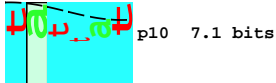
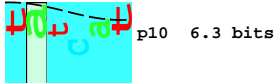
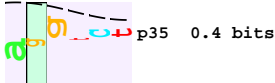
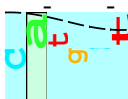


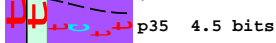
piece 1, NC_000913, gltA_sdhC-, config: linear, direction: -, begin: 754429, end: 753672

5' ^{*}agggtcttgggttttcaacatttctttatcagaaataacgcccacacatgctgttcttatttccctggggaactacggggcaag^{*}3'
 - arg - ser - leu - phe - phe - his - ile - ser - tyr - his - glu - ● - asn - asn - ala - his - met - leu - phe - leu - leu - phe - pro - gly - asp - tyr - gly - his - arg -
 - gly - leu - cys - phe - phe - thr - phe - leu - ile - met - ● - val - phe - val - phe - ser - his - phe - leu - ser - ●

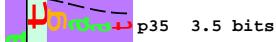
...-----] NC_000913.sdhC



} p35-(24)-p10 754404 Gap 2.4 bits
 p35-p10 754404 total 4.3 bits

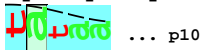
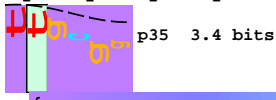


} p35-(23)-p10 754386 Gap 1.4 bits
 p35-p10 754386 total 5.5 bits



} p35-(25)-p10 754375 Gap 4.0 bits
 p35-p10 754375 total 6.5 bits

5' ^{*}agggttaaaccttctgttaacctggagacgtcgggattttcccttcctccgggtctgcttgcggggtcagacagcgttcctttctataa^{*}3'
 - gly - ● - fMet - arg - val - arg - gln - arg - pro - phe - tyr - asn -



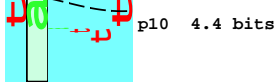
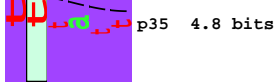
} p35-(24)-p10 754271 Gap 2.4 bits
 p35-p10 754271 total 5.0 bits

5' ^{*}ctggcgctcattgcaaaaacactgcttccagatgaggaaaacgacacagttacaacgctgggtggctcgggatttgcaagggtgttc^{*}3'
 - cys - ala - ser - cys - lys - thr - leu - leu - pro - fMet - arg - lys - arg - his - val - thr - thr - leu - gly - gly - ser - gly - leu - gln - gly - val - pro -
 - fMet - arg - lys - arg - his - val - thr - thr - leu - gly - gly - ser - gly - leu - gln - gly - val - pro -

... p10 4.1 bits

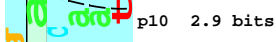
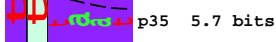
5' ^{*}ggagacctggcgaggcaggtataggctgttccacaaaatcattacaattaacctacatatagtttggctgggttttatacctgaaac^{*}3'
 - arg - arg - pro - gly - gly - ser - ile - gly - cys - ser - gln - asn - his - tyr - asn - ● - fMet - ser - gly - phe - ile - leu - asn -
 - gly - asp - leu - ala - ala - val - ● - glu - thr - trp - arg - gln - tyr - arg - leu - phe - thr - lys - ser - leu - gln - leu - thr - tyr - ile - ●

5' ^{*}agtgatccagggtacgatacaaacatttatttttaatttttaattcattcatttgaacaatcattccaacaaggtgttacaaca^{*}3'
 - ser - asp - pro - gly - his - asp - asn - asn - ile - tyr - leu - ile - phe - asn - his - leu - ile - ● - fMet - thr - ile - ile - gln - gln - ser - cys - tyr - lys - his -
 - fMet - ile - gln - val - thr - ile - thr - thr - phe - ile - ●



} p35-(21)-p10 754058 Gap 3.3 bits

} p35-p10 754058 total 5.9 bits



} ... p35-(24)-p10 754007 Gap
 } ... p35-p10 754007 total 8.3

{-----} p35-(23)-p10 754052 Gap 1.4 bits
 {-----} p35-p10 754052 total 7.1 bits
 p10 2.6 bits

{-----} p35-(26)-p10 754049 Gap 3.7 bits
 {-----} p35-p10 754049 total 4.5 bits

5' *attaccagggaagc*atataatgctgtaaaagttatgaaagtcgggtatctcactaagattaaacttatgttaacagtggtggaag 3'
 - leu - pro - gly - lys - ala - tyr - **asn** - ala - **fMet** - lys - ser - val - phe - his - leu - arg - leu - thr - **tyr** - val - thr - val - trp - lys -
 - **tyr** - **gln** - **glu** - lys - his - ile - met - arg - lys - ser - **tyr** - glu - val - gly - ile - ser - pro - lys - ile - **asn** - leu - **cys** - **asn** - ser - val - glu - val -

{-----} sd-(12)-ir 754004 Gap 4.0 bits
 {-----} p35-(24)-p10 754007 Gap 2.4 bits
 {-----} p35-p10 754007 total 8.3 bits

{-----} sd-ir 754004 gltA_sdhC- total 13.6 bits
 sd ir gltA_sdhC-

{-----} sd-(11)-ir 753991 Gap 3.0 bits
 {-----} sd-ir 753991 gltA_sdhC- total 6.3 bits

p10 8.4 bits

5' *tattgaccaaattc*attcgggacagttattagtggttagacaaggtttaataaattcgggattgctaagttacttgattcggcatttt 3'
 - **tyr** - - **fMet** - val - asp - lys - phe - **asn** - **asn** - ser - asp - **cys** - - - **fMet** - ile - arg - his - leu -
 - leu - thr - **asn** - ser - phe - gly - thr - val - ile - ser - gly - arg - **gln** - val - - - **fMet** - leu - ser - thr -

[###] orf 18 codons

p10 2.0 bits

[###] orf 36 codons

[###] orf 11 codons

... p10

sd ir gltA_sdhC-

p35 5.2 bits

p35 5.0 bits

{-----} sd-(11)-ir 753913 Gap 3.0 bits

{-----} p35-(22)-p10 753864 Gap 2.3 bits

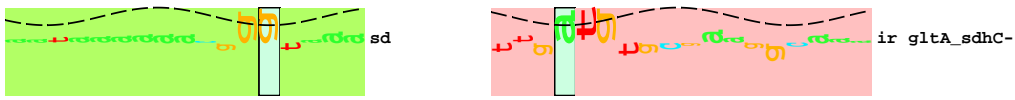
{-----} sd-ir 753913 gltA_sdhC- total 5.1 bits
 {-----} p35-(23)-p10 753917 Gap 1.4 bits
 {-----} p35-p10 753917 total 5.5 bits

{-----} p35-p10 753864 total 5.5 bits

5' *attcgtcatcaaatggatcctttacctgcaagcgccagagctctgtaccaggttttccctcttttcacagagcggcgagc* 3'
 - phe - val - ile - **asn** - gly - ser - phe - thr - **cys** - lys - arg - pro - glu - leu - **cys** - thr - **gln** - val - phe - pro - ser - phe - thr - glu - arg - arg - ala -
 - **fMet** - **asp** - pro - leu - pro - ala - **ser** - ala - **gln** - **ser** - **ser** - val - pro - **arg** - phe - **ser** - pro - leu - **ser** - **gln** - **ser** - gly - glu - pro -

p10 2.6 bits

5' *caaatataaaaaacgggtaaaagccagggtgatgtggaaggcaaatgtaagttccggcaggtcttacgcaataaaggcgctaaagg* 3'
 - lys - - **fMet** - met - **cys** - glu - gly - lys - phe - lys - phe - arg - **gln** - ser - **tyr** - ala - ile - arg - arg - -
 - **asn** - lys - lys - arg - val - lys - pro - gly -

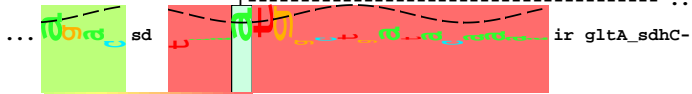


{-----} sd-(14)-ir 753753 Gap 4.9 bits

|-----| sd-ir 753753 gltA_sdhC- total 6.4 bits

*753700 * *753690 * *753680 *
 5' a g a c c t t a a a t g g c t g a t a c a a a a g c a a a 3'
 - - - - - fMet - ala - asp - thr - lys - ala -

... NC_000913.gltA



{-----} sd-(10)-ir 753691 Gap 2.7 bits
 {-----} sd-ir 753691 gltA_sdhC- total 12.1 bits

[###] orf 17 codons



... sd
 {- ... sd-(10)-ir 753691 Gap
 - ... sd-ir 753691 gltA_sdhC- t