

piece 1, NC_000913, TRIP2c_fimB+, config: linear, direction: +, begin: 4537990, end: 4538999

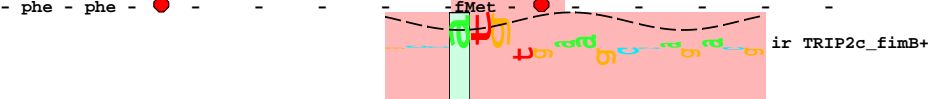
*4537990 * *4538000 * *4538010 * *4538020 * *4538030 * *4538040 * *4538050 * *4538060 * *4538070

5' c a a c a a a a c c a g a t t t g c a a t t c g t g t c a c a a a a t a t g t c g a t c t t t t t c t a a g a g g a a g a t g c c a t g t g a a g c c a g a c g a 3'

- gln - gln - asn - gln - ile - cys - asn - ser - cys - his - lys - ile - cys - arg - ser - phe - ser - lys - arg - lys - met - pro - cys - glu - ala - arg - arg -

- asn - lys - thr - arg - phe - ala - ile - arg - val - thr - lys - tyr - val - asp - leu - phe - leu - arg - gly - arg - cys - his - val - lys - pro - asp - glu -

- thr - lys - pro - asp - leu - gln - phe - val - ser - gln - asn - met - ser - ile - phe - phe -



orf 2 codons

{-----} sd-(9)-ir 4538055 Gap 2.3 bits
 {-----} sd-ir 4538055 TRIP2c fimB+ total 11.4 bits

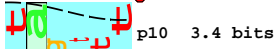
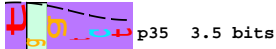
{-----} sd-(11)-ir 4538057 Gap 3.0 bits
 {-----} sd-ir 4538057 TRIP2c_fimB+ total 9.4 bits

*4538080 * *4538090 * *4538100 * *4538110 * *4538120 * *4538130 * *4538140 * *4538150

5' a c a c t t g c g g t g g t c t t c a a a a a c t a a a g a t c t t a g t t t a a c t a t t t g t t t a t a a a a t a a t t t t a t t a a g a g t c t a a a c a a g 3'

- thr - leu - ala - val - val - phe - lys - asn - -fMet - phe - tyr - lys -

- his - leu - arg - trp - ser - ser - lys - thr - lys - asp - leu - ser - leu - thr - ile - cys - phe - ile - asn - asn - leu - leu - arg - val -

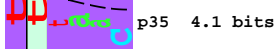


orf 30 codons

{-----} p35-(23)-p10 4538105 Gap 1.4 bits

{-----} p10 2.6 bits

|-----| p35-p10 4538105 total 5.5 bits



... ir TRIP2c_fimB+

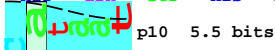
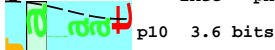
{-----} p35-(21)-p10 4538129 Gap 3.3 bits

|-----| p35-p10 4538129 total 5.3 bits
 {-----} p35-(24)-p10 4538132 Gap 2.4 bits
 {-----} p35-p10 4538132 total 4.3 bits

*4538160 * *4538170 * *4538180 * *4538190 * *4538200 * *4538210 * *4538220 * *4538230

5' g g g a g c t t t g c a a g c t a a c t c a g t g a g c t t g g t g a a a a t c a g t g t t t a c c c g c c a t c a g g c t g a g c a t a a t t c t c a t c a t g 3'

-fMet - gln - ala - asn - ser - val - ser - leu - val - lys - ile - ser - val - tyr - pro - pro - ser - gly - -fMet - phe - thr - arg - his - gln - ala - glu - his - asn - ser - his - his - glu -



{-----} p35-(26)-p10 4538186 Gap 3.7 bits
 {-----} p35-p10 4538186 total 5.9 bits

{-----} p35 4.1 bits

{-----} p35-(21)-p10 4538218 Gap 3.3 bits
 {-----} p35-p10 4538218 total 6.3 bits

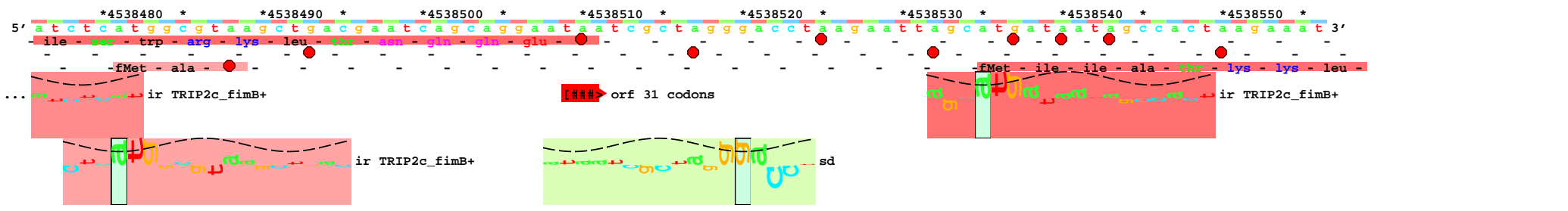
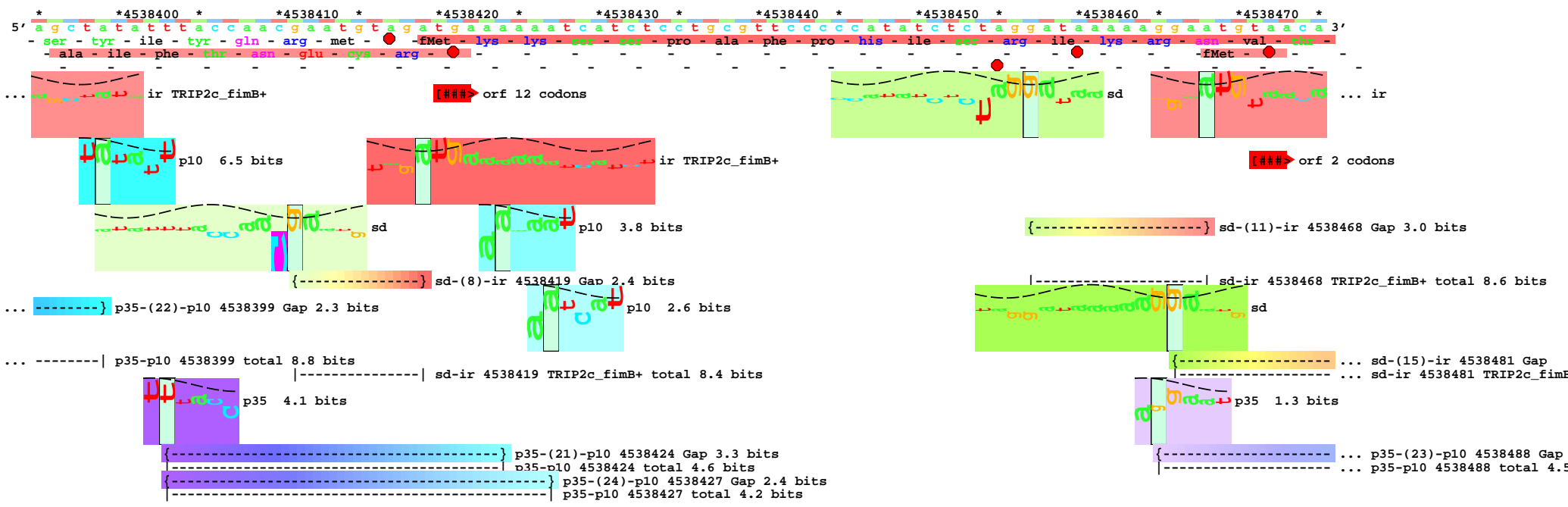
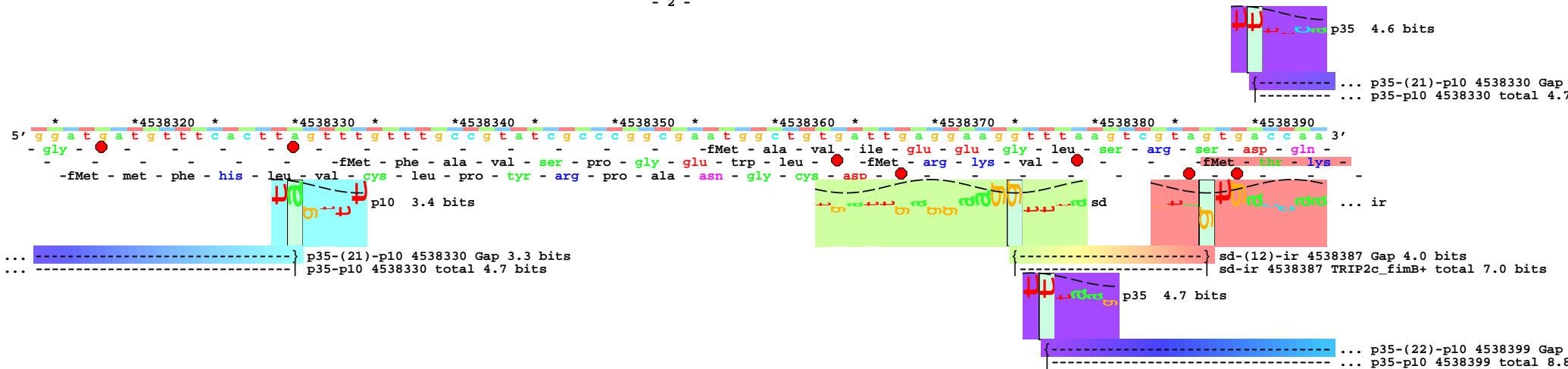
*4538240 * *4538250 * *4538260 * *4538270 * *4538280 * *4538290 * *4538300 * *4538310

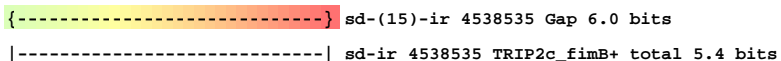
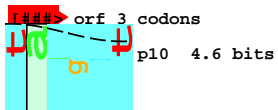
5' a a a t a t g t t t c c t t g g t t t g t g g c t t g t a a c t g g t c a c t t e t t g a a g t c g a t c t t g g a g a g g c t t g t g a t g t t g g t g t t t t c a 3'

- lys - tyr - val - ser - trp - phe - val - ala - cys - asn - trp - ser - leu - leu - lys - ser - ile - trp - arg - gly - leu - leu - met - leu - val - phe - ser -

-fMet - phe - pro - gly - leu - trp - leu - val - thr - gly - his - phe -

- ile - cys - phe - leu - val - cys - gly - leu -





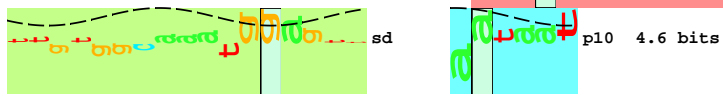
sd-(15)-ir 4538481 Gap 6.0 bits
sd-ir 4538481 TRIP2c_fimB+ total 7.5 bits

p35-(23)-p10 4538488 Gap 1.4 bits
p35-p10 4538488 total 4.5 bits

5' *t a c t g c g c t c c a t g a a a t a g c c a t t t t g t g g c a a a t g g a g t t g a c t a a t a a t g t c o a t a t g t g a g a c g g c t a g t t g a a c g a a* 3'
 -fMet - ala - asn - gly - val - asp - - - -fMet - - - -fMet - asn - glu -
 - leu - arg - ser - met - lys - - - -fMet - trp - gln - met - glu - leu - thr - asn - asn - val - ile - cys - glu - thr - ala - ser - - -fMet - asn - glu -

ORF 14 codons

ir TRIP2c_fimB+



p35-(23)-p10 4538604 Gap 1.4 bits
p35-p10 4538604 total 6.1 bits



p35-(23)-p10 4538606 Gap 1.4 bits
p35-p10 4538606 total 5.2 bits

5' *t a t t a a a t t t t g c t g a a t t t t t a t g t t g a t t t a c t t g t t a c a g a a c a t a t a t a t a t a g a t a g a t t a g t t g c a* 3'
 -fMet - leu - asn - phe - leu - cys - - -fMet - leu - gln - asn - ile - ser - his - asp - ile - - -fMet - ile - tyr - arg - - -fMet - his -
 - leu - asn - phe - ala - glu - phe - phe - met - leu - ile - leu - leu - val - thr - glu - his - ile - thr - - - -fMet - his -

ORF 30 codons ORF 5 codons

... p35



sd-(9)-ir 4538661 Gap 2.3 bits

sd-(11)-ir 4538693 Gap 3.0 bits

... p35-(24)-p10 4538734 Gap

sd-ir 4538661 TRIP2c_fimB+ total 6.7 bits

sd ... p35-(22)-p10 4538737 Gap



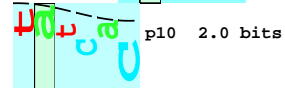
sd-ir 4538693 TRIP2c_fimB+ total 5.2 bits ... p35-p10 4538737 total 5.9

p35-(22)-p10 4538670 Gap 2.3 bits

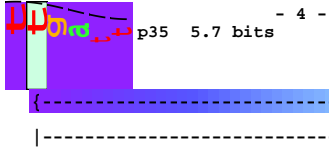
p10 3.6 bits

sd-(14)-ir 4538722 Gap

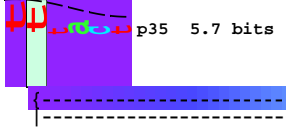
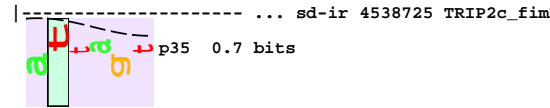
p35-p10 4538670 total 5.4 bits



sd-ir 4538722 TRIP2c_fimB+



{-----} ... sd-(17)-ir 4538725 Gap



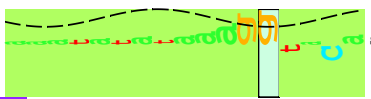
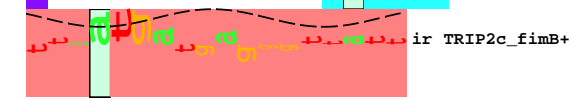
{-----} ... p35-(24)-p10 4538739 Gap
 {-----} ... p35-p10 4538739 total 5.5
 {-----} ... p35-(25)-p10 4538740 Gap
 {-----} ... p35-p10 4538740 total 6.9

5' *4538720 * *4538730 * *4538740 * *4538750 * *4538760 * *4538770 * *4538780 * *4538790 *
 - t a a t g a t g a g g g t t a t t a t t a g a t t c g t a t c c g a t t g a t a a a t a t a t a a a g g t a c a t a g c a t g c a a g a g c a t g g c g t t t g 3'
 -fMet - met - arg - val - ile - ile - arg - phe - val - ser - asp - -fMet - ile - asn - ile - -fMet - gln - glu - his - gly - val - cys -
 -fMet - ala - phe - val -

... p35 6.2 bits p10 7.1 bits

[###] orf 12 codons

ir TRIP2c_fimB+



... p35-(24)-p10 4538734 Gap 2.4 bits

p35 5.6 bits

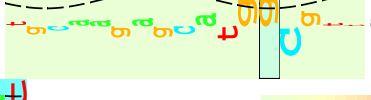
{-----} sd-(9)-ir 4538780 Gap 2.3 bits

... p35

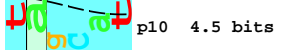
... p35-(22)-p10 4538737 Gap 2.3 bits

sd-ir 4538780 TRIP2c_fimB+ total 11.4 bits

... p35-p10 4538737 total 5.9 bits



... sd-(14)-ir 4538722 Gap 4.9 bits p10 4.7 bits



{-----} ... sd-(8)-ir 4538801 Gap

... sd-ir 4538722 TRIP2c_fimB+ total 5.1 bits

... sd-(17)-ir 4538725 Gap 6.5 bits

... sd-ir 4538725 TRIP2c_fimB+ total 5.2 bits

{-----} p35-(22)-p10 4538777 Gap 2.3 bits

p35-p10 4538777 total 7.8 bits

... sd-ir 4538801 TRIP2c_fimB+

... p35-(23)-p10 4538821 Gap

... p35-p10 4538821 total 4.7

... p35-p10 4538734 total 5.4 bits

... p35-(24)-p10 4538739 Gap 2.4 bits

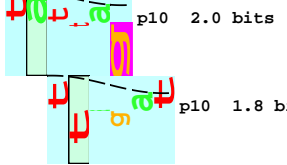
... p35-p10 4538739 total 5.5 bits

... p35-(25)-p10 4538740 Gap 4.0 bits

... p35-p10 4538740 total 6.9 bits

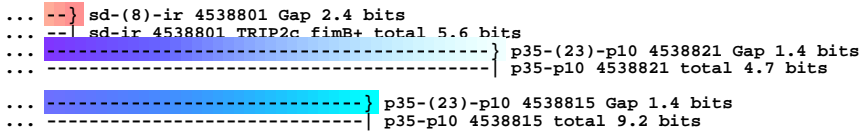
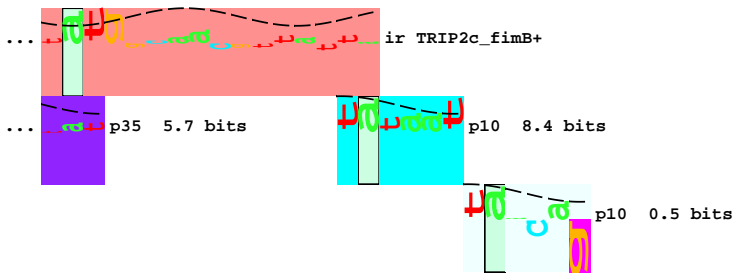
... p35-(23)-p10 4538815 Gap

... p35-p10 4538815 total 9.2



5' *4538800 * *4538810 * *4538820 * *4538830 * *4538840 * *4538850 * *4538860 * *4538870 * *4538880
 - t a t g g c a a c g t t a t t a a t t a a c a g t t g c t a c t c c a t t t a a g t t c a c t c a g a a g a a c t g g t c c a c t t a c g t t a g t t a t t a 3'
 - tyr - gly - asn - val - ile - ile - ile - asn - ser - cys - tyr - ser - ile - -fMet - leu - leu - his - leu - ser - ser - leu - arg - arg - thr - gly - pro - leu - thr - leu - val - ile - lys -
 - trp - gln - arg - tyr - tyr - asn - -

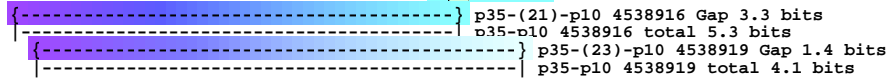
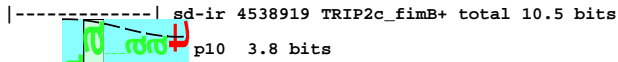
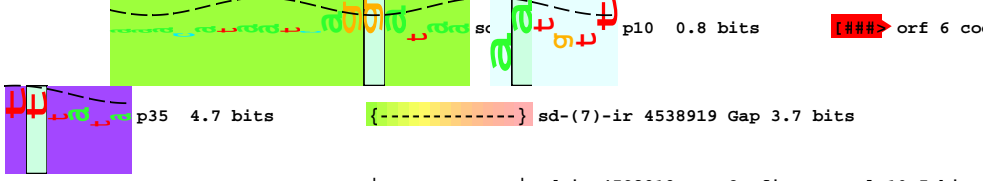
[###] orf 13 codons



5' * *4538890 * *4538900 * *4538910 * *4538920 * *4538930 * *4538940 * *4538950 * *4538960

a g c a a a c g t t c g c t t t t a t a a a c a t a a t c a g g a t a a a a a t g t t g g a t t a t t g c t a a c c c a g c a c a g c t a g t g c g c g t c t g t 3'

-fMet - arg - val - cys -



5' * *4538970 * *4538980 * *4538990 *

a a t t a t a a g g g a a a a a c g a t g a a g a a t a a g g c t g a t a a 3'

-asn - tyr - lys - gly - lys - thr - met - lys - asp - lys - ala - asp -

