

piece 1, NC\_000913, mdtM\_yjiP+, config: linear, direction: +, begin: 4566513, end: 4567040

\*4566520 \*4566530 \*4566540 \*4566550 \*4566560 \*4566570 \*4566580 \*4566590

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

- gly - gly - met - ala - gly - lys - lys - thr - trp - his - asn - lys - gln - leu - leu - val - arg - arg - thr - pro - thr - gly - lys - thr - lys - phe - asn -

- ala - ala - trp - arg - val - lys - lys - arg - gly - ile - thr - asn - asn - ser - leu - ser - gly - glu - pro - gln - arg - gly - lys - arg - asn - ser - ile -

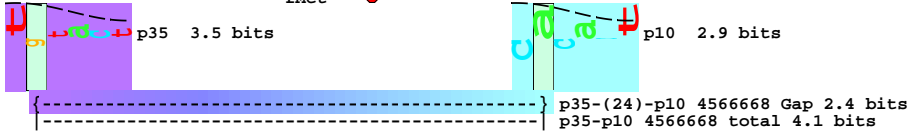
- arg - his - gly - gly - fMet - ala -

\*4566600 \*4566610 \*4566620 \*4566630 \*4566640 \*4566650 \*4566660 \*4566670

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

- thr - val - gly - asn - asp - glu - arg - gln - val - arg - arg - ala - thr - arg - leu - gln - met - tyr -

- pro - ser - val - met - thr - lys - gly - arg - fMet -

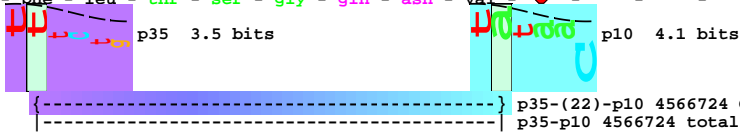


\*4566680 \*4566690 \*4566700 \*4566710 \*4566720 \*4566730 \*4566740 \*4566750

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

- fMet - asn - thr - gln - thr - glu - lys - tyr - phe - leu - thr - ser - gly - gln - asn - val -

- fMet - tyr - asn - asp - tyr - lys -



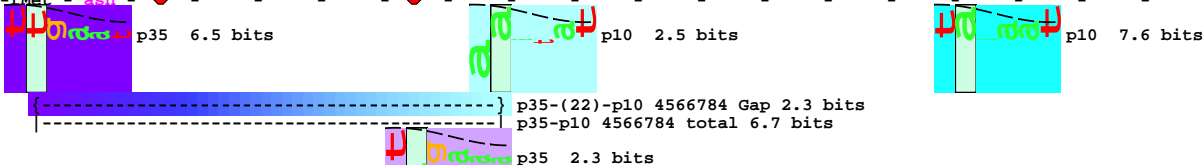
\*4566760 \*4566770 \*4566780 \*4566790 \*4566800 \*4566810 \*4566820 \*4566830

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

- fMet - met - gly - cys - ile - glu - asn - ile - his - leu - lys - cys - asn -

- fMet - arg - leu - ile - lys - arg - ala - arg - trp -

- fMet - asn - fMet - his - arg - lys - tyr - thr - pro - fMet -



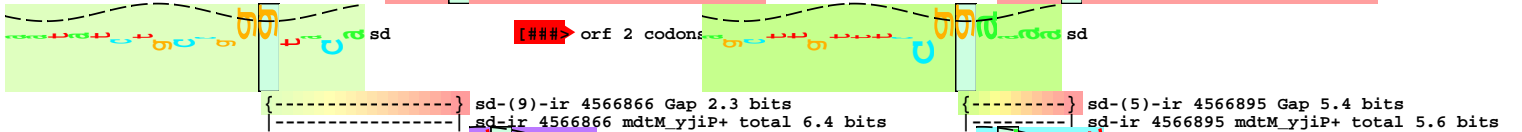
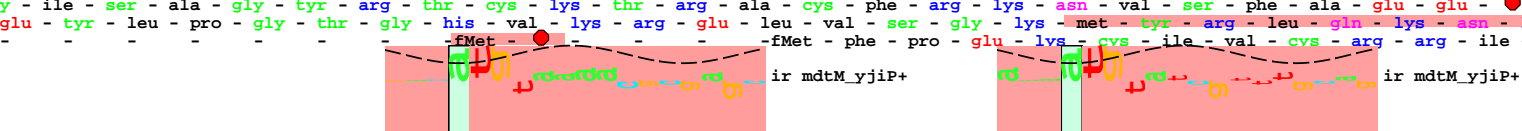
\*4566840 \*4566850 \*4566860 \*4566870 \*4566880 \*4566890 \*4566900 \*4566910

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

- glu - arg - gly - ile - ser - ala - gly - tyr - arg - thr - cys - lys - thr - arg - ala - cys - phe - arg - lys - asn - val - ser - phe - ala - glu - glu -

- lys - gly - glu - tyr - leu - pro - gly - thr - gly - his - val - lys - arg - glu - leu - val - ser - gly - lys - met - tyr - arg - leu - gln - lys - asn - lys -

- fMet - phe - pro - glu - lys - cys - ile - val - cys - arg - arg - ile - lys -



\*4566840 \*4566850 \*4566860 \*4566870 \*4566880 \*4566890 \*4566900 \*4566910

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

- glu - arg - gly - ile - ser - ala - gly - tyr - arg - thr - cys - lys - thr - arg - ala - cys - phe - arg - lys - asn - val - ser - phe - ala - glu - glu -

- lys - gly - glu - tyr - leu - pro - gly - thr - gly - his - val - lys - arg - glu - leu - val - ser - gly - lys - met - tyr - arg - leu - gln - lys - asn - lys -

- fMet - phe - pro - glu - lys - cys - ile - val - cys - arg - arg - ile - lys -

\*4566920 \*4566930 \*4566940 \*4566950 \*4566960 \*4566970 \*4566980 \*4566990

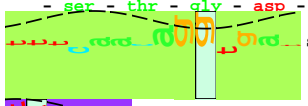
5' a a a t a g c c t g g a a a g c g c c t c g g g g a a t g g g a a a t t g c c g g g t g a g a a t g g t t t t g t t a g t c g c t a a a g t c a g g c c a t c t t 3'

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

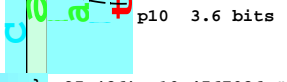
###> orf 30 codons

... sd

\*4567000 \* \*4567010 \* \*4567020 \* \*4567030 \* \*4567040  
 5' t t t c a a c a g g t g a t g g a t c g c c a t g a c a a a c t t c a c g a c c a g 3'  
 -fMet - met - asp - arg - his - asp - lys - leu - his - asp - gln -  
 -fMet - thr - asn - phe - thr - thr -  
 ser - thr - gly - asp - gly - ser - pro -



sd-(13)-ir 4567021 Gap 4.6 bits  
 sd-ir 4567021 mdtM\_yjiP+ total 12.4 bits



p35 5.2 bits  
 p10 3.6 bits  
 p35-(26)-p10 4567026 Gap 3.7 bits  
 p35-p10 4567026 total 5.1 bits