

piece 1, NC_000913, spy_astE+, config: linear, direction: +, begin: 1823620, end: 1823998

*1823620 * *1823630 * *1823640 * *1823650 * *1823660 * *1823670 * *1823680 * *1823690 * *1823700

5' ggcaacaaacagtgagtttaatttacgcataatttccttcccttcagttatttattacggcttcttaagtagcgtg3'

- gly - asn - lys - gln - cys - ser - fMet - - - - -

- ala - thr - asn - ser - ala - val - asn - leu - arg - ile - phe - tyr - ile - leu - pro - phe - ser - tyr - leu - leu - arg - leu - ser - - - - -

- gln - gln - thr - val - gln - leu - ile - tyr - ala - tyr - ser - ile - ser - phe - leu - ser - val - ile - tyr - tyr - gly - phe - leu - lys - - - - -

-----] NC_000913.spy

*1823710 * *1823720 * *1823730 * *1823740 * *1823750 * *1823760 * *1823770 * *1823780

5' ccggtgttgacgagatttaactttacttgacttttagcgttcaaatcagagcagcgaacgggtataaaacaatgaaagtggtataaaaaaac3'

- pro - cys - - - - -

-fMet - leu - thr - arg - leu - thr - leu - leu - thr - leu - ala - ser - ile - asn - gln - ser - asn - gly - lys - thr - met - lvs - val - - - - -

ir spy_astE+



sd(8)-ir 1823763 Gap 2.4 bits
sd-ir 1823763 spy_astE+ total 11.2 bits



sd(14)-ir 1823769 Gap 4.9 bits
sd-ir 1823769 spy_astE+ total 5.5 bits

*1823790 * *1823800 * *1823810 * *1823820 * *1823830 * *1823840 * *1823850 * *1823860

5' ttttgcgcacaattatggagaaaaaaagaaaaatttgatggagagtgatgagagagaatattacaacacgatgattttgcagagaga3'

-fMet - glu - lys - lys - arg - lys - phe - asp - gly - glu -fMet - met - arg - glu - tyr - tyr - asn - thr - met - ile - leu - gln - arg -

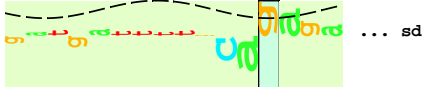
-fMet - arg - gln - leu - trp - arg - lys - lys - glu - asn - leu - met - glu - ser - asp - glu - arg - ile - leu - gln - his - asp - asp - phe - ala - glu - ile -

ir spy_astE+



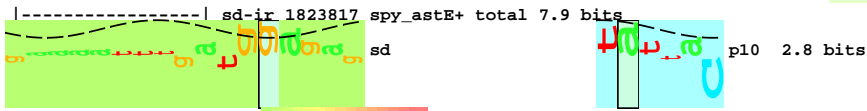
sd(6)-ir 1823865 Gap

sd(9)-ir 1823817 Gap 2.3 bits



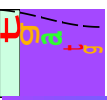
sd-ir 1823865 spy_astE+ total 5.1 bits

ir spy_astE+



sd(7)-ir 1823827 Gap 3.7 bits
sd-ir 1823827 spy_astE+ total 10.7 bits

p35 4.7 bits



p35-(22)-p10 1823837 Gap 2.3 bits
p35-p10 1823837 total 5.1 bits

*1823870 * *1823880 * *1823890 * *1823900 * *1823910 * *1823920 * *1823930 * *1823940

5' ttatgaagaactataccggatgactgggtgataaataaagcaaaataaccaggatttaattctgtatttaatttataaagaaagcaaa3'

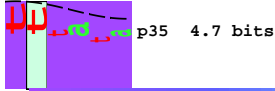
- leu - - - - -

- met - lvs - asn - lvs - thr - gly - asp - lys -fMet - thr - gly - asp - lys -fMet - ile - asn - lvs - ala - asn - asn - gln - asp -

ir spy_astE+



orfs 10 codons

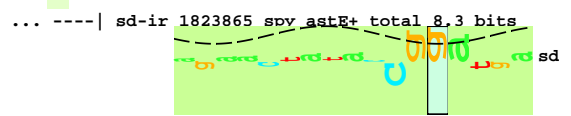


sd(6)-ir 1823865 Gap 4.3 bits orfs 23 codons

p35-(26)-p10 1823956 Gap

... sd [###> orf 14 codons {-----} sd-(8)-ir 1823889 Gap 2.4 bits

|----- ... p35-p10 1823956 total 4.7

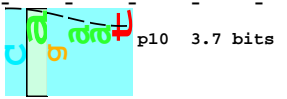


|-----| sd-ir 1823889 spy_astE+ total 8.0 bits

*1823950 *1823960 *1823970 *1823980 *1823990 *

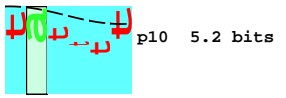
5' c t t a a t a c c c g c a g a a t g a t t t c t g c g g g t a a g t a t t a g c t t a t t t t t c g a g c a 3'

-fMet - ile - ser - ala - gly - lys - tyr -

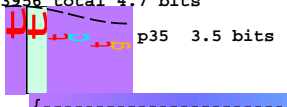


<----- ... NC_000913.astE

... {-----} p35-(26)-p10 1823956 Gap 3.7 bits



... -----| p35-p10 1823956 total 4.7 bits



{-----} p35-(22)-p10 1823986 Gap 2.3 bits

-----| p35-p10 1823986 total 6.3 bits