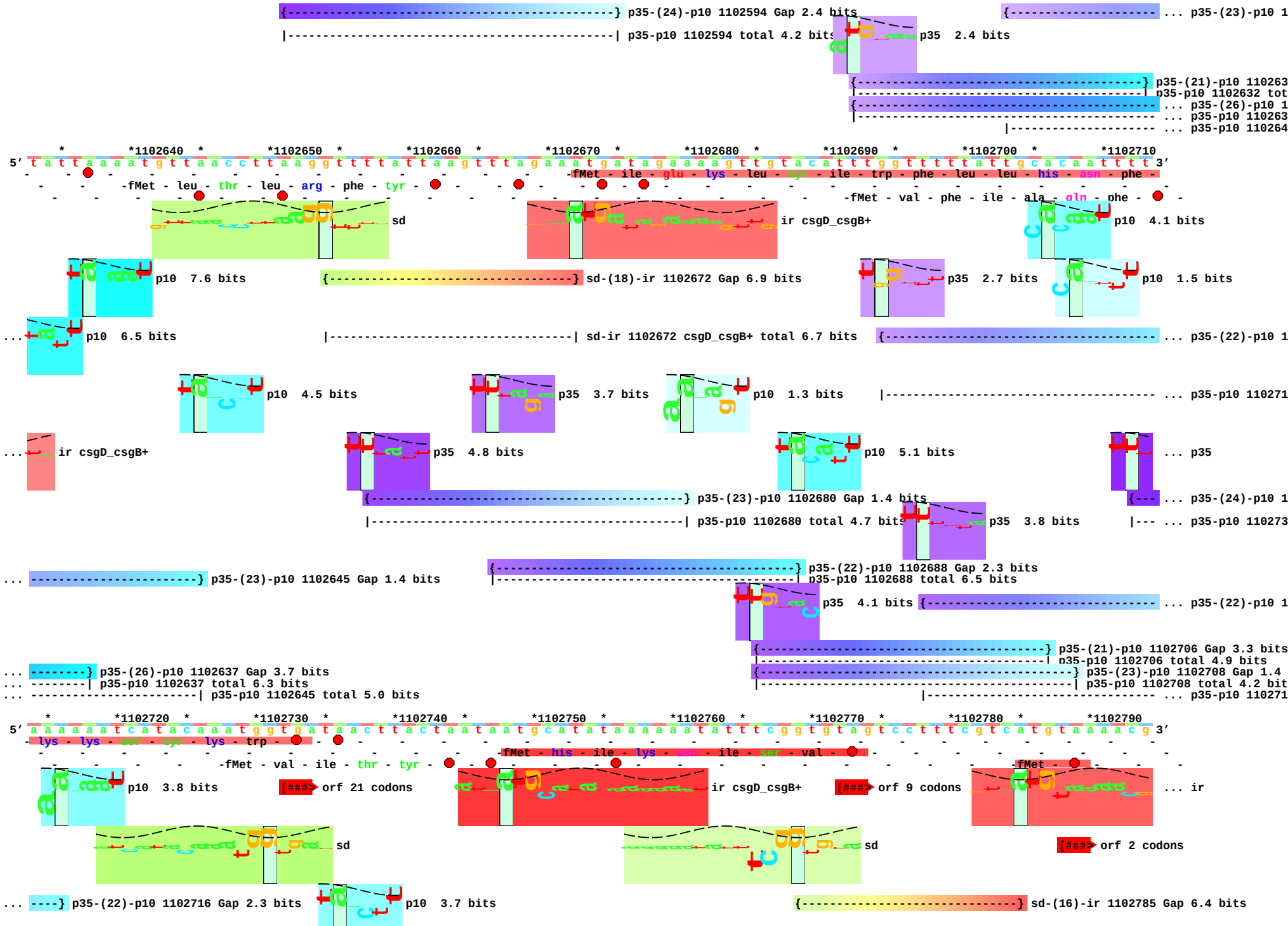
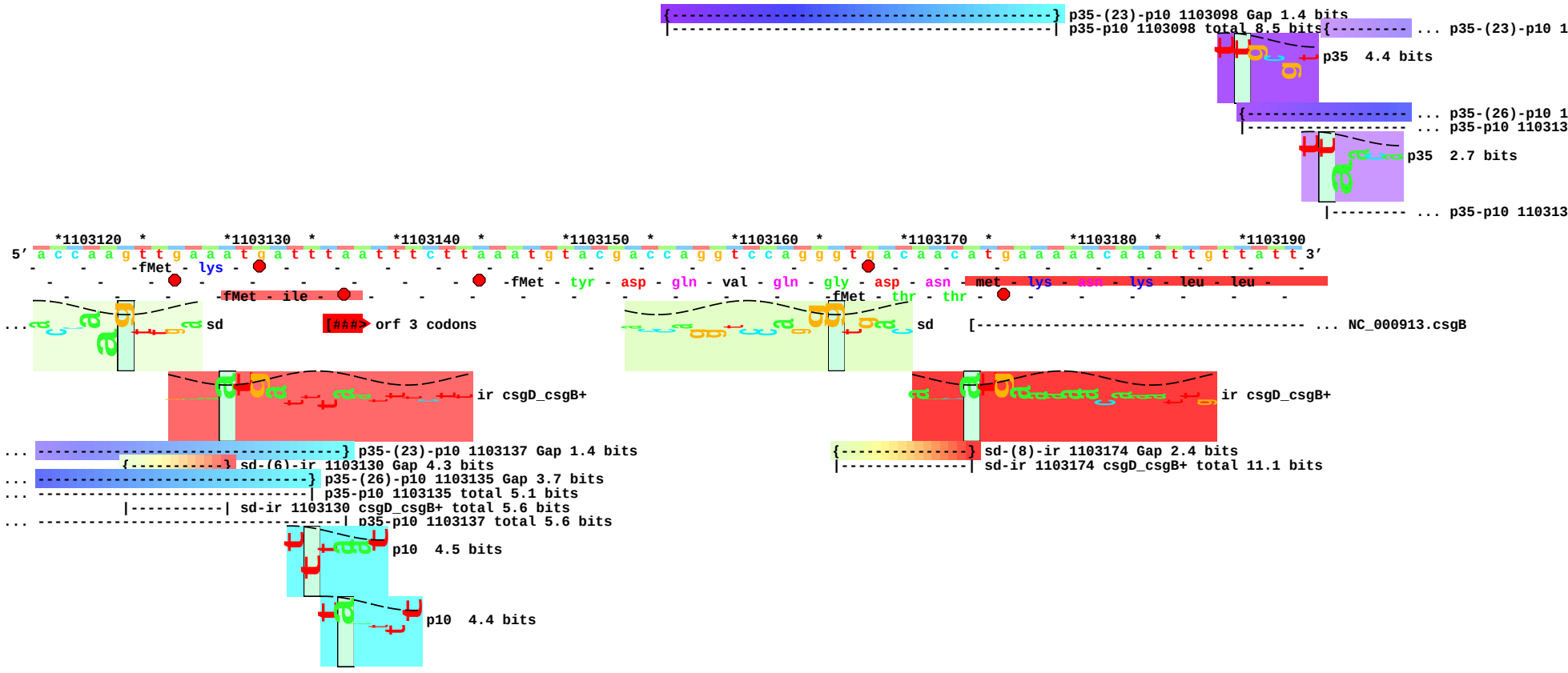
piece 1, NC_000913, csgD_csgB+, config: linear, direction: +, begin: 1102390, end: 1103193


p35-(24)-p10 1102594 Gap 2.4 bits
p35-p10 1102594 total 4.2 bits
p35 2.4 bits
p35-(23)-p10 1
p35-(21)-p10 110263
p35-p10 1102632 tot
p35-(26)-p10 1
p35-p10 110263
p35-p10 110264
5′ t a t t a a a a t g t t a a c c t t a a g g t t t t a t t a a g t t t a g a a a t g a t a g a a a a g t t g t a c a t t t g g t t t t t a t t g c a c a a t t t t 3′
-fMet - ile - glu - lys - leu - tyr - ile - trp - phe - leu - leu - his - asn - phe -
-fMet - leu - thr - leu - arg - phe - tyr -
-fMet - val - phe - ile - ala - gln - phe -
sd
ir csgD_csgB+
p10 4.1 bits
p10 7.6 bits
sd-(18)-ir 1102672 Gap 6.9 bits
p35 2.7 bits
p10 1.5 bits
p10 6.5 bits
sd-ir 1102672 csgD_csgB+ total 6.7 bits
p35-(22)-p10 1
p10 4.5 bits
p35 3.7 bits
p10 1.3 bits
p35-p10 110271
ir csgD_csgB+
p35 4.8 bits
p10 5.1 bits
p35
p35-(23)-p10 1102680 Gap 1.4 bits
p35-p10 1102680 total 4.7 bits
p35 3.8 bits
p35-p10 110273
p35-(24)-p10 1
p35-(22)-p10 1102688 Gap 2.3 bits
p35-p10 1102688 total 6.5 bits
p35-(23)-p10 1102645 Gap 1.4 bits
p35 4.1 bits
p35-(22)-p10 1
p35-(21)-p10 1102706 Gap 3.3 bits
p35-p10 1102706 total 4.9 bits
p35-(26)-p10 1102637 Gap 3.7 bits
p35-(23)-p10 1102708 Gap 1.4
p35-p10 1102637 total 6.3 bits
p35-p10 1102708 total 4.2 bit
p35-p10 1102645 total 5.0 bits
p35-p10 110271
5′ a a a a a a t c a t a c a a a t g g t g a t a a c t t a c t a a t a a t g c a t a t a a a a a a t a t t t c g g t g t a g t c c t t t c g t c a t g t a a a a c g 3′
- lys - lys - ser - tyr - lys - trp -
-fMet - his - ile - lys - asn - ile - ser - val -
-fMet - val - ile - thr - tyr -
-fMet -
p10 3.8 bits
[###> orf 21 codons
ir csgD_csgB+
[###> orf 9 codons
... ir
sd
sd
[###> orf 2 codons
p35-(22)-p10 1102716 Gap 2.3 bits
p10 3.7 bits
sd-(16)-ir 1102785 Gap 6.4 bits

... ----| p35-p10 1102716 total 4.2 bits
|------------------------------| sd-ir 1102785 csgD_csgB+ total 6.4 bi
... p35 5.6 bits
{------------------------------} sd-(17)-ir 1102748 Gap 6.5 bits
... --} p35-(24)-p10 1102736 Gap 2.4 bits
... --| p35-p10 1102736 total 6.8 bits
p10 2.6 bits |------------------------------| sd-ir 1102748 csgD_csgB+ total 11.2 bits
... ----------} p35-(22)-p10 1102719 Gap 2.3 bits
... ----------| p35-p10 1102719 total 4.0 bits
*1102800 *1102810 *1102820 *1102830 *1102840 *1102850 *1102860 *1102870
5′ t t c t t g t t t t t t c t c c a c a c c t c c g t g g a c a a t t t t t a c t g c a a a a a g a c g a g g t t t g t c a c g g c t t g t g c g c a a g a c a t 3′
- fMet - phe - phe - leu - his - thr - ser - val - asp - asn - phe - leu - leu - gln - lys - asp - glu - val - cys - his - gly - leu - cys - ala - arg - his -
- fMet - ser - arg - leu - val - arg - lys - thr - tyr -
... ir csgD_csgB+
p10 2.9 bits
p35 4.8 bits
p10 1.5 bits
{--} p35-(24)-p10 1102823 Gap 2.4 bits
|--| p35-p10 1102823 total 5.3 bits
p35 3.9 bits
{--} p35-(23)-p10 1102825 Gap 1.4 bits
|--| p35-p10 1102825 total 4.0 bits
*1102880 *1102890 *1102900 *1102910 *1102920 *1102930 *1102940 *1102950
5′ a t c g c a g c a a t c a g c g a c g g g c a a g a a g a a t g a c t g t c t g g t g c t t t t t g a t a g c g g a a a a c g g a g a t t t a a a a g a a a a c a 3′
- ile - ala - ala - ile - ser - asp - gly - gln - glu - glu -
- fMet - leu - phe - asp - ser - gly - lys - arg - arg - phe - lys - arg - lys - gln -
- arg - ser - asn - gln - arg - arg - ala - arg - arg - met - thr - val - trp - cys - phe - leu - ile - ala - glu - asn - gly - asp - leu - lys - glu - asn - lys -
p35 5.6 bits
p10 2.5 bits
{--} p35-(22)-p10 1102946 Gap 2.3 bits
|--| p35-p10 1102946 total 5.8 bits
*1102960 *1102970 *1102980 *1102990 *1103000 *1103010 *1103020 *1103030
5′ a a a t a t t t t t t t g c g t a g a t a a c a g c g t a t t t a c g t g g g t t t t a a t a c t t t g g t a t g a a c t a a a a a a a g a a a a a a t a c a a c g c 3′
- asn - ile - phe - leu - arg - arg -
- fMet - asn -
- fMet - gly - phe - asn - thr - leu - val -
- ile - phe - phe - cys - val - asp - asn - ser - val - phe - thr - trp - val - leu - ile - leu - trp - tyr - glu - leu - lys - lys - lys - asn - thr - thr - arg -
p35 3.5 bits
p10 2.7 bits
{--} p35-(23)-p10 1103031 Gap 1.4 bi
|--| p35-p10 1103031 total 4.8 bits
*1103040 *1103050 *1103060 *1103070 *1103080 *1103090 *1103100 *1103110
5′ g c g g g t g a g t t a t t a a a a a t a t t t c c g c a g a c a t a c t t t c c a t c g t a a c g c a g c g t t a a c a a a a t a c a g g t t g c g t t a a c a 3′
- fMet - ser - tyr -
- fMet - arg -
- gly -
p35 5.2 bits
p10 4.7 bits
... sd


{---} p35-(23)-p10 1103098 Gap 1.4 bits
|---| p35-p10 1103098 total 8.5 bits
{--------- ... p35-(23)-p10 1
p35 4.4 bits
{------------------- ... p35-(26)-p10 1
|------------------- ... p35-p10 110313
p35 2.7 bits
|--------- ... p35-p10 110313
*1103120 * *1103130 * *1103140 * *1103150 * *1103160 * *1103170 * *1103180 * *1103190
5' a c c a a g t t g a a a t g a t t t a a t t t c t t a a a t g t a c g a c c a g g t c c a g g g t g a c a a c a t g a a a a a c a a a t t g t t a t t 3'
-fMet - lys -
-fMet - tyr - asp - gln - val - gln - gly - asp - asn - met - lys - asn - lys - leu - leu -
-fMet - ile -
-fMet - thr - thr -
... sd [####> orf 3 codons
sd [---------- ... NC_000913.csgB
ir csgD_csgB+
ir csgD_csgB+
... ---------------------------------} p35-(23)-p10 1103137 Gap 1.4 bits
{----------} sd-(6)-ir 1103130 Gap 4.3 bits
... ---------------------------------} p35-(26)-p10 1103135 Gap 3.7 bits
... ---------------------------------| p35-p10 1103135 total 5.1 bits
|----------| sd-ir 1103130 csgD_csgB+ total 5.6 bits
... ---------------------------------| p35-p10 1103137 total 5.6 bits
p10 4.5 bits
p10 4.4 bits
{---------------} sd-(8)-ir 1103174 Gap 2.4 bits
|---------------| sd-ir 1103174 csgD_csgB+ total 11.1 bits