

- 1 -  
piece 1, NC\_000913, hemL\_clcA+, config: linear, direction: +, begin: 174853, end: 175126

5' \* \*174860 \* \*174870 \* \*174880 \* \*174890 \* \*174900 \* \*174910 \* \*174920 \* \*174930 3'  
- cys - ala - val - lys - ile - phe - arg - leu - thr - his - gly - gly - phe - leu - ile - arg - arg - lys - ser - glu - trp - leu - leu - phe - tyr - val - ile -  
- ala - leu - - - fMet - glu - gly - ser - - - fMet - ala - ala - ile - leu - cys - tyr - ser - met - leu - phe -  
- arg - cys - lys - asp - phe - gln - thr - tyr - ser - trp - arg - val - pro - asp - ser - fMet - ala - ala - ile - leu - cys - tyr - ser -

... ] NC\_000913.hemi sd sd ir hemL\_clcA+  
sd-(10)-ir 174912 Gap 2.7 bits  
sd-ir 174912 hemL\_clcA+ total 5.3 bits

5' \* \*174940 \* \*174950 \* \*174960 \* \*174970 \* \*174980 \* \*174990 \* \*175000 \* \*175010 3'  
- his - asn - lys - leu - asn - thr - arg - gln - thr - ser - gly - cys - leu - tyr - trp - cys - asn - pro - asp - phe - leu - glu - tyr - lys - ser - phe - val -  
- ile - thr - ser - fMet - gln - ser - fMet - cys -

[###] orf 9 codons

p35 3.5 bits

p10 4.1 bits

{- - - -} p35-(24)-p10 174996 Gap 2.4 bits

p35-p10 174996 total 5.2 bits

5' \* \*175020 \* \*175030 \* \*175040 \* \*175050 \* \*175060 \* \*175070 \* \*175080 \* \*175090 \* 3'  
- his - leu - lys - his - tyr - ala - leu - gln - arg - ile - phe - met - glu - arg - ala - ser - lys - met - pro - ser - ser - tyr - leu - tyr - asp - gln -  
- ile - - - fMet - arg - val - lys - cys - arg - his - leu - ile - cys - met - thr - asn - lys -

p35 6.4 bits

[###] orf 16 codons

ir hemL\_clcA+

... sd

p35 5.7 bits

{- - - -} sd-(7)-ir 175048 Gap 3.7 bits

{- - - -} sd-ir 175048 hemL\_clcA+ total 7.0 bits

p10 1.1 bits

{- - - -} ... p35-(22)-p10 175104 Gap

{- - - -} ... p35-p10 175104 total 4.1 bits

{- - - -} p35-(23)-p10 175042 Gap 1.4 bits

p35-p10 175042 total 6.1 bits

p10 2.4 bits

{- - - -} p35-(26)-p10 175045 Gap 3.7 bits

p35-p10 175045 total 5.2 bits

p35 0.5 bits

{- - - -} p35-(23)-p10 175063 Gap 1.4 bits

p35-p10 175063 total 6.7 bits

5' \*175100 \* \*175110 \* \*175120 \* 3'  
- fMet - ile - ile - gly - fMet - asp - glu - asn - fMet - lys - thr - asp - thr - pro -

... NC\_000913.clcA

... ir hemL\_clcA+

- 2 -

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... {-----} sd-(9)-ir 175107 Gap 2.3 bits
... -----} p35-(22)-p10 175104 Gap 2.3 bits
... -----| p35-p10 175104 total 4.1 bits
... |-----| sd-ir 175107 hemL_clcA+ total 6.4 bits
... |-----| p10 0.7 bits
```