

piece 1, NC\_000913, ysgA\_udp-, config: linear, direction: -, begin: 4014483, end: 4014173

\*4014480 \* \*4014470 \* \*4014460 \* \*4014450 \* \*4014440 \* \*4014430 \* \*4014420 \* \*4014410 \*

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

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

- pro - arg - arg - glu - lys - his - gln - thr - trp - thr - tyr - thr - thr - pro - leu -

-----] NC\_000913.udp

\*4014400 \* \*4014390 \* \*4014380 \* \*4014370 \* \*4014360 \* \*4014350 \* \*4014340 \* \*4014330 \*

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

- pro - lys - gly - leu - thr - phe - phe - arg - asp - thr - his - his - his - asp - ala - asn - ala - leu - his - lys - phe - thr - his - gln - lys - fMet - met -

- fMet - ile - leu - ile - thr - met - thr - arg - met - arg - cys - ile - asn - leu - pro - thr - lys - ser - asp - ala -

sd ir ysgA\_udp-

sd-(13)-ir 4014364 Gap 4.6 bits  
sd-ir 4014364 ysgA\_udp- total 5.5 bits

\*4014320 \* \*4014310 \* \*4014300 \* \*4014290 \* \*4014280 \* \*4014270 \* \*4014260 \* \*4014250 \*

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

- gln - ile - thr - fMet - ile - cys - cys - met - leu -

- asn - his - ile - asn - his - pro - ser - phe - cys - arg - thr - ala - fMet - ser - arg - phe - arg - gln - cys - asp - leu - leu - his - ala - asp -

##### orf 28 codons

p35 0.6 bits

p35 3.8 bits

... p35-(22)-p10 4014237 Gap  
... p35-p10 4014237 total 4.2

... p35-(21)-p10 4014231 Gap  
... p35-p10 4014231 total 6.1

\*4014240 \* \*4014230 \* \*4014220 \* \*4014210 \* \*4014200 \* \*4014190 \* \*4014180 \*

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

- thr - ile - val - asn - ile - ala - gln - his - phe - tyr - lys - gly - thr - glu - asn - thr - met - ala - thr - thr - gln - gln -

- tyr - ser - fMet - arg - asn - ile - phe - ile - arg - val - arg - arg - ile - pro - trp - gln - gln - his - asn - asn -

p10 5.9 bits

sd

... p35-(22)-p10 4014237 Gap 2.3 bits

... p35-p10 4014237 total 4.2 bits

... p35-p10 4014231 total 6.1 bits

sd-(9)-ir 4014192 Gap 2.3 bits  
sd-ir 4014192 ysgA\_udp- total 13.2 bits

p35 3.8 bits

ir ysgA\_udp-

p10 4.9 bits

p35-(21)-p10 4014231 Gap 3.3 bits

p35-(21)-p10 4014195 Gap 3.3 bits  
p35-p10 4014195 total 5.4 bits