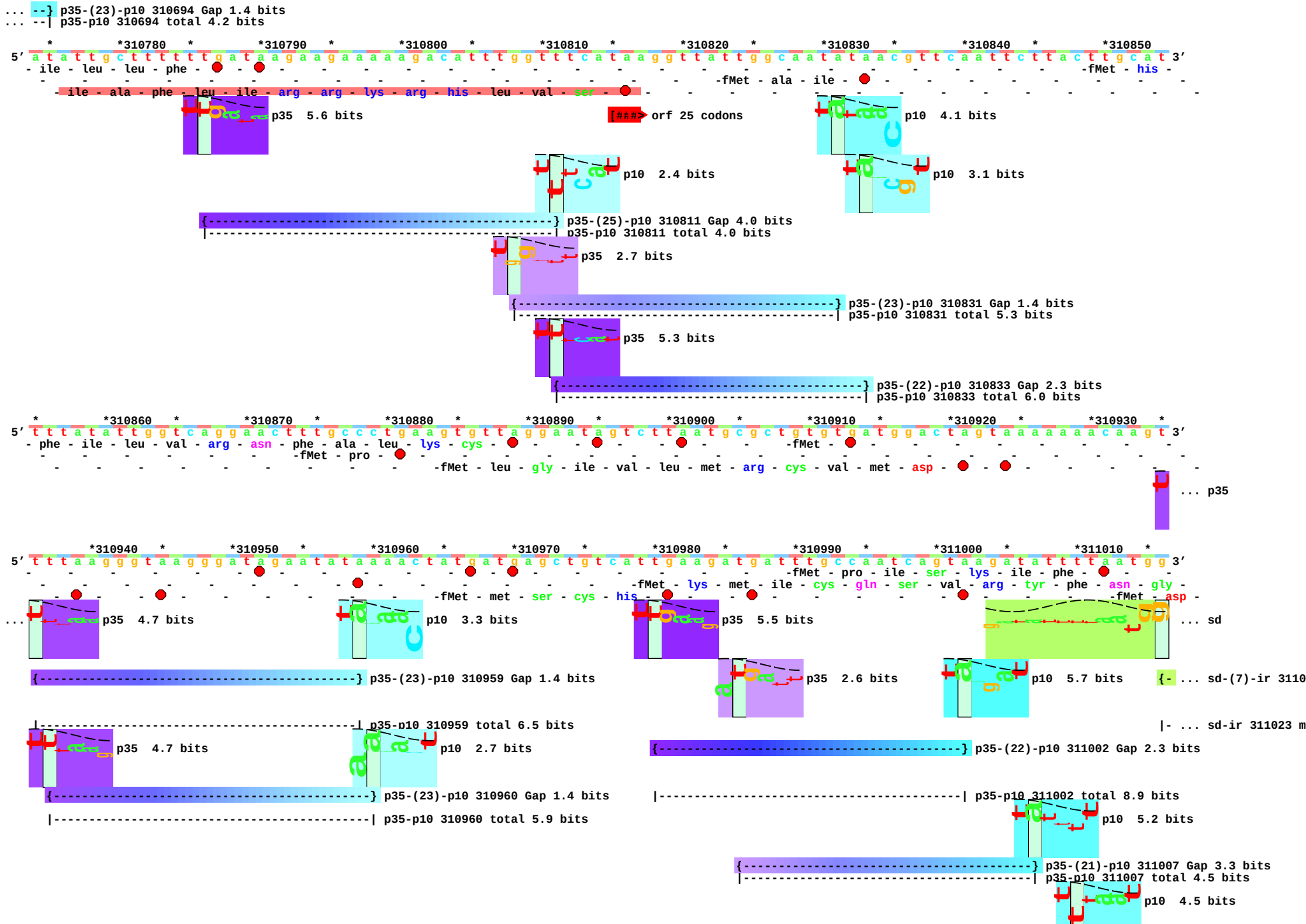
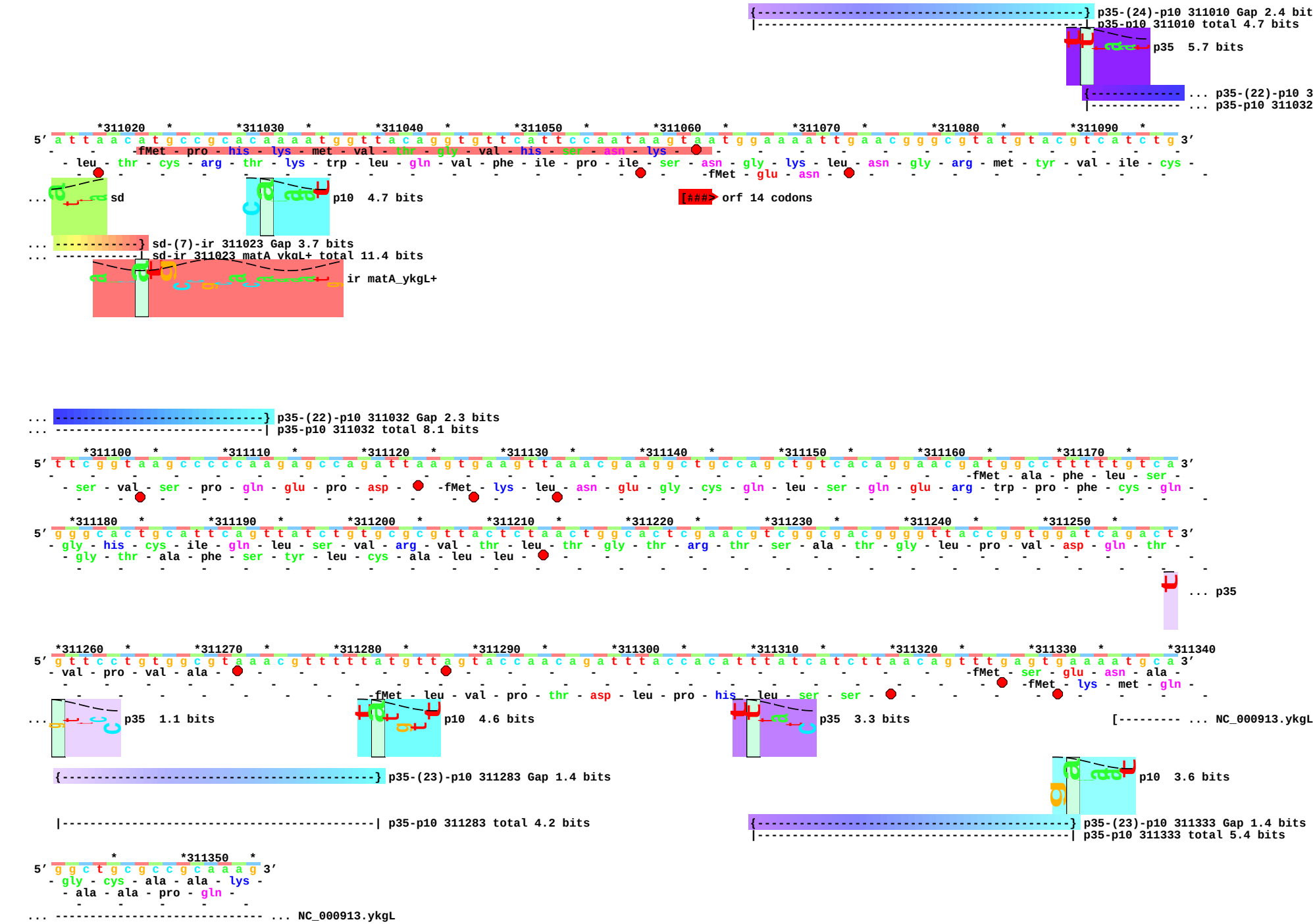
piece 1, NC_000913, matA_ykgL+, config: linear, direction: +, begin: 310531, end: 311355




... --} p35-(23)-p10 310694 Gap 1.4 bits
... --| p35-p10 310694 total 4.2 bits
*310780 *310790 *310800 *310810 *310820 *310830 *310840 *310850
5' a t a t t g c t t t t t t g a t a a g a a g a a a a a g a c a t t t g g t t t c a t a a g g t t a t t g g c a a t a t a a c g t t c a a t t c t t a c t t g c a t 3'
- ile - leu - leu - phe - -fMet - his -
-fMet - ala - ile -
- ile - ala - phe - leu - ile - arg - arg - lys - arg - his - leu - val - ser -
p35 5.6 bits
[###> orf 25 codons
p10 4.1 bits
p10 2.4 bits
p10 3.1 bits
{---} p35-(25)-p10 310811 Gap 4.0 bits
|---| p35-p10 310811 total 4.0 bits
p35 2.7 bits
{---} p35-(23)-p10 310831 Gap 1.4 bits
|---| p35-p10 310831 total 5.3 bits
p35 5.3 bits
{---} p35-(22)-p10 310833 Gap 2.3 bits
|---| p35-p10 310833 total 6.0 bits
*310860 *310870 *310880 *310890 *310900 *310910 *310920 *310930
5' t t t a t a t t g g t c a g g a a c t t t g c c c t g a a g t g t t a g g a a t a g t c t t a a t g c g c t g t g t g a t g g a c t a g t a a a a a a a a c a a g t 3'
- phe - ile - leu - val - arg - asn - phe - ala - leu - lys - cys - -fMet -
-fMet - pro -
-fMet - leu - gly - ile - val - leu - met - arg - cys - val - met - asp -
... p35
*310940 *310950 *310960 *310970 *310980 *310990 *311000 *311010
5' t t t a a g g g t a a g g g a t a g a a t a t a a a a c t a t g a t g a g c t g t c a t t g a a g a t g a t t g c c a a t c a g t a a g a t a t t t t a a t g g 3'
-fMet - pro - ile - ser - lys - ile - phe -
-fMet - lys - met - ile - cys - gln - ser - val - arg - tyr - phe - asn - gly -
-fMet - met - ser - cys - his -
-fMet - asp -
... p35 4.7 bits
p10 3.3 bits
p35 5.5 bits
... sd
{---} p35-(23)-p10 310959 Gap 1.4 bits
p35 2.6 bits
p10 5.7 bits
{- ... sd-(7)-ir 3110
|---| p35-p10 310959 total 6.5 bits
|- ... sd-ir 311023 m
p35 4.7 bits
p10 2.7 bits
{---} p35-(22)-p10 311002 Gap 2.3 bits
{---} p35-(23)-p10 310960 Gap 1.4 bits
|---| p35-p10 311002 total 8.9 bits
|---| p35-p10 310960 total 5.9 bits
p10 5.2 bits
{---} p35-(21)-p10 311007 Gap 3.3 bits
|---| p35-p10 311007 total 4.5 bits
p10 4.5 bits


p35-(24)-p10 311010 Gap 2.4 bit
p35-p10 311010 total 4.7 bits
p35 5.7 bits
... p35-(22)-p10 3
... p35-p10 311032
*311020 *311030 *311040 *311050 *311060 *311070 *311080 *311090
5' a t t a a c a t g c c g c a c a a a a t g g t t a c a g g t g t t c a t t c c a a t a a g t a a t g g a a a a t t g a a c g g g c g t a t g t a c g t c a t c t g 3'
fMet pro his lys met val thr gly val his ser asn lys
leu thr cys arg thr lys trp leu gln val phe ile pro ile ser asn gly lys leu asn gly arg met tyr val ile cys
fMet glu asn
sd
p10 4.7 bits
[###> orf 14 codons
sd-(7)-ir 311023 Gap 3.7 bits
sd-ir 311023 matA ykgL+ total 11.4 bits
ir matA_ykgL+
p35-(22)-p10 311032 Gap 2.3 bits
p35-p10 311032 total 8.1 bits
*311100 *311110 *311120 *311130 *311140 *311150 *311160 *311170
5' t t c g g t a a g c c c c c a a g a g c c a g a t t a a g t g a a g t t a a a c g a a g g c t g c c a g c t g t c a c a g g a a c g a t g g c c t t t t t g t c a 3'
fMet ala phe leu ser
ser val ser pro gln glu pro asp fMet lys leu asn glu gly cys gln leu ser gln glu arg trp pro phe cys gln
*311180 *311190 *311200 *311210 *311220 *311230 *311240 *311250
5' g g g c a c t g c a t t c a g t t a t c t g t g c g c g t t a c t c t a a c t g g c a c t c g a a c g t c g g c g a c g g g g t t a c c g g t g g a t c a g a c t 3'
gly his cys ile gln leu ser val arg val thr leu thr gly thr arg thr ser ala thr gly leu pro val asp gln thr
gly thr ala phe ser tyr leu cys ala leu leu
... p35
*311260 *311270 *311280 *311290 *311300 *311310 *311320 *311330 *311340
5' g t t c c t g t g g c g t a a a c g t t t t t a t g t t a g t a c c a a c a g a t t t a c c a c a t t t a t c a t c t t a a a c a g t t t g a g t g a a a a t g c a 3'
val pro val ala fMet ser glu asn ala
fMet leu val pro thr asp leu pro his leu ser ser fMet lys met gln
p35 1.1 bits
p10 4.6 bits
p35 3.3 bits
[--------- ... NC_000913.ykgL
{-----------} p35-(23)-p10 311283 Gap 1.4 bits
p10 3.6 bits
|-----------| p35-p10 311283 total 4.2 bits
{-----------} p35-(23)-p10 311333 Gap 1.4 bits
|-----------| p35-p10 311333 total 5.4 bits
* *311350 *
5' g g c t g c g c c g c a a a g 3'
gly cys ala ala lys
ala ala pro gln
... NC_000913.ykgL