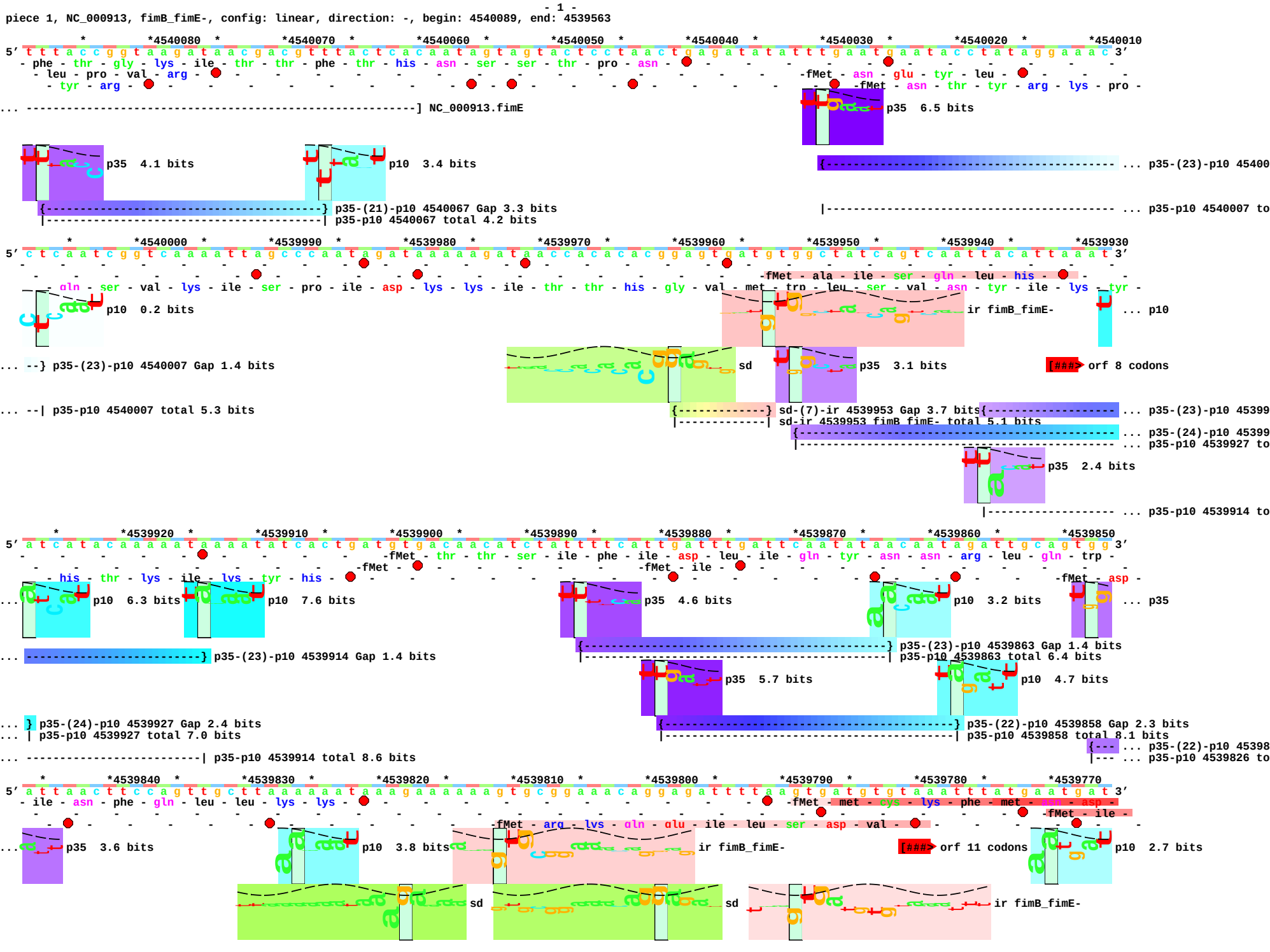
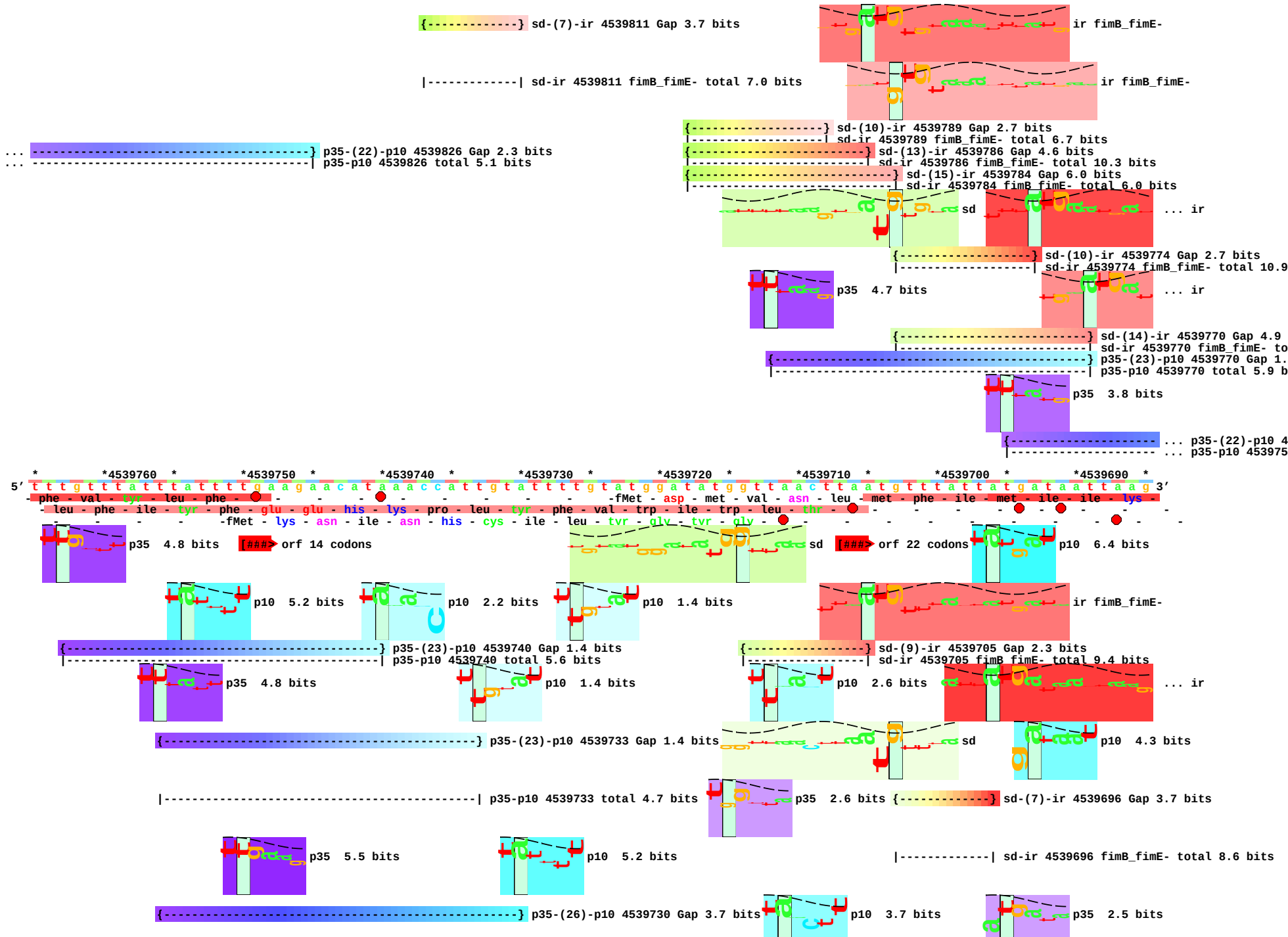
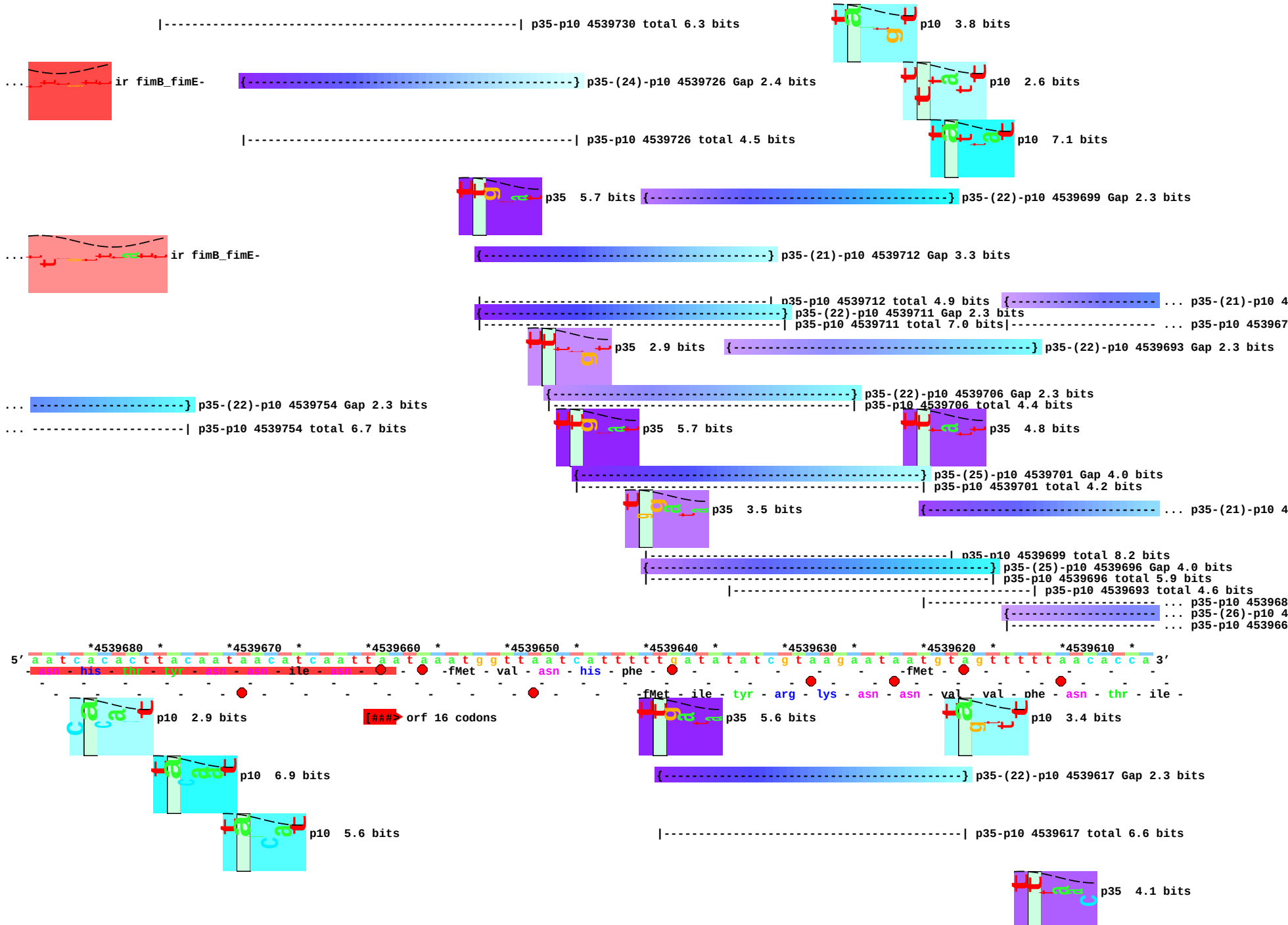

piece 1, NC_000913, fimB_fimE-, config: linear, direction: -, begin: 4540089, end: 4539563
*4540080 *4540070 *4540060 *4540050 *4540040 *4540030 *4540020 *4540010
5′ t t t a c c g g t a a g a t a a c g a c g t t t a c t c a c a a t a g t a g t a c t c c t a a c t g a g a t a t t t g a a t g a a t a c c t a t a g g a a a c 3′
- phe - thr - gly - lys - ile - thr - thr - phe - thr - his - asn - ser - ser - thr - pro - asn -
- leu - pro - val - arg -
-fMet - asn - glu - tyr - leu -
- tyr - arg -
-fMet - asn - thr - tyr - arg - lys - pro -
... ----------] NC_000913.fimE
p35 6.5 bits
p35 4.1 bits
p10 3.4 bits
{---------- ... p35-(23)-p10 45400
{----------} p35-(21)-p10 4540067 Gap 3.3 bits
|----------| p35-p10 4540067 total 4.2 bits
|---------- ... p35-p10 4540007 to
*4540000 *4539990 *4539980 *4539970 *4539960 *4539950 *4539940 *4539930
5′ c t c a a t c g g t c a a a a t t a g c c c a a t a g a t a a a a a g a t a a c c a c a c a c g g a g t g a t g g c t a t c a g t c a a t t a c a t t a a a t 3′
-fMet - ala - ile - ser - gln - leu - his -
- 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 -
p10 0.2 bits
ir fimB_fimE- ... p10
... --} p35-(23)-p10 4540007 Gap 1.4 bits
sd
p35 3.1 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 45399
{---------- ... p35-(24)-p10 45399
|---------- ... p35-p10 4539927 to
p35 2.4 bits
|---------- ... p35-p10 4539914 to
*4539920 *4539910 *4539900 *4539890 *4539880 *4539870 *4539860 *4539850
5′ a t c a t a c a a a a a t a a a a t a t c a c t g a t g t g a c a a c a t c t a t t t t c a t t g a t t t g a t t c a a t a t a a c a a t a g a t t g c a g t g g 3′
-fMet - thr - thr - ser - ile - phe - ile - asp - leu - ile - gln - tyr - asn - asn - arg - leu - gln - trp -
-fMet - ile -
- his - thr - lys - ile - lys - tyr - his -
-fMet - asp -
... p10 6.3 bits
p10 7.6 bits
p35 4.6 bits
p10 3.2 bits
... p35
{----------} p35-(23)-p10 4539863 Gap 1.4 bits
|----------| p35-p10 4539863 total 6.4 bits
... ----------} p35-(23)-p10 4539914 Gap 1.4 bits
p35 5.7 bits
p10 4.7 bits
{---------- ... p35-(22)-p10 45398
... } p35-(24)-p10 4539927 Gap 2.4 bits
... | p35-p10 4539927 total 7.0 bits
{----------} p35-(22)-p10 4539858 Gap 2.3 bits
|----------| p35-p10 4539858 total 8.1 bits
|--- ... p35-p10 4539826 to
... ----------| p35-p10 4539914 total 8.6 bits
*4539840 *4539830 *4539820 *4539810 *4539800 *4539790 *4539780 *4539770
5′ a t t a a c t t c c a g t t g c t t a a a a a a t a a g a a a a a a g t g c g g a a a c a g g a g a t t t t a a g t g a t g t g t a a a t t a t g a a t g a a t 3′
- ile - asn - phe - gln - leu - leu - lys - lys -
-fMet - met - cys - lys - phe - met - asn - asp -
-fMet - ile -
-fMet - arg - lys - gln - glu - ile - leu - ser - asp - val -
... p35 3.6 bits
p10 3.8 bits
ir fimB_fimE-
[###> orf 11 codons
p10 2.7 bits
sd
sd
ir fimB_fimE-


{----------} sd-(7)-ir 4539811 Gap 3.7 bits
ir fimB_fimE-
|----------| sd-ir 4539811 fimB_fimE- total 7.0 bits
ir fimB_fimE-
{----------} sd-(10)-ir 4539789 Gap 2.7 bits
|----------| sd-ir 4539789 fimB_fimE- total 6.7 bits
... ----------} p35-(22)-p10 4539826 Gap 2.3 bits
... ----------| p35-p10 4539826 total 5.1 bits
{----------} sd-(13)-ir 4539786 Gap 4.6 bits
|----------| sd-ir 4539786 fimB_fimE- total 10.3 bits
{----------} sd-(15)-ir 4539784 Gap 6.0 bits
|----------| sd-ir 4539784 fimB_fimE- total 6.0 bits
sd
... ir
{----------} sd-(10)-ir 4539774 Gap 2.7 bits
|----------| sd-ir 4539774 fimB_fimE- total 10.9
p35 4.7 bits
... ir
{----------} sd-(14)-ir 4539770 Gap 4.9
|----------| sd-ir 4539770 fimB_fimE- to
{----------} p35-(23)-p10 4539770 Gap 1.
|----------| p35-p10 4539770 total 5.9 b
p35 3.8 bits
{---------- ... p35-(22)-p10 4
|---------- ... p35-p10 453975
* *4539760 * *4539750 * *4539740 * *4539730 * *4539720 * *4539710 * *4539700 * *4539690 *
5' t t t g t t t a t t t a t t t t g a a g a a c a t a a a c c a t t g t a t t t t g t a t g g a t a t g g t t a a c t t a a t g t t t a t t a t g a t a a t t a a g 3'
- phe - val - tyr - leu - phe - - - - - - - - - - -fMet - asp - met - val - asn - leu - met - phe - ile - met - ile - ile - lys -
- leu - phe - ile - tyr - phe - glu - glu - his - lys - pro - leu - tyr - phe - val - trp - ile - trp - leu - thr - - - - - - - - - - -
- - - - -fMet - lys - asn - ile - asn - his - cys - ile - leu - tyr - gly - tyr - gly - - - - - - - - - - -
p35 4.8 bits
[###> orf 14 codons
sd
[###> orf 22 codons
p10 6.4 bits
p10 5.2 bits
p10 2.2 bits
p10 1.4 bits
ir fimB_fimE-
{----------} p35-(23)-p10 4539740 Gap 1.4 bits
|----------| p35-p10 4539740 total 5.6 bits
{----------} sd-(9)-ir 4539705 Gap 2.3 bits
|----------| sd-ir 4539705 fimB_fimE- total 9.4 bits
p35 4.8 bits
p10 1.4 bits
p10 2.6 bits
... ir
{----------} p35-(23)-p10 4539733 Gap 1.4 bits
sd
p10 4.3 bits
|----------| p35-p10 4539733 total 4.7 bits
p35 2.6 bits
{----------} sd-(7)-ir 4539696 Gap 3.7 bits
p35 5.5 bits
p10 5.2 bits
|----------| sd-ir 4539696 fimB_fimE- total 8.6 bits
{----------} p35-(26)-p10 4539730 Gap 3.7 bits
p10 3.7 bits
p35 2.5 bits


|---| p35-p10 4539730 total 6.3 bits
p10 3.8 bits
... ir fimB_fimE-
{---} p35-(24)-p10 4539726 Gap 2.4 bits
p10 2.6 bits
|---| p35-p10 4539726 total 4.5 bits
p10 7.1 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 4
{---} p35-(22)-p10 4539711 Gap 2.3 bits
|---| p35-p10 4539711 total 7.0 bits|---------- ... p35-p10 453967
p35 2.9 bits
{---} p35-(22)-p10 4539693 Gap 2.3 bits
{---} p35-(22)-p10 4539706 Gap 2.3 bits
... ----------} p35-(22)-p10 4539754 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 4
|---| 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 453968
{---------- ... p35-(26)-p10 4
|---------- ... p35-p10 453966
*4539680 * *4539670 * *4539660 * *4539650 * *4539640 * *4539630 * *4539620 * *4539610 *
5’ 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 - - - - - - -
- - - - - - -

... ir fimB_fimE- {---------- ... p35-(23)-p10 4

|---------- ... p35-p10 453958

... ----------} 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

*4539600 * *4539590 * *4539580 * *4539570 *

5′ 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 a c a g c g t g a c g c t 3′

- - - -