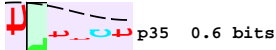


piece 1, NC_000913, TRIP2c_fimB-, config: linear, direction: -, begin: 4539009, end: 4538000

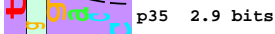
5' *c c t t t t t t g t t a t c a g c c t t a t t c t t c a t c g t t t t t c c c t t a t a a t t a c a g a c g c g a a c t a g c t g t c t g g g t t a g c a a t t 3'*
 - pro - phe - phe - val - ile - ser - leu - ile - leu - his - arg - phe - ser - leu - ile - ile - thr - asp - ala - his - - - - -
 -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

... -----] NC_000913.fimB p10 8.4 bits



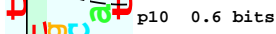
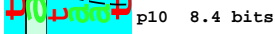
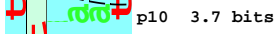
{-----} p35-(21)-p10 4538967 Gap 3.3 bits
 {-----} p35-p10 4538967 total 5.7 bits

5' *a a t c c a a c a t t t t t t a t c c t t g a t t a t g t t t a t a a a a g c g a a c g t t t g c t t a a t a a c t a a c g t a a g t g g a c c a g t t c t t c t t g a 3'*
 -fMet - leu - asn - asn - - - - -fMet - asp - gln - phe - phe - - -
 -fMet - phe - ile - lys - ala - asn - val - cys - leu - ile - thr - asn - val - ser - gly - pro - val - leu - leu - ser -

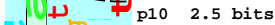


{-----} ... p35-(23)-p10 4538840 Gap
 {-----} ... p35-p10 4538840 total 5.2

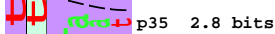
5' *g t g a a c t t a a a t g g a g t a g c a a c t g t t a a t t a t a a t a a c g t t g c c a t a c a a a c g c c a t g c t c t t g c a t g c t a t g t a c c t t t 3'*
 -fMet - asn - leu - asn - gly - val - ala - thr - val - asn - tyr - asn - asn - val - ala - ile - gln - thr - pro - cys - ser - cys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



... -----} p35-(23)-p10 4538840 Gap 1.4 bits



... -----} p35-p10 4538840 total 5.2 bits

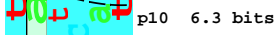
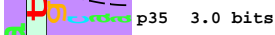
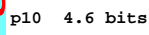
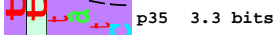


{-----} p35-(22)-p10 4538784 Gap 2.3 bits
 {-----} p35-p10 4538784 total 4.3 bits

{-----} p35-(24)-p10 4538816 Gap 2.4 bits
 {-----} p35-p10 4538816 total 8.7 bits

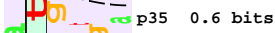
{-----} p35-(25)-p10 4538781 Gap 4.0 bits
 {-----} p35-p10 4538781 total 4.5 bits

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



{-----} p35-(22)-p10 4538738 Gap 2.3 bits
 {-----} p35-p10 4538738 total 5.6 bits

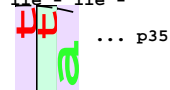
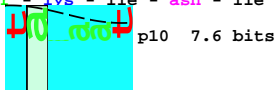
{-----} p35-(21)-p10 4538697 Gap 3.3 bits
 {-----} p35-p10 4538697 total 6.0 bits



{-----} ... p35-(22)-p10 4538671 Gap
 {-----} ... p35-p10 4538671 total 5.9

5' *g t t c t g t a a c a a g t a a a a t c a a c a t a a a a a a t t c a g c a a a a t t t a a t a t t c g t t c a a a c t a g c c g t c t c a c a t a t a g a c a t t a 3'*
 -fMet - thr - leu -

- phe - cys - asn - lys - ser - val - thr - lys - ile - asn - ile - lys - asn - ser - ala - lys - phe - asn - ile - arg - ser - thr - ser - arg - leu - thr - tyr - asp - ile - ile -



p10 7.6 bits

... p35

{--- ... p35-(23)-p10 4538583 Gap
--- ... p35-p10 4538583 total 4.2

... p35-(22)-p10 4538671 Gap 2.3 bits
... p35-p10 4538671 total 5.9 bits

5' *4538600 * *4538590 * *4538580 * *4538570 * *4538560 * *4538550 * *4538540 * *4538530 *
- leu - val - asn - ser - ile - cys - his - lys - met - ala - ile - ser - trp - ser - ala - val - ile - ser -

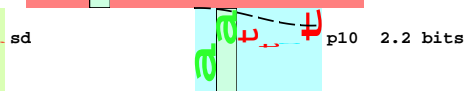
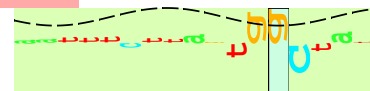
- ser - gln - leu - his - leu - pro - gln - asn - gly - tyr - phe - met - glu - arg - ser - asn - phe - leu - val - ala - ile - ile - met - leu - ile - leu - arg -

... p35 0.9 bits

ir TRIP2c_fimB-

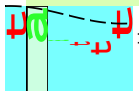
... ir

... p35-(23)-p10 4538583 Gap 1.4 bits



p10 2.2 bits

... p35-p10 4538583 total 4.2 bits



p10 4.4 bits

{--- sd-(9)-ir 4538536 Gap 2.3 bits



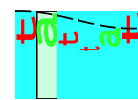
sd



p35 1.1 bits

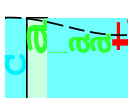
|--- sd-ir 4538536 TRIP2c_fimB- total 8.5 bits

{--- sd-(8)-ir 4538569 Gap 2.4 bits



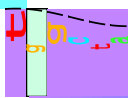
p10 7.1 bits

|--- sd-ir 4538569 TRIP2c_fimB- total 5.4 bits

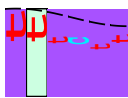


p10 4.7 bits

{--- p35-(25)-p10 4538542 Gap 4.0 bits



p35 3.1 bits



p35 4.5 bits

{--- p35-(21)-p10 4538557 Gap 3.3 bits
p35-p10 4538557 total 4.2 bits

{--- p35-p10 4538542 total 4.1 bits

{--- p35-(24)-p10 4538530 Gap 2.4 bits
p35-p10 4538530 total 4.2 bits

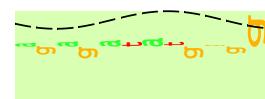
5' *4538520 * *4538510 * *4538500 * *4538490 * *4538480 * *4538470 * *4538460 * *4538450 *
- ser - leu - ala - ile - ile - pro - ala - asp - ser - ser - ala - tyr - ala - met - arg - leu - leu - his - ser - phe - leu - ser - -fMet - gly -

- ser - leu - ala - ile - ile - pro - ala - asp - ser - ser - ala - tyr - ala - met - arg - leu - leu - his - ser - phe - leu - ser -

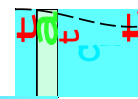
... ir TRIP2c_fimB-

p35 1.5 bits

[###] orf 39 codons



... sd



p10 5.2 bits

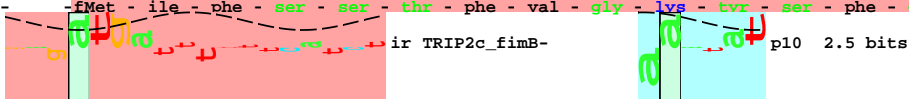
{--- p35-(22)-p10 4538459 Gap 2.3 bits

-----| p35-p10 4538459 total 4.4 bits

*4538440 * *4538430 * *4538420 * *4538410 * *4538400 * *4538390 * *4538380 * *4538370 *

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

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



sd

p35 3.9 bits

p10 1.6 bits

sd-(11)-ir 4538431 Gap 3.0 bits

sd-ir 4538431 TRIP2c_fimB- total 5.9 bits

p35-(23)-p10 4538403 Gap 1.4 bits

p35-p10 4538403 total 5.0 bits

p35 5.3 bits

p35-(23)-p10 4538400 Gap 1.4 bits

p35-p10 4538400 total 5.5 bits

*4538360 * *4538350 * *4538340 * *4538330 * *4538320 * *4538310 * *4538300 * *4538290 *

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

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

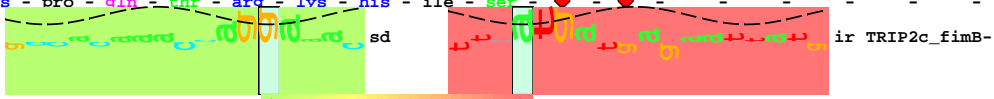
orf 36 codons

*4538280 * *4538270 * *4538260 * *4538250 * *4538240 * *4538230 * *4538220 * *4538210 * *4538200 *

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

- asp - phe - arg - ser - asp - gln - leu - gln - ala - thr - asn - gln - glu - thr - tyr - phe - met - met - arg - ile - met - leu - ser - leu - met - ala - gly -

- fMet - thr - ser - tyr - lys - pro - gln - thr - arg - lys - his - ile - ser -



sd-(12)-ir 4538231 Gap 4.0 bits

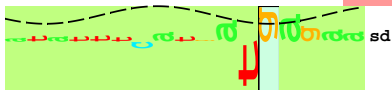
sd-ir 4538231 TRIP2c_fimB- total 10.8 bits

ir TRIP2c_fimB-

sd-(15)-ir 4538228 Gap 6.0 bits

sd-ir 4538228 TRIP2c_fimB- total 10.0 bits

ir TRIP2c_fimB-



sd-(7)-ir 4538219 Gap 3.7 bits

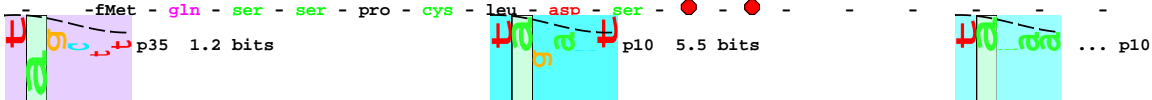
sd-ir 4538219 TRIP2c_fimB- total 8.3 bits

*4538190 * *4538180 * *4538170 * *4538160 * *4538150 * *4538140 * *4538130 * *4538120 *

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

- lys - his - fMet - gln - ser - ser - fMet - phe - arg - leu - leu - ile - asn - tyr - leu -

orf 14 codons



p35-(23)-p10 4538144 Gap 1.4 bits

... p35-(22)-p10 4538104 Gap

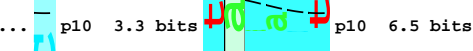
p35-p10 4538144 total 5.2 bits

p35 4.7 bits



p35-(24)-p10 4538122 Gap 2.4 bits
 p35-p10 4538122 total 4.6 bits
 ... p35-(21)-p10 4538109 Gap
 ... p35-p10 4538109 total 4.9
 ... p35-p10 4538104 total 8.1

* * * * *
 5' c a a a t a g t t a a a c t a a g a t c t t t t a g t t t t g a a g a c c a c c g c a a g t g t t c g t c t g g c t t c a c a t g g c a t c t t c c t c t t a g a 3'
 -fMet - lys - thr - thr - ala - ser - val - arg - leu - ala - ser - his - gly - ile - phe - leu - leu - glu -
 -fMet - phe - val - trp - leu - his - met - ala - ser - ser - ser -



p35-(22)-p10 4538104 Gap 2.3 bits
 p10 5.7 bits

p35-(21)-p10 4538109 Gap 3.3 bits
 p35-p10 4538109 total 4.9 bits
 p35-p10 4538104 total 8.1 bits

* * * * *
 5' a a a a g a t c g a c a t a t t t t g t g a c a c g a a t t g c a a a t c t 3'
 -fMet - thr - arg - ile - ala - asn -
 - lys - asp - arg - his - ile - leu - - - -fMet - gln - ile -