

piece 1, NC_000913, coaA_thrU+, config: linear, direction: +, begin: 4173020, end: 4173430

*4173020 * *4173030 * *4173040 * *4173050 * *4173060 * *4173070 * *4173080 * *4173090 * *4173100

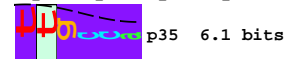
5' c g t c a t t a a c g t t t g c t c t t t t a t a c t c a t a a g c a t g t t t c t g g c g g t c a t a g c t c t a t c g g c a a a g c g a t a t t t g c c a t g 3'

- arg - his - fMet - leu - phe - tyr - thr - his - lys - his - val - ser - gly - gly - his - ser - ser - ile - gly - lys - ala - ile - phe - ala - met -

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

- ser - leu - thr - phe - ala - leu - leu - tyr - ser -

...-----] NC_000913.coaA



{-----} ... p35-(24)-p10 4173118 Gap
 {-----} ... p35-p10 4173118 total 6.3

* *4173110 * *4173120 * *4173130 * *4173140 * *4173150 * *4173160 * *4173170 * *4173180

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

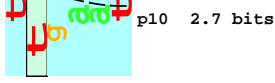
- ala - arg - his - ser - ser - val - glu - trp - val - asn - gly - gln - glu - gly - asn - thr - arg - trp - gly - gly - ile - ile - arg - lys - asn - leu - cys -

- arg - val - thr - val - leu - leu - asn - gly - leu - met - gly - arg - arg - val - thr - pro - asp - gly - glu - glu - fMet - lys - lys - lys - ser - leu - pro -

- fMet - gly - arg - asn - asn -



{-----} p35-(24)-p10 4173118 Gap 2.4 bits
 {-----} p35-p10 4173118 total 6.3 bits
 {-----} sd-(14)-ir 4173151 Gap 4.9 bits
 {-----} sd-ir 4173151 coaA_thrU+ total 6.0 bits



* *4173190 * *4173200 * *4173210 * *4173220 * *4173230 * *4173240 * *4173250 * *4173260

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

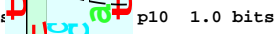
- gln - glu - ala - ile - val - glu - lys - gln - cys - asp - arg - tyr - ser - ile - fMet - val - thr - asp - ile - pro - ser - asp - lys - lys - asn - gly - leu - ala - gly - ala - his - cys -

- fMet - lys - ser - fMet - val - thr - asp - ile - pro - ser - asp - lys - lys - asn - gly - leu - ala - gly - ala - his - cys -

- gly - ser - tyr - arg - fMet -

[###] orf 16 codons

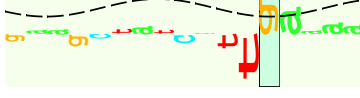
[###] orf 2 codons



[###] ... orf

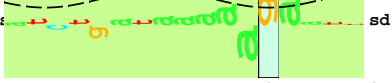


[###] orf 3 codons



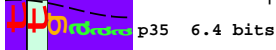
{-----} sd-(5)-ir 4173238 Gap 5.4 bits

{-----} sd-(8)-ir 4173205 Gap 2.4 bits



{-----} sd-ir 4173205 coaA_thrU+ total 5.2 bits
 {-----} sd-(10)-ir 4173207 Gap 2.7 bits
 {-----} sd-ir 4173207 coaA_thrU+ total 5.2 bits

{-----} sd-ir 4173238 coaA_thrU+ total 6.1 bits



{-----} p35-(22)-p10 4173218 Gap 2.3 bits
 {-----} p35-p10 4173218 total 5.1 bits

{-----} ... p35-(23)-p10 4173266 Gap
 {-----} ... p35-p10 4173266 total 4.9

* *4173270 * *4173280 * *4173290 * *4173300 * *4173310 * *4173320 * *4173330 * *4173340

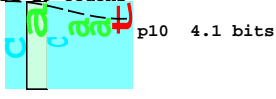
5' a g c a c a a t g a t g t t g a a a a g t g t g t a a t c t g c c c t c g g t c g g t t c t t c a t c g t g t c g c a t a a a a t g t g a c c a a t 3'

- ser - thr - met - met - leu - lys - lys - cys - ala - asn - leu - pro - ser - val - arg - leu - phe - leu - his - arg - val - ala - fMet - thr - asn -

- fMet - leu - ile - cys - pro - pro - phe - gly - cys - phe - phe - ile - val - ser - his - lys - met -

- fMet - cys -

... orf 19 codons



... -----} p35-(23)-p10 4173266 Gap 1.4 bits
... -----| p35-p10 4173266 total 4.9 bits

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



-----} p35-(23)-p10 4173392 Gap 1.4 bits
-----| p35-p10 4173392 total 11.3 bits

* * * * *
 5' g t a g g t 3'
 - - - - -
 - - - - -