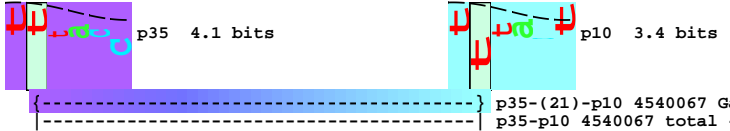
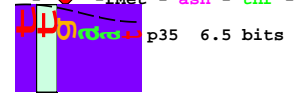


piece 1, NC_000913, fimB_fimE-, config: linear, direction: -, begin: 4540089, end: 4539563

5' ^{*}tttaccggttaagataacgacggtttactcaaaatagtagtactcctaactgagataatattgaaatgaatacctataggaaac3'
 - phe - thr - gly - lys - ile - thr - thr - phe - thr - his - asn - ser - ser - thr - pro - asn - fMet - asn - glu - tyr - leu - - - -
 - leu - pro - val - arg -
 - tyr - arg -

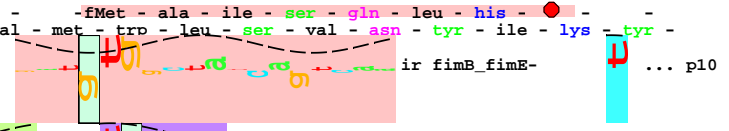
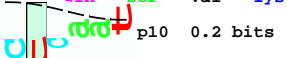
... -----] NC_000913.fimE



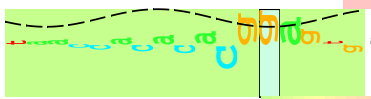
-----] ... p35-(23)-p10 4540007 Gap

-----] ... p35-p10 4540007 total 5.3

5' ^{*}ctcaatcgggtcaaaaatttagcccaaatagataaaaaagataaacacacacggagtgatgtggcttatcagtcacaattacattaaat3'
 - gln - ser - val - lys - ile - ser - pro - ile - asp - lys - lys - ile - thr - thr - his - gly - val - met - trp - leu - ser - val - asn - tyr - ile - lys - tyr -
 -



... --} p35-(23)-p10 4540007 Gap 1.4 bits



[###] orf 8 codons

... --| p35-p10 4540007 total 5.3 bits

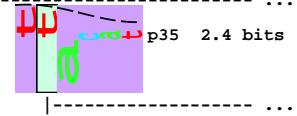
sd-(7)-ir 4539953 Gap 3.7 bits

sd-ir 4539953 fimB fimE- total 5.1 bits

-----] ... p35-(23)-p10 4539914 Gap

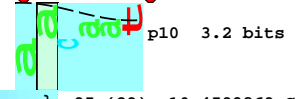
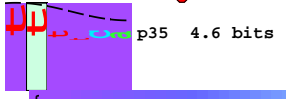
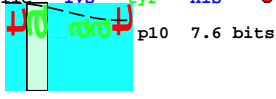
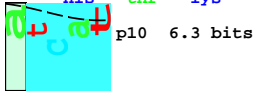
-----] ... p35-(24)-p10 4539927 Gap

-----] ... p35-p10 4539927 total 7.0



-----] ... p35-p10 4539914 total 8.6

5' ^{*}atcatacaaaaaataaaaatattcactgattgtgacaacatctattttcattgatttgattccaataataacaatagattgcagtggtg3'
 - his - thr - lys - ile - lys - tyr - his - fMet - thr - thr - ser - ile - phe - ile - asp - leu - ile - gln - tyr - asn - asn - arg - leu - gln - trp -
 -



... -----] p35-(23)-p10 4539914 Gap 1.4 bits

-----] p35-(23)-p10 4539863 Gap 1.4 bits

-----] p35-p10 4539863 total 6.4 bits

... } p35-(24)-p10 4539927 Gap 2.4 bits

-----] p35-(22)-p10 4539858 Gap 2.3 bits

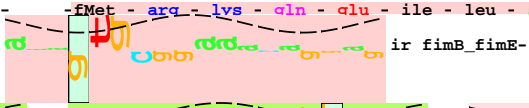
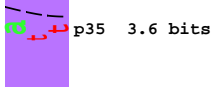
-----] p35-p10 4539858 total 8.1 bits

-----] ... p35-(22)-p10 4539826 Gap

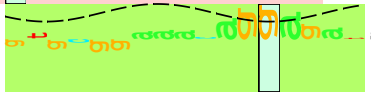
-----] ... p35-p10 4539826 total 5.1

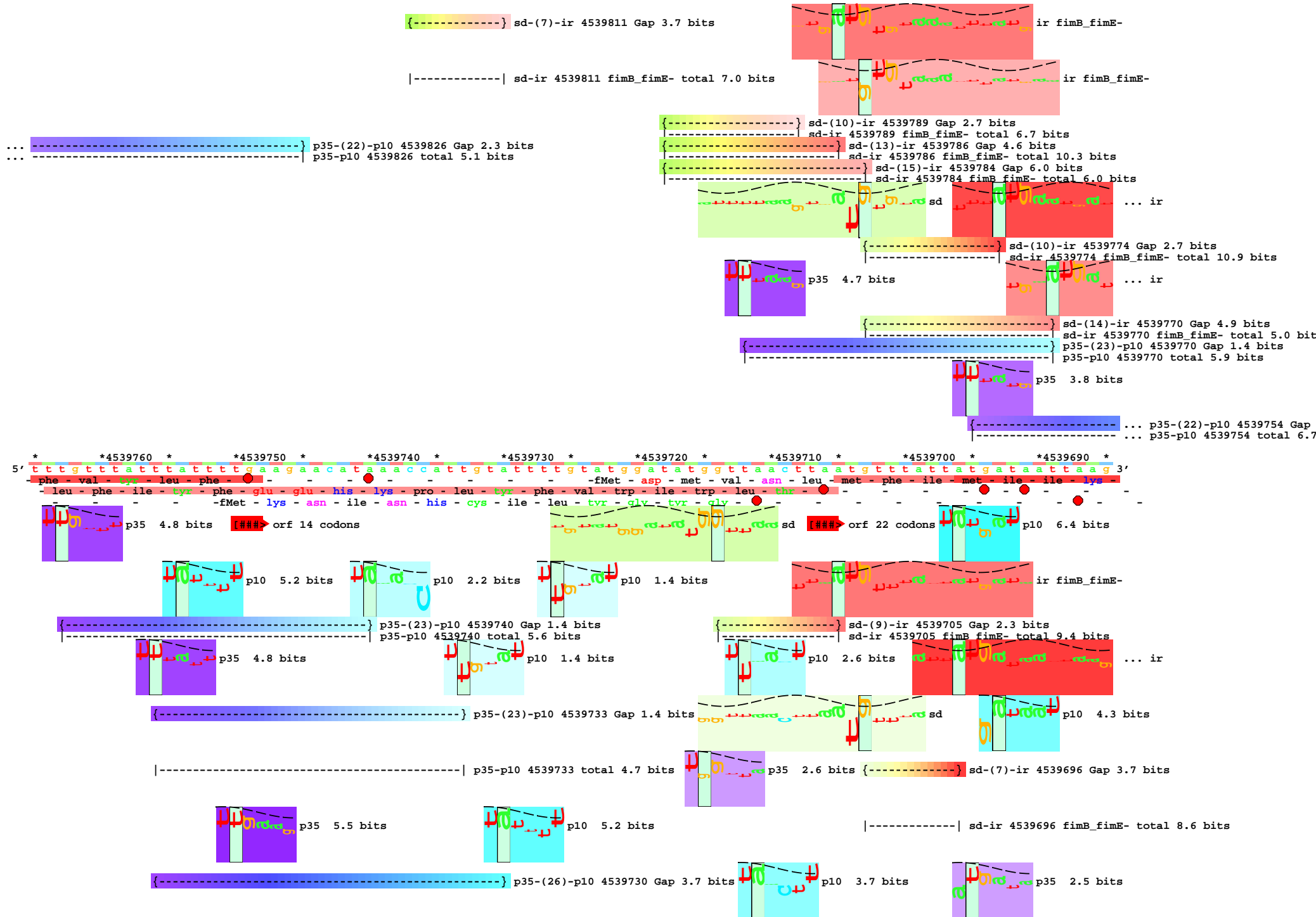
... -----] p35-p10 4539914 total 8.6 bits

5' ^{*}attaaccttcaggttgcttataaaaaataaagaaaaaaagtgcgggaaacaggagagatttttaagtgatgtgtgataaatttataatgatgat3'
 - ile - asn - phe - gln - leu - leu - lys - lys - fMet - arg - lys - gln - gln - ile - leu - ser - asp - val -

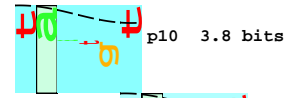


[###] orf 11 codons

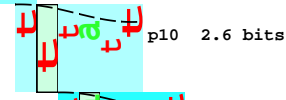




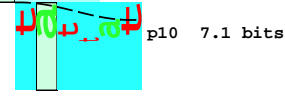
-----| p35-p10 4539730 total 6.3 bits



... ir fimB_fimE- {-----} p35-(24)-p10 4539726 Gap 2.4 bits



-----| p35-p10 4539726 total 4.5 bits



{-----} p35 5.7 bits {-----} p35-(22)-p10 4539699 Gap 2.3 bits

... ir fimB_fimE- {-----} p35-(21)-p10 4539712 Gap 3.3 bits

-----| p35-p10 4539712 total 4.9 bits {-----} ... p35-(21)-p10 4539674 Gap
-----| p35-(22)-p10 4539711 Gap 2.3 bits
-----| p35-p10 4539711 total 7.0 bits |-----} ... p35-p10 4539674 total 6.1

{-----} p35 2.9 bits {-----} p35-(22)-p10 4539693 Gap 2.3 bits

... {-----} p35-(22)-p10 4539754 Gap 2.3 bits

{-----} p35-(22)-p10 4539706 Gap 2.3 bits
-----| p35-p10 4539706 total 4.4 bits

... -----| p35-p10 4539754 total 6.7 bits

{-----} p35 5.7 bits {-----} p35 4.8 bits

{-----} p35-(25)-p10 4539701 Gap 4.0 bits
-----| p35-p10 4539701 total 4.2 bits

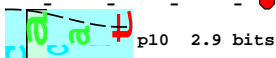
{-----} p35 3.5 bits

{-----} ... p35-(21)-p10 4539680 Gap

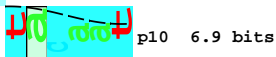
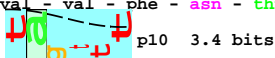
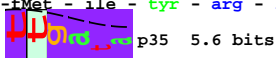
-----| p35-p10 4539699 total 8.2 bits
-----| p35-(25)-p10 4539696 Gap 4.0 bits
-----| p35-p10 4539696 total 5.9 bits
-----| p35-p10 4539693 total 4.6 bits

{-----} ... p35-p10 4539680 total 4.5
-----| p35-(26)-p10 4539669 Gap
-----| p35-p10 4539669 total 4.4

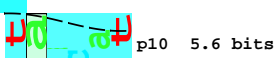
5' *4539680 * *4539670 * *4539660 * *4539650 * *4539640 * *4539630 * *4539620 * *4539610 *
a a t c a c a c t t a c a a t a a c a t c a a t t a a t a a a t g g t t a a t c a t t t t t g a t a t a t c g t a a g a a t a a t g t a g t t t t t a a c a c c a 3'
asn - his - thr - tyr - asn - asn - ile - asn - fMet - val - asn - his - phe - fMet - ile - tyr - arg - lys - asn - asn - val - val - phe - asn - thr - ile -



orf 16 codons



{-----} p35-(22)-p10 4539617 Gap 2.3 bits



-----| p35-p10 4539617 total 6.6 bits



... ir fimB_fimE-

{----- ... p35-(23)-p10 4539589 Gap

|----- ... p35-p10 4539589 total 4.6

... -----} p35-(21)-p10 4539674 Gap 3.3 bits

... -----| p35-p10 4539674 total 6.1 bits

... -----} p35-(21)-p10 4539680 Gap 3.3 bits

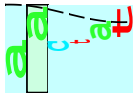
... -----| p35-p10 4539680 total 4.5 bits

... -----} p35-(26)-p10 4539669 Gap 3.7 bits

... -----| p35-p10 4539669 total 4.4 bits

5' *4539600 * *4539590 * *4539580 * *4539570 *
t c c c t g g t a t c t c a a c t a t c t c t a t a a a c a g c g t g a c g c t 3'
- fMet - thr -
- pro - gly - ile - ser - thr - ile - ser - ile - lys - gln - arg - asp - ala -

... NC_000913.fimB



p10 1.9 bits

... -----} p35-(23)-p10 4539589 Gap 1.4 bits
... -----| p35-p10 4539589 total 4.6 bits