

piece 1, NC\_000913, adhE\_ychE-, config: linear, direction: -, begin: 1297850, end: 1297325

\*1297850 \* \*1297840 \* \*1297830 \* \*1297820 \* \*1297810 \* \*1297800 \* \*1297790 \* \*1297780 \* \*1297770

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

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

-----] NC\_000913.ychE

\*1297760 \* \*1297750 \* \*1297740 \* \*1297730 \* \*1297720 \* \*1297710 \* \*1297700 \* \*1297690

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

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

p35 0.8 bits p10 7.6 bits p35 4.7 bits

{-----} p35-(21)-p10 1297716 Gap 3.3 bits {-----} ... p35-(26)-p10 1297669 Gap 4.8 bits

{-----} p35-p10 1297716 total 5.1 bits {-----} ... p35-p10 1297669 total 4.8 bits

\*1297680 \* \*1297670 \* \*1297660 \* \*1297650 \* \*1297640 \* \*1297630 \* \*1297620 \* \*1297610

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

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

p10 3.8 bits sd ir adhE\_ychE-

{-----} p35-(26)-p10 1297669 Gap 3.7 bits {-----} p10 6.9 bits {-----} sd-(10)-ir 1297623 Gap 2.7 bits

p35-p10 1297669 total 4.8 bits p35 2.1 bits {-----} sd-ir 1297623 adhE\_ychE- total 6.0 bits ... ir

{-----} p35-(26)-p10 1297647 Gap 3.7 bits {-----} sd-(10)-ir 1297610 Gap 2.7 bits sd-ir 1297610 adhE\_ychE- total 7.1 bits

{-----} p35-p10 1297647 total 5.4 bits {-----} ... sd

\*1297600 \* \*1297590 \* \*1297580 \* \*1297570 \* \*1297560 \* \*1297550 \* \*1297540 \* \*1297530

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

-fMet - ser - asn - leu - ala - tyr - ala - thr -  
 - glu - arg - cys - glu - leu - cys - lys - phe - leu - ile - trp - ile - thr -  
 [###> orf 11 codons [###> orf 20 codons [###> orf 15 codons

ir adhE\_ychE-

{-----} sd-(9)-ir 1297591 Gap 2.3 bits

ir adhE\_ychE-

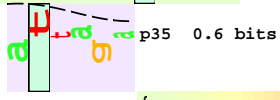
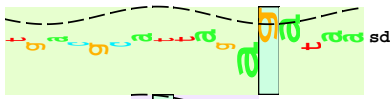
{-----} sd-ir 1297591 adhE\_ychE- total 6.0 bits

sd

\*1297520 \* \*1297510 \* \*1297500 \* \*1297490 \* \*1297480 \* \*1297470 \* \*1297460 \* \*1297450

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

-trp - lys -  
 - gly - ser - asp - ala - leu - glu - ile - ile - thr - leu - met - phe - lys - leu - phe -  
 -fMet - thr - his - -fMet - ser - val - ser - ala - ser - lys - leu -



### orf 6 codons

sd-(13)-ir 1297495 Gap 4.6 bits  
sd-ir 1297495 adhE\_ychE- total 5.2 bits



p35-(24)-p10 1297489 Gap 2.4 bits  
p35-p10 1297489 total 4.7 bits

5' \*1297440 \* \*1297430 \* \*1297420 \* \*1297410 \* \*1297400 \* \*1297390 \* \*1297380 \* \*1297370 \*  
T t t g a t t t t c a t a g g t t a a g c a a a t c a t c a c c g c a c t g a c t a t a c t c t c g t a t t c g a g c a g a t g a t t t a c t a a a a a g t t t 3'

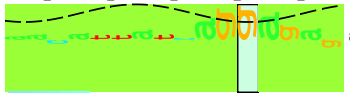
- leu - ile - phe - ile - gly - - - - - fMet - ile - tyr - - - - -  
p35 5.7 bits p10 2.6 bits p35 2.6 bits ... sd

p35-(21)-p10 1297422 Gap 3.3 bits  
p35-p10 1297422 total 5.0 bits

... p35-(22)-p10 1297361 Gap  
... p35-p10 1297361 total 4.5 bits

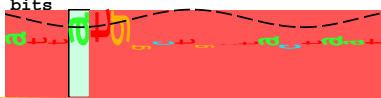
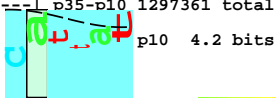
5' \*1297360 \* \*1297350 \* \*1297340 \* \*1297330 \*  
a a c a t t a t c a g g a g a g c a t t a t g g c t g t t a c t a a t g t c g c 3'

- fMet - ala - val - thr - val -



... NC\_000913.adhE

... p35-(22)-p10 1297361 Gap 2.3 bits  
... p35-p10 1297361 total 4.5 bits



sd-(9)-ir 1297344 Gap 2.3 bits  
sd-ir 1297344 adhE\_ychE- total 17.1 bits