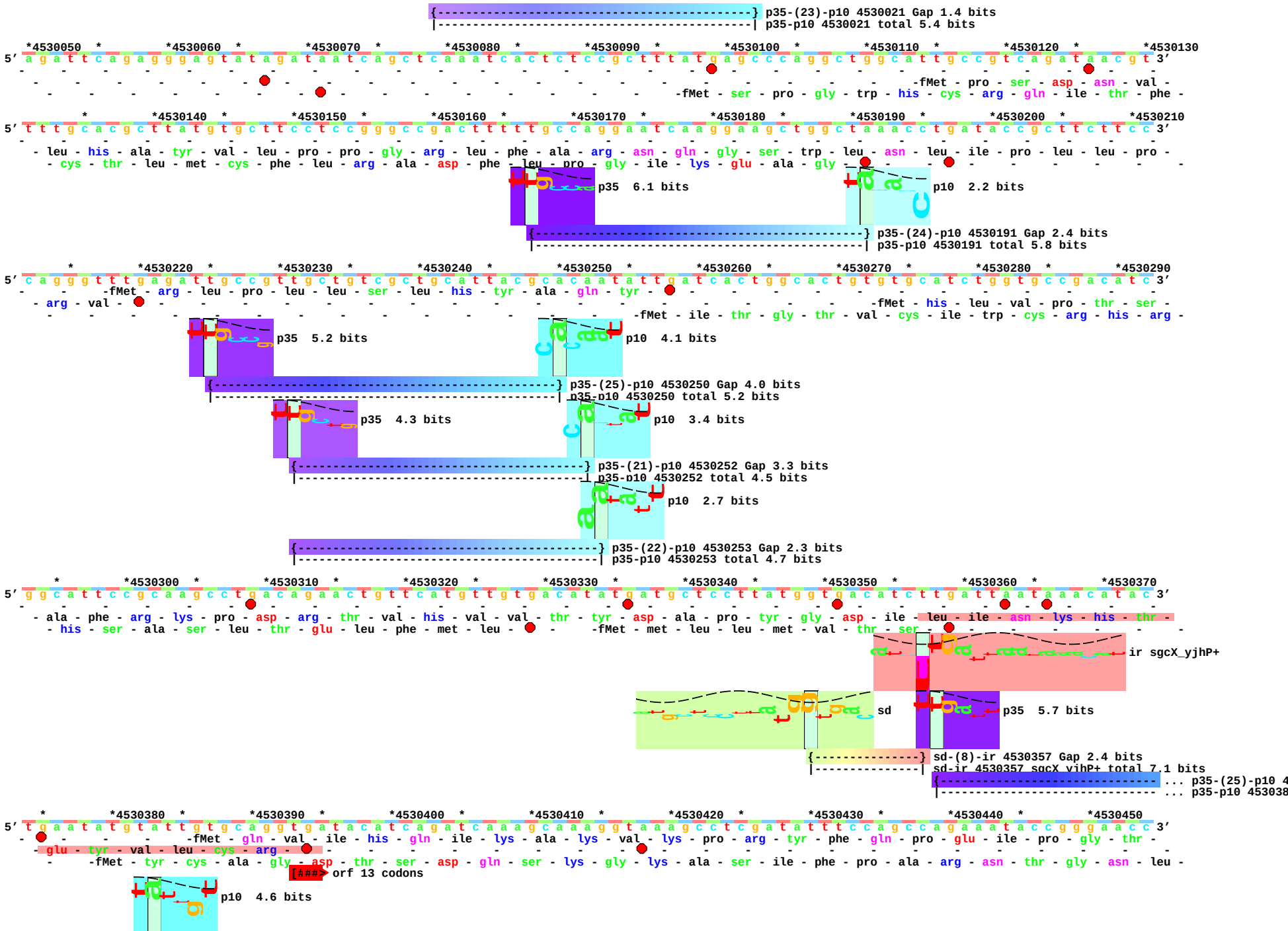
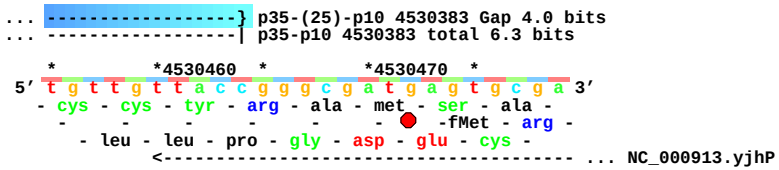
piece 1, NC_000913, sgcX_yjhP+, config: linear, direction: +, begin: 4529645, end: 4530479
*4529650 *4529660 *4529670 *4529680 *4529690 *4529700 *4529710 *4529720
5′ g a a c a g g g t t t c c t g c a c a g a a a a t g a c a t a g c t a t c t c c g t a g a c c g t a a a a c a a t c a c t c g t t g a g c g t t t t a t a g c g 3′
- glu - gln - gly - phe - leu - his - arg - lys -
- asn - arg - val - ser - cys - thr - glu - asn - asp - ile - ala - ile - ser - val - asp - arg - lys - thr - ile - thr - arg -
- thr - gly - phe - pro - ala - gln - lys - met - thr -
-fMet - ser - val - leu -
... ----------] NC_000913.sgcX
p35 4.8 bits
{---------- ... p35-(22)-p10 45297
|---------- ... p35-p10 4529738 to
*4529730 *4529740 *4529750 *4529760 *4529770 *4529780 *4529790 *4529800
5′ c a g a c t g g t c g a a t a a t t g t g a g a a c g t t c a c g t g a a a a c g c g c a a a g c t g a a c a a a t a a a a a a t t a t g t g a g c c g a g t g g 3′
-fMet - arg - thr - phe - thr -
-fMet -
-fMet - lys - thr - arg - lys - ala - glu - gln - ile - lys - asn - tyr - val - ser - arg - val - glu -
-fMet -
p10 4.6 bits
... ----------} p35-(22)-p10 4529738 Gap 2.3 bits
... ----------| p35-p10 4529738 total 7.0 bits
*4529810 *4529820 *4529830 *4529840 *4529850 *4529860 *4529870 *4529880
5′ a a t a a a a g c g c t c a a c g t t t g t g a a a g t t a c g g g c t g g a g a g a c c a g t g a t t a t g g t t g a a a t a a t g a g g a t g a a t a a a a c 3′
-fMet -
-fMet - ile - met - val - glu - ile - met - arg - met - asn - lys - thr -
-fMet - lys - val - thr - gly - trp - arg - asp - gln -
-fMet - lys -
ir sgcX_yjhP+
sd
ir sgcX_yjhP+
{----------} sd-(9)-ir 4529853 Gap 2.3 bits
|----------| sd-ir 4529853 sgcX_yjhP+ total 5.9 bits
{----------} sd-(15)-ir 4529859 Gap 6.0 bits
|----------| sd-ir 4529859 sgcX_yjhP+ total 7.9 bits
ir sgcX_yjhP+
sd
{----------} sd-(9)-ir 4529871 Gap 2.3 bits
|----------| sd-ir 4529871 sgcX_yjhP+ total 10.0 bits
*4529890 *4529900 *4529910 *4529920 *4529930 *4529940 *4529950 *4529960
5′ g c g g t a a c t g t t a t a g c a c c a c t t t g t t g c a g g a c g c t c c c t c t t c a t t a c g t c c t g c a c g t g g a t a c c c c a g c a t c t c c a 3′
-fMet - asp - thr - pro - ala - ser - pro -
-arg -
-fMet - leu - gln - asp - ala - pro - ser - ser - leu - arg - pro - ala - arg - gly - tyr - pro - ser - ile - ser - ile -
[###> orf 14 codons
*4529970 *4529980 *4529990 *4530000 *4530010 *4530020 *4530030 *4530040
5′ t c a g c g g a t c t t a g a a t g t a a t g g c g c g t g g c a g g t c g t t g g t t c c c a g c a t a a t g t a a g a a a a c a t c g g a t c t c c t g a a t 3′
- ser - ala - asp - leu - arg - met -
-fMet - ala - gly - arg - trp - phe - pro - ala -
- ser - gly - ser -
-fMet - ala - arg - gly - arg - ser - leu - val - pro - ser - ile - met -
p35 3.1 bits
p10 5.5 bits
{----------} p35-(21)-p10 4530019 Gap 3.3 bits
|----------| p35-p10 4530019 total 5.3 bits
p10 3.8 bits


p35-(23)-p10 4530021 Gap 1.4 bits
p35-p10 4530021 total 5.4 bits
*4530050 *4530060 *4530070 *4530080 *4530090 *4530100 *4530110 *4530120 *4530130
5' agattcagagggagtatagataatcagctcaaatcactctccgctttatgagcccaggctggcattgccgtcagataacgt 3'
-fMet - pro - ser - asp - asn - val -
-fMet - ser - pro - gly - trp - his - cys - arg - gln - ile - thr - phe -
*4530140 *4530150 *4530160 *4530170 *4530180 *4530190 *4530200 *4530210
5' tttgcacgctttatgtgcttcctccgggccgacttttgccaggaatcaaggaagctggctaaacctgataccgcttcttcc 3'
- leu - his - ala - tyr - val - leu - pro - pro - gly - arg - leu - phe - ala - arg - asn - gln - gly - ser - trp - leu - asn - leu - ile - pro - leu - leu - pro -
- cys - thr - leu - met - cys - phe - leu - arg - ala - asp - phe - leu - pro - gly - ile - lys - glu - ala - gly -
p35 6.1 bits
p10 2.2 bits
p35-(24)-p10 4530191 Gap 2.4 bits
p35-p10 4530191 total 5.8 bits
*4530220 *4530230 *4530240 *4530250 *4530260 *4530270 *4530280 *4530290
5' caggttttgagattgccgttgctgtcgctgcattacgcacaatattgatcactggcactgtgtgcatctggtgccgacatc 3'
-fMet - arg - leu - pro - leu - leu - ser - leu - his - tyr - ala - gln - tyr -
- arg - val -
-fMet - his - leu - val - pro - thr - ser -
-fMet - ile - thr - gly - thr - val - cys - ile - trp - cys - arg - his - arg -
p35 5.2 bits
p10 4.1 bits
p35-(25)-p10 4530250 Gap 4.0 bits
p35-p10 4530250 total 5.2 bits
p35 4.3 bits
p10 3.4 bits
p35-(21)-p10 4530252 Gap 3.3 bits
p35-p10 4530252 total 4.5 bits
p10 2.7 bits
p35-(22)-p10 4530253 Gap 2.3 bits
p35-p10 4530253 total 4.7 bits
*4530300 *4530310 *4530320 *4530330 *4530340 *4530350 *4530360 *4530370
5' ggcattccgcaagcctgacagaactgttcatgttgtgacatatgatgctccttatggtgacatcttgattaataaacatac 3'
- ala - phe - arg - lys - pro - asp - arg - thr - val - his - val - val - thr - tyr - asp - ala - pro - tyr - gly - asp - ile - leu - ile - asn - lys - his - thr -
- his - ser - ala - ser - leu - thr - glu - leu - phe - met - leu -
-fMet - met - leu - leu - met - val - thr - ser -
ir sgcX_yjhP+
sd
p35 5.7 bits
sd-(8)-ir 4530357 Gap 2.4 bits
sd-ir 4530357 sgcX_yjhP+ total 7.1 bits
... p35-(25)-p10 4
... p35-p10 453038
*4530380 *4530390 *4530400 *4530410 *4530420 *4530430 *4530440 *4530450
5' tgaatatgtattgtgcaggtgatacatcagatcaaagcaaaggtaaagcctcgatatttccagccagaaataccgggaaccc 3'
-fMet - gln - val - ile - his - gln - ile - lys - ala - lys - val - lys - pro - arg - tyr - phe - gln - pro - glu - ile - pro - gly - thr -
- glu - tyr - val - leu - cys - arg -
-fMet - tyr - cys - ala - gly - asp - thr - ser - asp - gln - ser - lys - gly - lys - ala - ser - ile - phe - pro - ala - arg - asn - thr - gly - asn - leu -
[####> orf 13 codons
p10 4.6 bits


... ----------} p35-(25)-p10 4530383 Gap 4.0 bits
... ----------| p35-p10 4530383 total 6.3 bits
* *4530460 * *4530470 *
5’ t g t t g t t a c c g g g c g a t g a g t g c g a 3’
- cys - cys - tyr - arg - ala - met - ser - ala -
- - - - - - -fMet - arg -
- leu - leu - pro - gly - asp - glu - cys -
<---------- ... NC_000913.yjhP