

piece 1, NC\_000913, gltX\_valU+, config: linear, direction: +, begin: 2518665, end: 2518972

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

- ala - trp - arg - glu - ala - ser - phe - asp - phe - his - glu - met - ala - leu - arg - leu - glu - arg - cys - arg - gln - pro - ala - asn - pro - gly - lys -

- leu - gly - ala - lys - arg - val - leu - ile - phe - met - lys - trp - pro - tyr - val - - - -fMet - pro - thr - thr - gly - lys - ser - trp - lys - asn -

- leu - ala - arg - ser - glu - phe - - - -

NC\_000913.gltX p10 3.1 bits

p35 5.7 bits

p35-(21)-p10 2518706 Gap 3.3 bits

p35-p10 2518706 total 5.5 bits

sd-(10)-ir 2518751 Gap

sd-ir 2518751 gltX\_valU+

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

- ile - lys - trp - ala - ile - phe - tyr - his - ser - arg - leu - ile - pro - gln - cys - ser - ser - gly - phe - tyr - leu - thr - his - tyr - cys - phe - arg -

-fMet - gly - asp - ile - leu - ser - leu - pro - pro - asp - ser - ser - met - - - -fMet - phe - ser - leu -

ir gltX\_valU+

### orf 14 codons

sd-(10)-ir 2518751 Gap 2.7 bits

sd-ir 2518751 gltX\_valU+ total 6.0 bits

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

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

- thr - asn - cys - ala - thr - arg - ser - val - leu - arg - ser - cys - leu - asn - leu - arg - arg - thr - asn - asn - phe - phe - arg - lys - cys - val -

p35 5.3 bits

p10 3.2 bits

p10 3.6 bits

p35-(22)-p10 2518887 Gap 2.3 bits

p35-p10 2518887 total 6.2 bits

p35 4.6 bits

p10 1.5 bits

p35-(24)-p10 2518889 Gap 2.4 bits

p35-p10 2518889 total 4.5 bits

p35-(26)-p10 2518900 Gap 3.7 bits

p35-p10 2518900 total 4.5 bits

p35 4.5 bits

... p35-(23)-p10 2518915 Gap

... p35-p10 2518915 total 5.3

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

-fMet - thr - his - phe - glu - leu - ser - leu - -fMet - asn - ala - thr - pro - his - his - ser - gly - gly - asp - - -

- asp - ser - phe - -fMet - -fMet - arg - leu - his - thr - ala - gly - val - ile - ser - ser - ala - gly -

p10 2.3 bits

p10 8.4 bits

p35 6.5 bits

p35-(22)-p10 2518931 Gap 2.3 bits

p35-p10 2518931 total 12.6 bits

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... -----} p35-(23)-p10 2518915 Gap 1.4 bits
... -----| p35-p10 2518915 total 5.3 bits
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