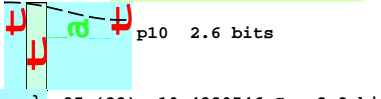


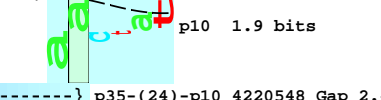
piece 1, NC_000913, arpA_iclR+, config: linear, direction: +, begin: 4220481, end: 4220846

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

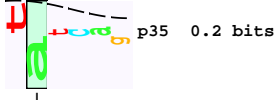
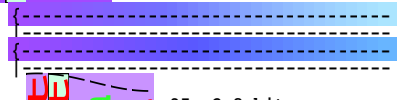
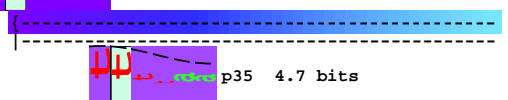
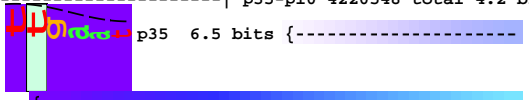
NC_000913.arpA



p35-(22)-p10 4220546 Gap 2.3 bits
p35-p10 4220546 total 5.1 bits



p35-(24)-p10 4220548 Gap 2.4 bits
p35-p10 4220548 total 4.2 bits



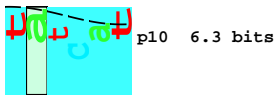
5' g a a a a a a a t t t a a t a t g a t t a c a a c t a a a g a a a t a t c a t a a a a t c g c t c a a t c t c a t a a t g c a g c c g t a a a a g t t t c g g t g g a 3'
- glu - lys - ile - - - - - met - ile - thr - thr - lys - glu - ile - ser - - - - - fMet - gln - pro - - - - - fMet - glu -

sd

ir arpA_iclR+ [###] orf 9 codons

p35

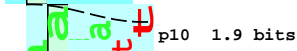
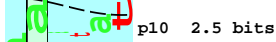
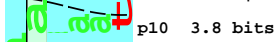
sd-(13)-ir 4220575 Gap 4.6 bits



p35-(25)-p10 4220665 Gap

sd-ir 4220575 arpA_iclR+ total 8.7 bits

p35-p10 4220665 total 5.0



p10 4.5 bits

p10 6.3 bits

p35-(24)-p10 4220575 Gap 2.4 bits
p35-(26)-p10 4220565 Gap 3.7 bits
p35-p10 4220565 total 6.7 bits

p10 6.4 bits

p35-(22)-p10 4220566 Gap 2.3 bits
p35-p10 4220566 total 4.3 bits
p35-(26)-p10 4220570 Gap 3.7 bits
p35-p10 4220570 total 5.4 bits

p35 5.7 bits

p35-(26)-p10 4220572 Gap 3.7 bits
p35-p10 4220572 total 5.4 bits
p35-p10 4220575 total 4.2 bits
p35-(22)-p10 4220592 Gap 2.3 bits
p35-p10 4220592 total 5.9 bits
p35-(25)-p10 4220595 Gap 4.0 bits
p35-p10 4220595 total 8.0 bits

5' * 4220650 * 4220660 * 4220670 * 4220680 * 4220690 * 4220700 * 4220710 * 4220720 *
-fMet - arg - ser - cys - asp - phe - val - asn - asn - fMet - val - fMet - leu - ser - fMet - lys - cys -
-fMet - arg - phe - cys - fMet - leu - ile - ile - lys - trp - phe - asp - val - fMet - met - phe - lys - asn - ala - glu - leu - ile - lys - val - cys - glu - val - tyr -

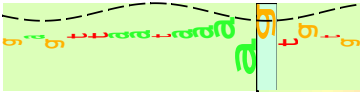
p35 4.4 bits

p10 4.6 bits

ir arpA_iclR+

... ir

p35-(25)-p10 4220665 Gap 4.0 bits p35 5.6 bits



sd ... ir

p35-p10 4220665 total 5.0 bits



sd-(9)-ir 4220720 Gap 2.3 bits

sd-ir 4220720 arpA_iclR+ total 5.5 bits

sd-(5)-ir 4220681 Gap 5.4 bits



sd-ir 4220681 arpA_iclR+ total 7.5 bits

sd-(11)-ir 4220724 Gap ... sd-ir 4220724 arpA_iclR+

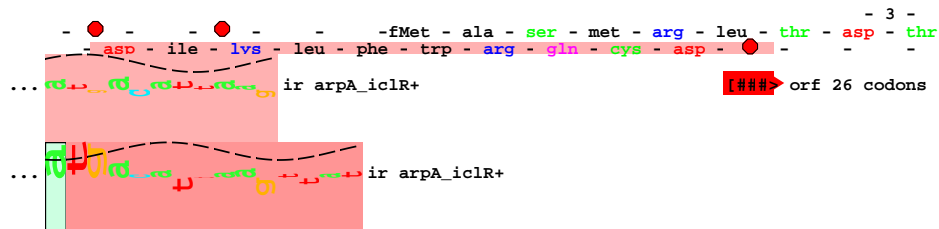
p10 2.5 bits

p35-(22)-p10 4220707 Gap 2.3 bits
p35-p10 4220707 total 5.8 bits

p10 1.3 bits

p35-(23)-p10 4220708 Gap 1.4 bits
p35-p10 4220708 total 5.4 bits

* 4220730 * 4220740 * 4220750 * 4220760 * 4220770 * 4220780 * 4220790 * 4220800 *
- met - thr - leu - ser - tyr - phe - gly - val - asn - ala - ile - asn - arg - his - pro - tyr - ser - ile - ala - thr - gln - val - - - - -



... } sd-(11)-ir 4220724 Gap 3.0 bits
 ... | sd-ir 4220724 arpA_iclR+ total 5.2 bits

