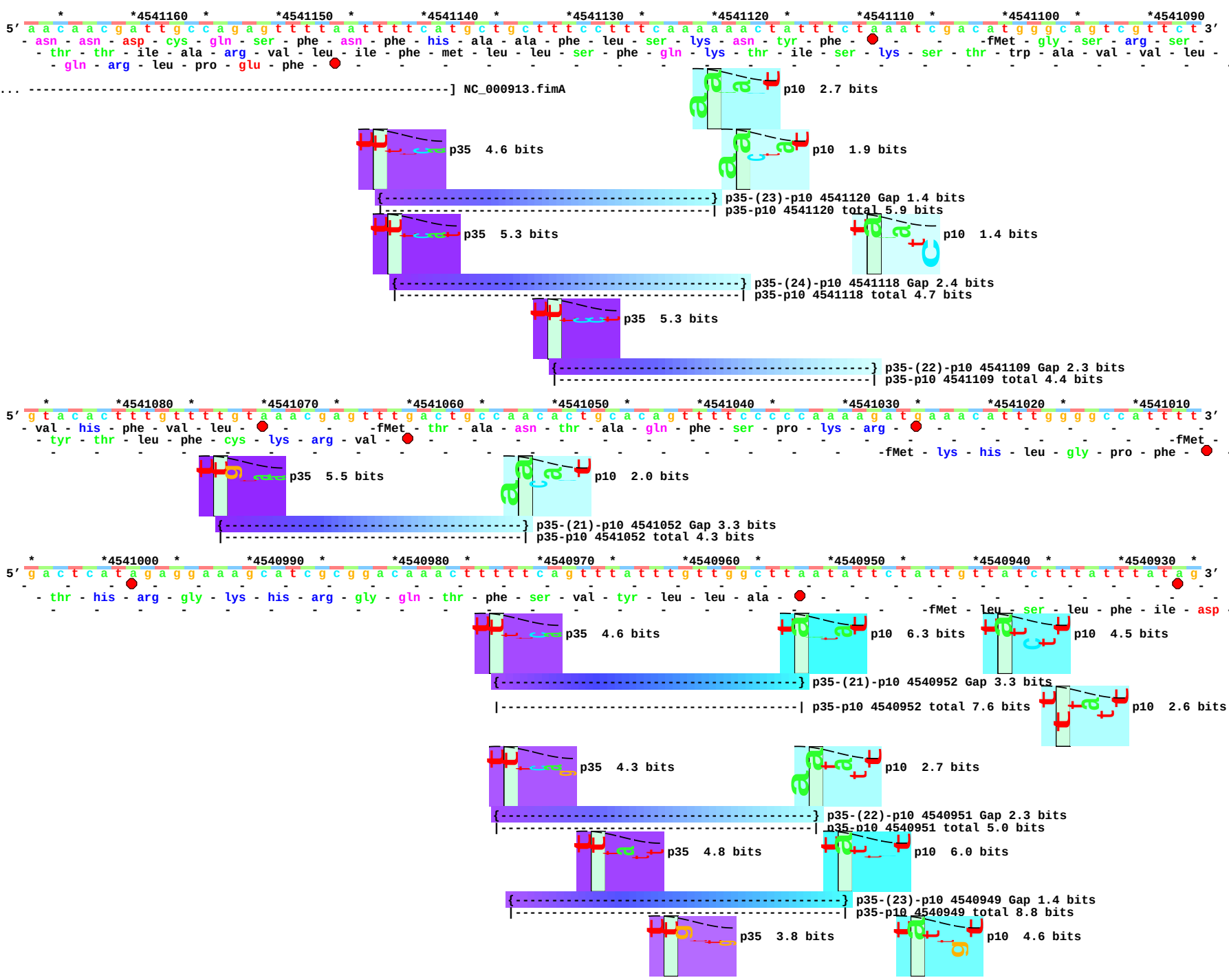
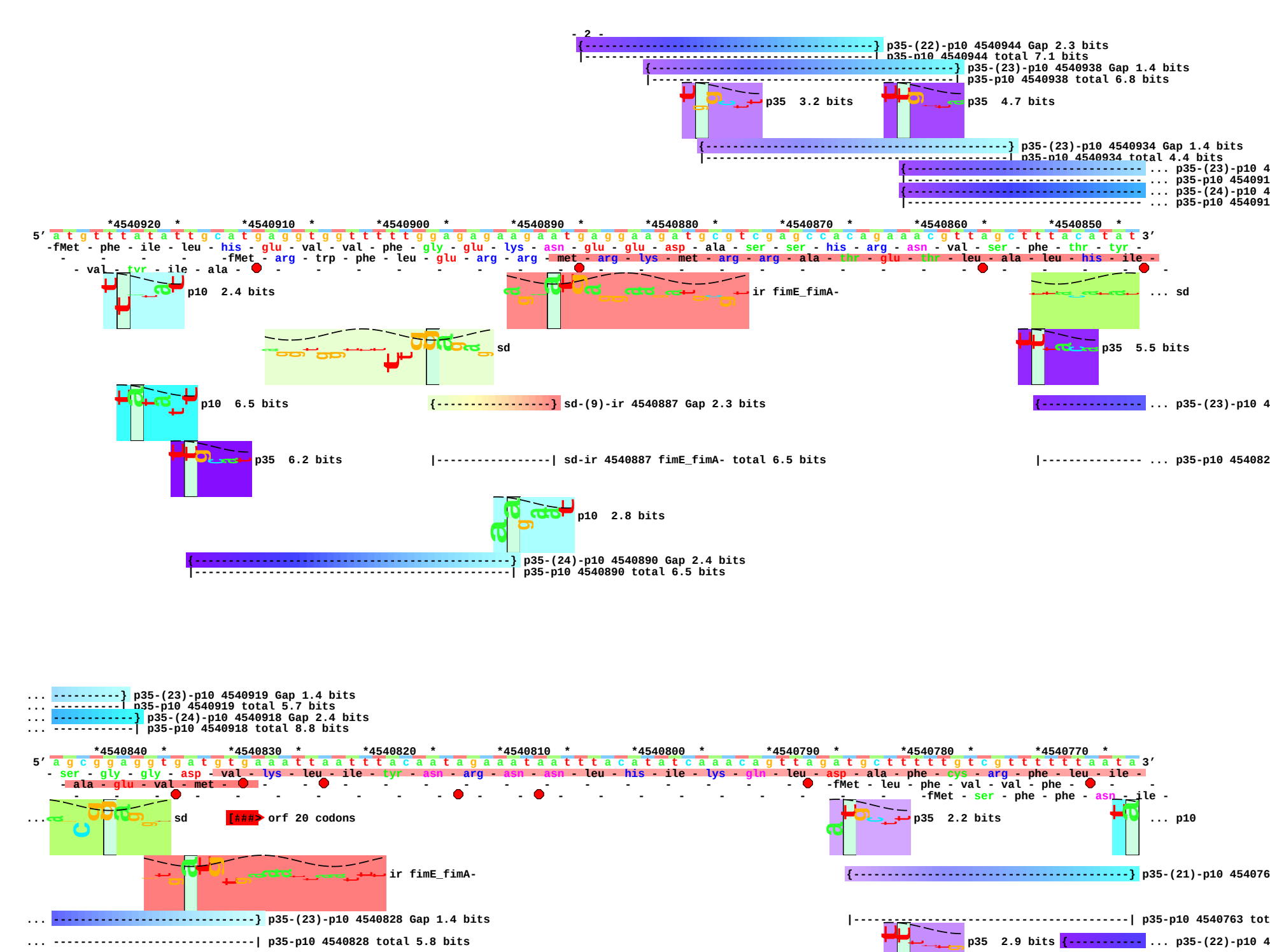
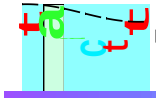
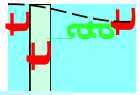
piece 1, NC_000913, fimE_fimA-, config: linear, direction: -, begin: 4541167, end: 4540637


*4541160 *4541150 *4541140 *4541130 *4541120 *4541110 *4541100 *4541090
5' a a c a a c g a t t g c c a g a g t t t t a a t t t t c a t g c t g c t t t c c t t t c a a a a a a c t a t t t c t a a a t c g a c a t g g g c a g t c g t t c t 3'
- asn - asn - asp - cys - gln - ser - phe - asn - phe - his - ala - ala - phe - leu - ser - lys - asn - tyr - phe - * - - -fMet - gly - ser - arg - ser -
- thr - thr - ile - ala - arg - val - leu - ile - phe - met - leu - leu - ser - phe - gln - lys - thr - ile - ser - lys - ser - thr - trp - ala - val - val - leu -
- gln - arg - leu - pro - glu - phe - * -
... ----------] NC_000913.fimA
p10 2.7 bits
p35 4.6 bits
p10 1.9 bits
{----------} p35-(23)-p10 4541120 Gap 1.4 bits
|----------| p35-p10 4541120 total 5.9 bits
p35 5.3 bits
p10 1.4 bits
{----------} p35-(24)-p10 4541118 Gap 2.4 bits
|----------| p35-p10 4541118 total 4.7 bits
p35 5.3 bits
{----------} p35-(22)-p10 4541109 Gap 2.3 bits
|----------| p35-p10 4541109 total 4.4 bits
*4541080 *4541070 *4541060 *4541050 *4541040 *4541030 *4541020 *4541010
5' g t a c a c t t t g t t t t g t a a a c g a g t t t g a c t g c c a a c a c t g c a c a g t t t t c c c c c a a a a g a t g a a a c a t t t g g g c c a t t t t 3'
- val - his - phe - val - leu - * - - -fMet - thr - ala - asn - thr - ala - gln - phe - ser - pro - lys - arg - * - - - - - - - - -fMet -
- tyr - thr - leu - phe - cys - lys - arg - val - * - - - - - - - - - - - - - - - - - - -


- 2 -
p35-(22)-p10 4540944 Gap 2.3 bits
p35-p10 4540944 total 7.1 bits
p35-(23)-p10 4540938 Gap 1.4 bits
p35-p10 4540938 total 6.8 bits
p35 3.2 bits
p35 4.7 bits
p35-(23)-p10 4540934 Gap 1.4 bits
p35-p10 4540934 total 4.4 bits
... p35-(23)-p10 4
... p35-p10 454091
... p35-(24)-p10 4
... p35-p10 454091
*4540920 *4540910 *4540900 *4540890 *4540880 *4540870 *4540860 *4540850 *
5' a t g t t t a t a t t g c a t g a g g t g g t t t t t g g a g a g a a g a a t g a g g a a g a t g c g t c g a g c c a c a g a a a c g t t a g c t t t a c a t a t 3'
-fMet - phe - ile - leu - his - glu - val - val - phe - gly - glu - lys - asn - glu - glu - asp - ala - ser - ser - his - arg - asn - val - ser - phe - thr - tyr -
-fMet - arg - trp - phe - leu - glu - arg - arg - met - arg - lys - met - arg - arg - ala - thr - glu - thr - leu - ala - leu - his - ile -
- val - tyr - ile - ala -
p10 2.4 bits
ir fimE_fimA-
... sd
sd
p35 5.5 bits
p10 6.5 bits
sd-(9)-ir 4540887 Gap 2.3 bits
... p35-(23)-p10 4
p35 6.2 bits
sd-ir 4540887 fimE_fimA- total 6.5 bits
... p35-p10 454082
p10 2.8 bits
p35-(24)-p10 4540890 Gap 2.4 bits
p35-p10 4540890 total 6.5 bits
... p35-(23)-p10 4540919 Gap 1.4 bits
... p35-p10 4540919 total 5.7 bits
... p35-(24)-p10 4540918 Gap 2.4 bits
... p35-p10 4540918 total 8.8 bits
*4540840 *4540830 *4540820 *4540810 *4540800 *4540790 *4540780 *4540770 *
5' a g c g g a g g t g a t g t g a a a t t a a t t t a c a a t a g a a a t a a t t t t a c a t a t c a a a c a g t t a g a t g c t t t t t g t c g t t t t t t a a t a 3'
- ser - gly - gly - asp - val - lys - leu - ile - tyr - asn - arg - asn - asn - leu - his - ile - lys - gln - leu - asp - ala - phe - cys - arg - phe - leu - ile -
- ala - glu - val - met - -fMet - leu - phe - val - val - phe -
-fMet - ser - phe - phe - asn - ile -
... sd [###> orf 20 codons
p35 2.2 bits
... p10
ir fimE_fimA-
p35-(21)-p10 454076
... p35-(23)-p10 4540828 Gap 1.4 bits
p35-p10 4540763 tot
... p35-p10 4540828 total 5.8 bits
p35 2.9 bits
... p35-(22)-p10 4

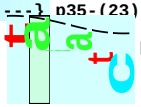
sd-(6)-ir 4540833 Gap 4.3 bits
sd-ir 4540833 fimE_fimA- total 9.9 bits
ir fimE_fimA-
sd-(8)-ir 4540831 Gap 2.4 bits
sd-ir 4540831 fimE_fimA- total 9.7 bits
p10 1.7 bits
... p35-(23)-p10 4
... p35-p10 454075
p35 5.7 bits
... p35-p10 454074
*4540760 *4540750 *4540740 *4540730 *4540720 *4540710 *4540700 *4540690 *
5' t t t t t a t g c t t g a g a a a a a a t a c g t a a c t t a t t t a t g a t a t g g a c a g t t t g g c c c c a a t t g t c t t g t a t t t a t t t g t t t t t 3'
- phe - leu - cys - leu - arg - lys - asn - thr -
-fMet - asp - ser - leu - ala - pro - ile - val - leu - tyr - leu - phe - val - phe -
-fMet - ile - trp - thr - val - trp - pro - gln - leu - ser - cys - ile - tyr - leu - phe - phe -
- phe - met - leu - glu - lys - lys - tyr - val - thr - tyr - leu -
... p10 5.2 bits
[###> orf 32 codons
p35 4.3 bits
p10 1.4 bits
... p35
p10 5.3 bits
p10 3.7 bits
p35-(23)-p10 4540698 Gap 1.4 bits
p35 4.8 bits
p10 3.8 bits
p10 6.4 bits
p35 5.6 bits
p35 4.8 bits
... p35-(22)-p10 4540746 Gap 2.3 bits
p35-p10 4540698 total 4.2 bits
... p35-(23)-p10 4
... p35-(23)-p10 4
... p35-(23)-p10 4540757 Gap 1.4 bits
... p35-p10 4540757 total 6.8 bits
... p35-p10 454068
p35-(23)-p10 4540737 Gap 1.4 bits
... p35-(24)-p10 4
... p35-p10 4540746 total 7.2 bits
... p35-p10 454067
p35-p10 4540737 total 7.0 bits
p35 5.7 bits
... p35-(23)-p10 4
p35 4.6 bits
... p35-(23)-p10 4
p35-(24)-p10 4540728 Gap 2.4 bits
p35-p10 4540728 total 8.6 bits
... p35-p10 454067
... p35-(25)-p10 4
... p35-p10 454067
... p35-(24)-p10 4
... p35-p10 454066
... p35-p10 454066
... p35
... p35-p10 454065
*4540680 *4540670 *4540660 *4540650 *4540640
5' t t a a c t t t a t t a t c a a t a a g t t a a a t c a a a c c t c t t c t c t t t t t a 3'
- leu - thr - leu - leu - ser - ile - ser -
... p35 3.8 bits
... NC_000913.fimE
p10 2.6 bits
p10 3.8 bits


p10 3.7 bits


p10 3.7 bits

... ----------} p35-(23)-p10 4540659 Gap 1.4 bits

... --} p35-(23)-p10 4540680 Gap 1.4 bits

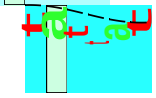

p10 1.4 bits

... --| p35-p10 4540680 total 6.8 bits
... ----} p35-(24)-p10 4540679 Gap 2.4 bits
... ----| p35-p10 4540679 total 6.9 bits
... ----------} p35-(23)-p10 4540660 Gap 1.4 bits
... ----------} p35-(23)-p10 4540675 Gap 1.4 bits
... ----------| p35-p10 4540675 total 6.8 bits
... ----------} p35-(25)-p10 4540673 Gap 4.0 bits
... ----------| p35-p10 4540673 total 8.7 bits
... ----------} p35-(24)-p10 4540664 Gap 2.4 bits
... ----------| p35-p10 4540664 total 6.2 bits
... ----------| p35-p10 4540660 total 6.1 bits

... p35 4.7 bits

... ----------| p35-p10 4540659 total 4.7 bits

p10 2.6 bits


p10 7.1 bits