


piece 1, NC\_000913, atoC\_atoD-, config: linear, direction: -, begin: 2321498, end: 2321254

5' <sup>\*</sup>gtccttgtaatg <sup>\*2321490</sup>tcatacaattttgtttttcattttttttatccctcttgcaatacaaccg <sup>\*2321480</sup>tgtgtgggtacagtcag <sup>\*2321470</sup>ggcaatagcaag <sup>\*2321460</sup>3' <sup>\*2321450</sup> <sup>\*2321440</sup> <sup>\*2321430</sup> <sup>\*2321420</sup>

- val - leu - **ser** - cys - **asn** - val - ile - **asn** - phe - val - phe - phe - phe - **tyr** - pro - **ser** - cys - ile - **his** - **arg** - cys - gly - **tyr** - **ser** - **gln** - ala - ile - ala - **arg** - leu - val - met - **ser** - **ser** - ile - leu - phe - **ser** - phe - phe - phe - ile - pro - leu - ala - **tyr** - **thr** - val - val - gly - **thr** - val - **arg** - **gln** -

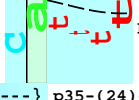
... -----] NC\_000913.atoD  p10 1.5 bits  ... sd

 p35 5.5 bits  p10 2.4 bits

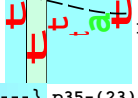
-----} p35-(21)-p10 2321473 Gap 3.3 bits  
-----} p35-p10 2321473 total 4.7 bits

 p35 2.4 bits  p10 1.2 bits

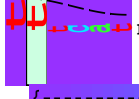
-----} p35-(22)-p10 2321472 Gap 2.3 bits  
-----} p35-p10 2321472 total 4.4 bits

 p10 2.3 bits

-----} p35-(24)-p10 2321470 Gap 2.4 bits  
-----} p35-p10 2321470 total 5.4 bits

 p10 3.2 bits

-----} p35-(23)-p10 2321466 Gap 1.4 bits  
-----} p35-p10 2321466 total 4.2 bits

 p35 5.3 bits

-----} p35-(23)-p10 2321450 Gap 1.4 bits  
-----} p35-p10 2321450 total 5.4 bits

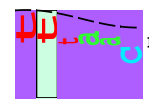
5' <sup>\*</sup>gggagtgccagaaatgagattatttgatttttaactaattggaatatgaaagggaataaaattggatggggatttataag <sup>\*2321410</sup> <sup>\*2321400</sup> <sup>\*2321390</sup> <sup>\*2321380</sup> <sup>\*2321370</sup> <sup>\*2321360</sup> <sup>\*2321350</sup> <sup>\*2321340</sup> 3'

- gly - ser - ala - **arg** - met - **arg** - leu - leu - **asp** - leu - val - ile - **met** - **asn** - met - **lys** - gly - **met** - **asp** - gly - **asp** - leu - **lys** - gly - val - pro - **glu** -

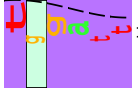
...  p10 2.2 bits  ... ir atoC\_atoD-  p10 2.2 bits  ... ir atoC\_atoD-

-----} sd-(10)-ir 2321405 Gap 2.7 bits

-----} ... sd-(14)-ir 2321332 Gap

-----} sd-ir 2321405 atoC\_atoD- total 10.3 bits  p35 4.1 bits

-----} sd-(10)-ir 2321351 Gap 2.7 bits

 p35 3.6 bits

-----} sd-ir 2321351 atoC\_atoD- total 8.8 bits

-----} p35-(23)-p10 2321371 Gap 1.4 bits  
-----} p35-p10 2321371 total 4.4 bits

-----} ... sd-ir 2321332 atoC\_atoD-  
-----} ... sd

p10 5.7 bits

p35-(24)-p10 2321358 Gap 2.4 bits  
p35-p10 2321358 total 7.4 bits

\*2321330 \*2321320 \*2321310 \*2321300 \*2321290 \*2321280 \*2321270 \*2321260

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

- glu - asn - glu - arg - leu - cys - arg - lys - leu - arg - thr - val - gln - ile - ser - ala - - -fMet - val - leu - tyr - ile - arg - arg - ile -

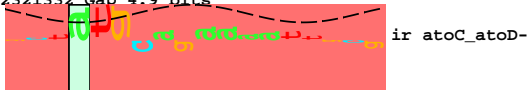
-fMet - ser - gly - tyr - ala - glu - asn - cys - ala - leu - cys - lys - phe - leu - his - ser - lys - phe - trp - cys - tyr - thr - ser - ala - gly - ser -

-fMet - lys - ile - ala - his - cys - ala - phe - cys - ile - ala - ser - phe - gly - val - ile - his - pro - pro - asp - arg -



### orf 22 codons <----- NC\_000913.atoc

sd-(14)-ir 2321332 Gap 4.9 bits



sd-(14)-ir 2321322 Gap 4.9 bits  
sd-ir 2321322 atoC\_atoD- total 13.0 bits

sd-ir 2321332 atoC\_atoD- total 5.3 bits



\*  
g a 3'

... NC\_000913.atoc