

piece 1, NC\_000913, serT\_hyaA-, config: linear, direction: -, begin: 1031391, end: 1030916

\*1031390 \* \*1031380 \* \*1031370 \* \*1031360 \* \*1031350 \* \*1031340 \* \*1031330 \* \*1031320 \*

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

- gly - leu - val - lys - cys - phe - leu - val - ile - his - ile - ala - arg - leu - ser - ser - leu - arg - his - arg - gln - asp - thr - gly - arg - leu - trp -

- ala - trp -

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

-----] NC\_000913.hyaA

\*1031310 \* \*1031300 \* \*1031290 \* \*1031280 \* \*1031270 \* \*1031260 \* \*1031250 \* \*1031240 \* \*1031230

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

- ser - ala - ser - asp - val - pro - val - ala - arg - gln - thr - ile - ala - ser - arg - glu - met - leu - lys - thr - lys - ala - his - pro - ser - ala - leu -

- gly - lys - arg - arg - pro - cys - ser - lys - ala - asn - his - arg - phe - thr -

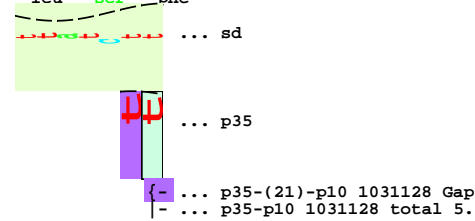
-fMet - arg - cys -

\*1031220 \* \*1031210 \* \*1031200 \* \*1031190 \* \*1031180 \* \*1031170 \* \*1031160 \* \*1031150

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

- ala - his - val - ala - arg - lys - tyr - cys - -fMet - lys - leu - leu - his - lys - thr - ile - gln - thr - val - trp - ile - tyr - leu -

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

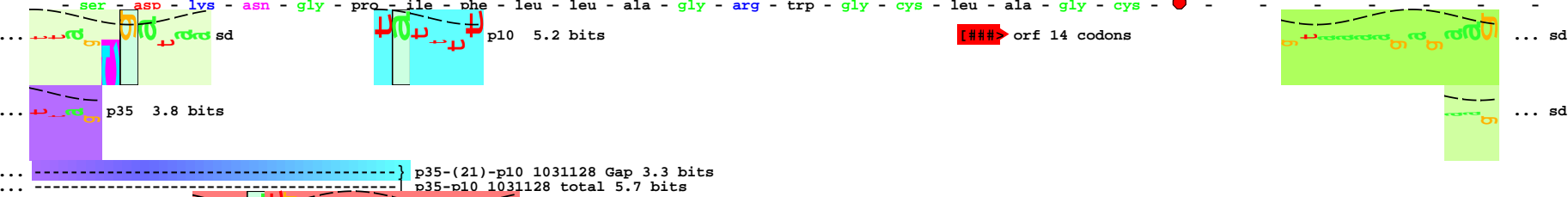


\*1031140 \* \*1031130 \* \*1031120 \* \*1031110 \* \*1031100 \* \*1031090 \* \*1031080 \* \*1031070

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

- leu - ala - ile - lys - met - asp - leu - phe - phe - phe - trp - pro - gly - gly - gly - asp - val - -fMet - gly - met - phe - ser - arg - leu - leu - asn - glu -

- ser - asp - lys - asn - gly - pro - ile - phe - leu - leu - ala - gly - arg - trp - gly - cys - leu - ala - gly - cys -



ir serT\_hyaA-

{-----} sd-(7)-ir 1031136 Gap 3.7 bits

sd-ir 1031136 serT\_hyaA- total 6.1 bits

\*1031060 \* \*1031050 \* \*1031040 \* \*1031030 \* \*1031020 \* \*1031010 \* \*1031000 \* \*1030990

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

-fMet - val - met - lys - -fMet - his - phe - trp - leu - phe - phe - arg - gln - thr - asn -

-fMet - ile - asn - leu - leu - leu - phe - his - ala - ile - asn - ala - leu - leu - ala - val - phe - gln - ala - asn - lys - gln -



ir serT\_hyaA-

{-----} sd-(6)-ir 1031061 Gap 4.3 bits

sd-ir 1031061 serT\_hyaA- total 8.7 bits

sd-(9)-ir 1031058 Gap 2.3 bits  
 sd-ir 1031058 serT\_hyaA- total 9.1 bits  
 ir serT\_hyaA-

sd-(12)-ir 1031055 Gap 4.0 bits  
 sd-ir 1031055 serT\_hyaA- total 11.0 bits  
 ir serT\_hyaA-

sd-(8)-ir 1031050 Gap 2.4 bits  
 sd-ir 1031050 serT\_hyaA- total 9.9 bits

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

p35 5.5 bits  
 [###> orf 34 codons

p10 5.9 bits

p35-(23)-p10 1030952 Gap 1.4 bits  
 p35-p10 1030952 total 10.0 bits