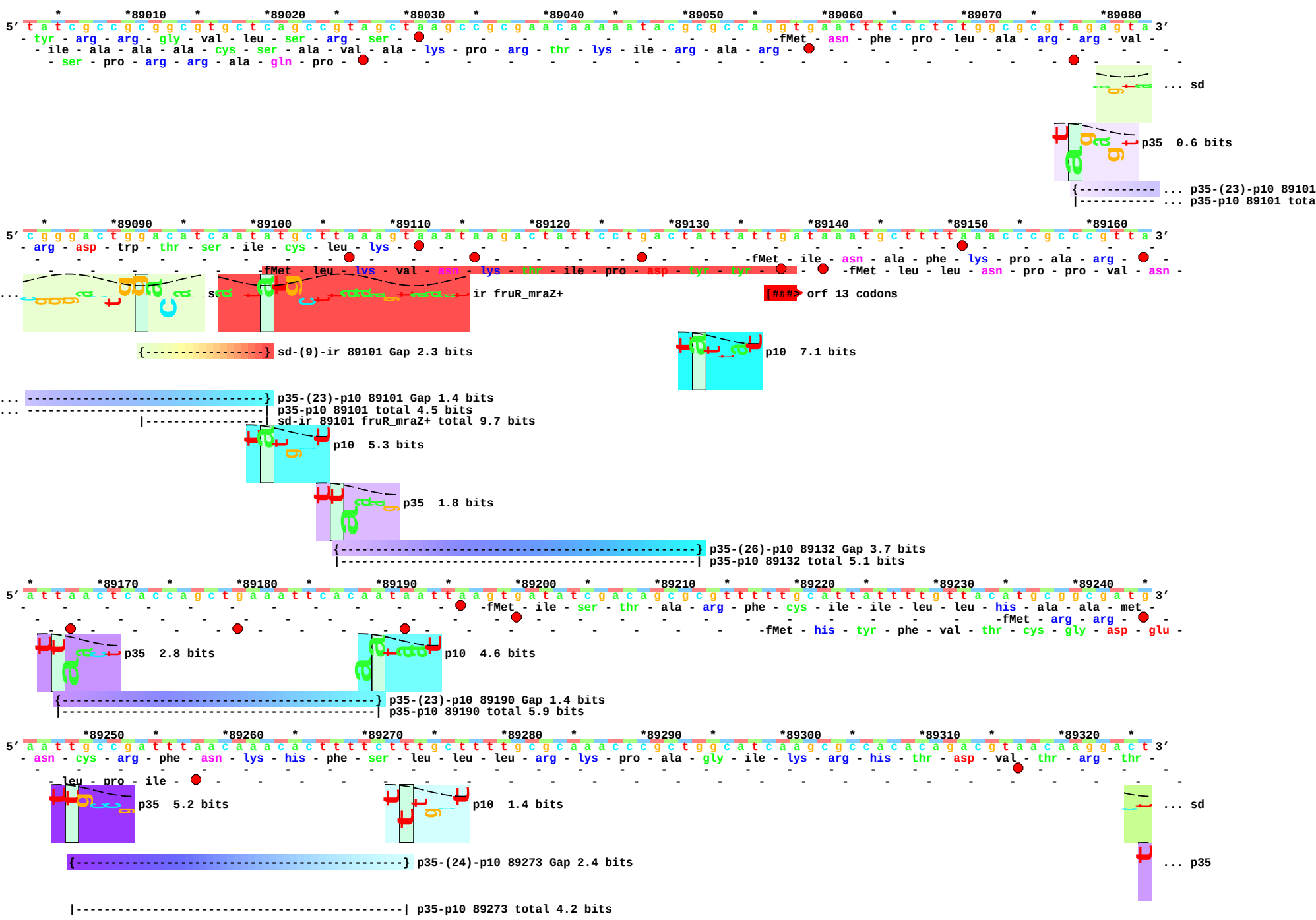
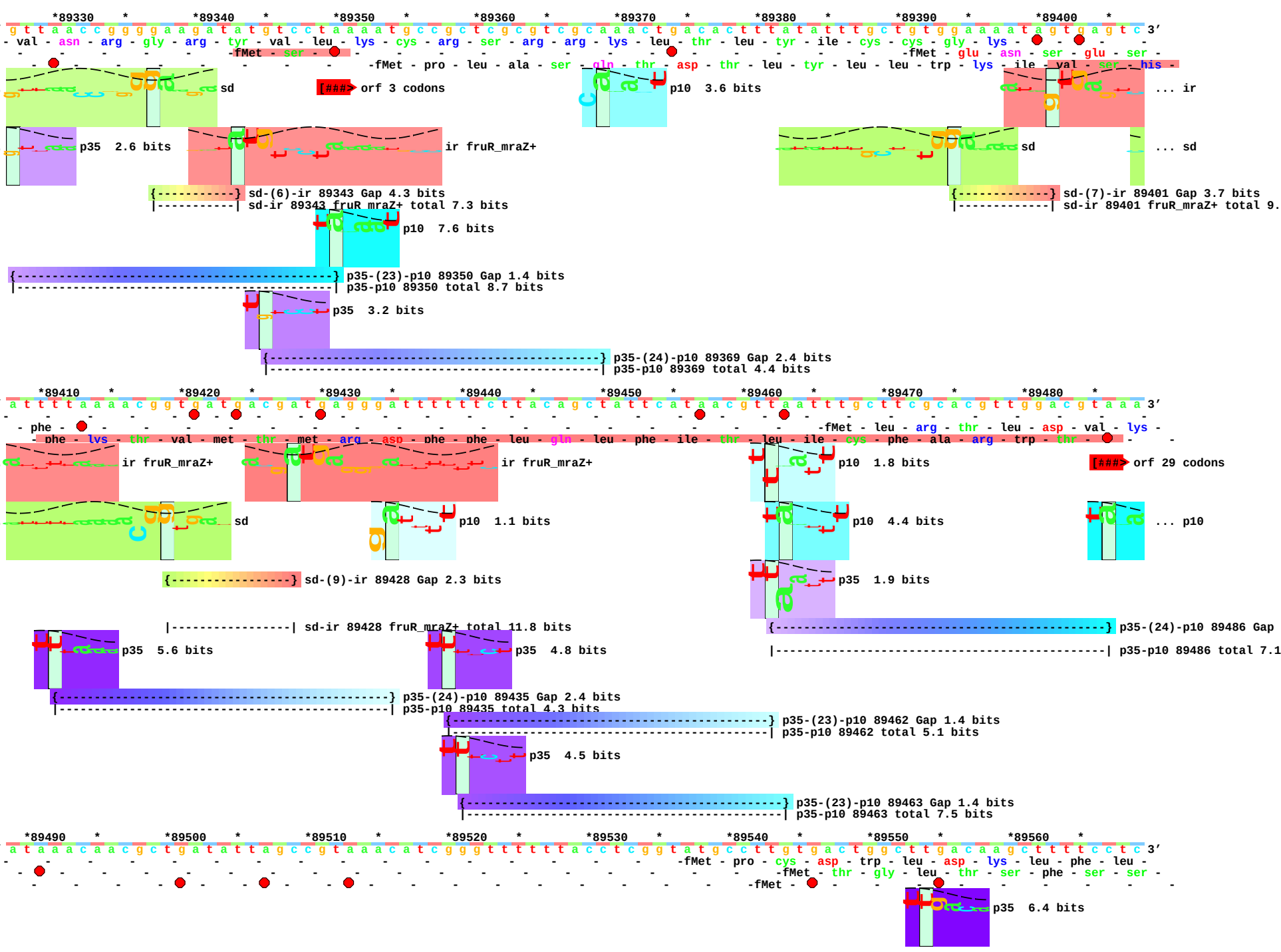
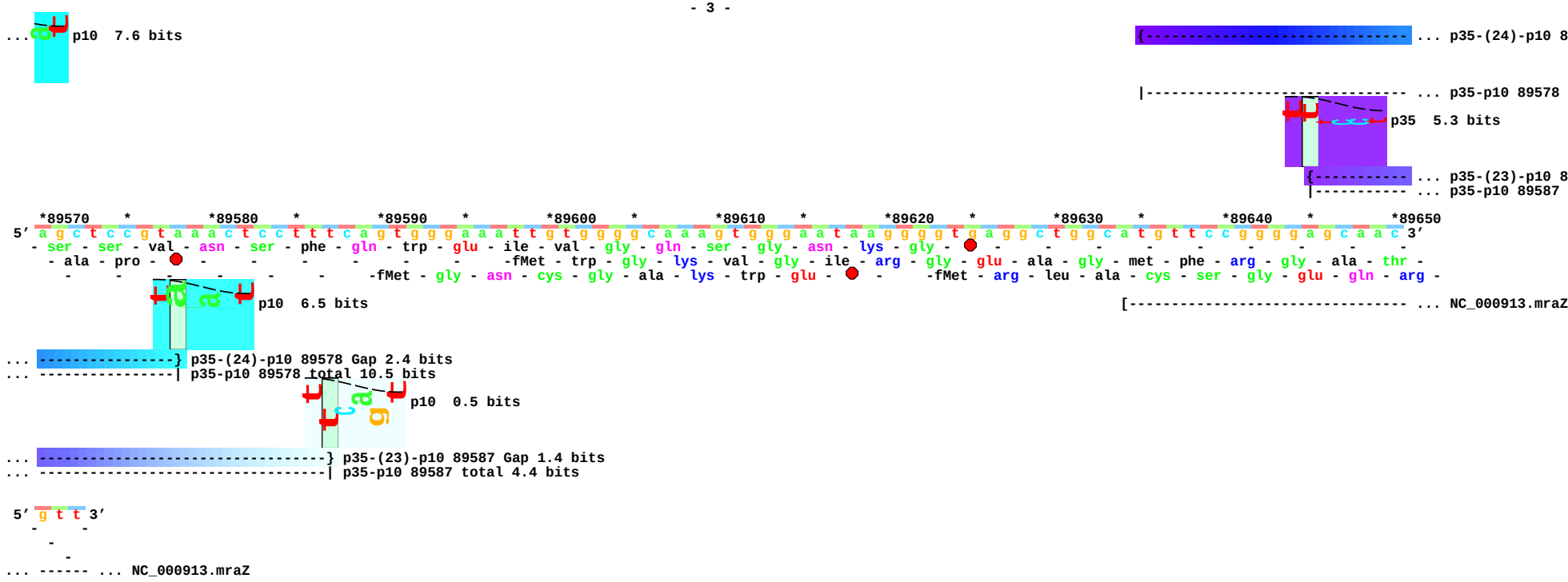
piece 1, NC_000913, fruR_mraZ+, config: linear, direction: +, begin: 89003, end: 89653




*89330 *89340 *89350 *89360 *89370 *89380 *89390 *89400
5′ g t t a a c c g g g g a a g a t a t g t c c t a a a a t g c c g c t c g c g t c g c a a a c t g a c a c t t t a t a t t t g c t g t g g a a a a t a g t g a g t c 3′
- val - asn - arg - gly - arg - tyr - val - leu - lys - cys - arg - ser - arg - arg - lys - leu - thr - leu - tyr - ile - cys - cys - gly - lys -
-fMet - ser -
-fMet - pro - leu - ala - ser - gln - thr - asp - thr - leu - tyr - leu - leu - trp - lys - ile - val - ser - his -
-fMet - glu - asn - ser - glu - ser -
... sd
[###> orf 3 codons
p10 3.6 bits
... ir
... p35 2.6 bits
ir fruR_mraZ+
sd
... sd
{----------} sd-(6)-ir 89343 Gap 4.3 bits
|----------| sd-ir 89343 fruR_mraZ+ total 7.3 bits
{----------} sd-(7)-ir 89401 Gap 3.7 bits
|----------| sd-ir 89401 fruR_mraZ+ total 9.
p10 7.6 bits
{----------} p35-(23)-p10 89350 Gap 1.4 bits
|----------| p35-p10 89350 total 8.7 bits
p35 3.2 bits
{----------} p35-(24)-p10 89369 Gap 2.4 bits
|----------| p35-p10 89369 total 4.4 bits
*89410 *89420 *89430 *89440 *89450 *89460 *89470 *89480
5′ a t t t t a a a a c g g t g a t g a c g a t g a g g g a t t t t t t c t t a c a g c t a t t c a t a a c g t t a a t t t g c t t c g c a c g t t g g a c g t a a a 3′
- phe -
- phe - lys - thr - val - met - thr - met - arg - asp - phe - phe - leu - gln - leu - phe - ile - thr - leu - ile - cys - phe - ala - arg - trp - thr -
-fMet - leu - arg - thr - leu - asp - val - lys -
... ir fruR_mraZ+
ir fruR_mraZ+
p10 1.8 bits
[###> orf 29 codons
... sd
p10 1.1 bits
p10 4.4 bits
... p10
{----------} sd-(9)-ir 89428 Gap 2.3 bits
p35 1.9 bits
|----------| sd-ir 89428 fruR_mraZ+ total 11.8 bits
{----------} p35-(24)-p10 89486 Gap
p35 5.6 bits
p35 4.8 bits
|----------| p35-p10 89486 total 7.1
{----------} p35-(24)-p10 89435 Gap 2.4 bits
|----------| p35-p10 89435 total 4.3 bits
{----------} p35-(23)-p10 89462 Gap 1.4 bits
|----------| p35-p10 89462 total 5.1 bits
p35 4.5 bits
{----------} p35-(23)-p10 89463 Gap 1.4 bits
|----------| p35-p10 89463 total 7.5 bits
*89490 *89500 *89510 *89520 *89530 *89540 *89550 *89560
5′ a t a a a c a a c g c t g a t a t t a g c c g t a a a c a t c g g g t t t t t t a c c t c g g t a t g c c t t g t g a c t g g c t t g a c a a g c t t t t c c t c 3′
-fMet - pro - cys - asp - trp - leu - asp - lys - leu - phe - leu -
-fMet - thr - gly - leu - thr - ser - phe - ser - ser -
-fMet -
p35 6.4 bits


... p10 7.6 bits
{ ... p35-(24)-p10 8
| ... p35-p10 89578
p35 5.3 bits
{ ... p35-(23)-p10 8
| ... p35-p10 89587
*89570 * *89580 * *89590 * *89600 * *89610 * *89620 * *89630 * *89640 * *89650
5' a g c t c c g t a a a c t c c t t t c a g t g g g a a a t t g t g g g g c a a a g t g g g a a t a a g g g g t g a g g c t g g c a t g t t c c g g g g g a g c a a c 3'
- ser - ser - val - asn - ser - phe - gln - trp - glu - ile - val - gly - gln - ser - gly - asn - lys - gly - - - - - - - - - -
- ala - pro - - - - - - - - -fMet - trp - gly - lys - val - gly - ile - arg - gly - glu - ala - gly - met - phe - arg - gly - ala - thr -
- - - - - - - -fMet - gly - asn - cys - gly - ala - lys - trp - glu - - -fMet - arg - leu - ala - cys - ser - gly - glu - gln - arg -
p10 6.5 bits
[... NC_000913.mraZ
... } p35-(24)-p10 89578 Gap 2.4 bits
... | p35-p10 89578 total 10.5 bits
p10 0.5 bits
... } p35-(23)-p10 89587 Gap 1.4 bits
... | p35-p10 89587 total 4.4 bits
5' g t t 3'
... ... NC_000913.mraZ