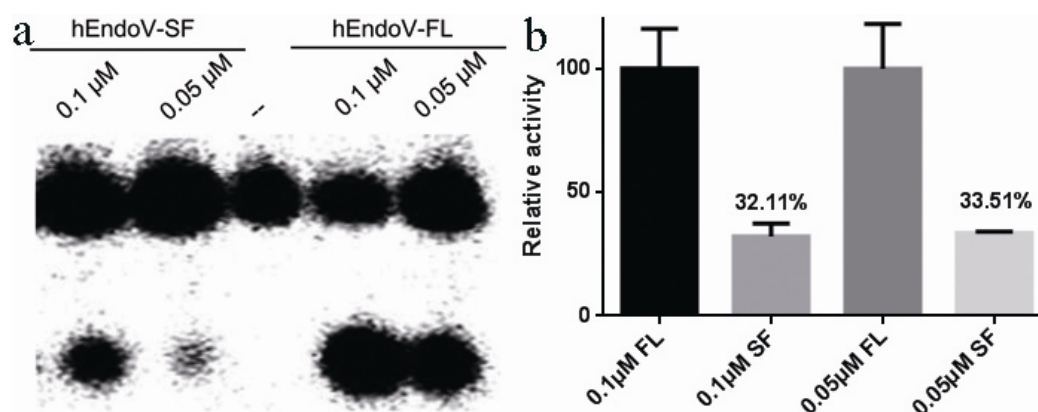# Acta Crystallographica Section D

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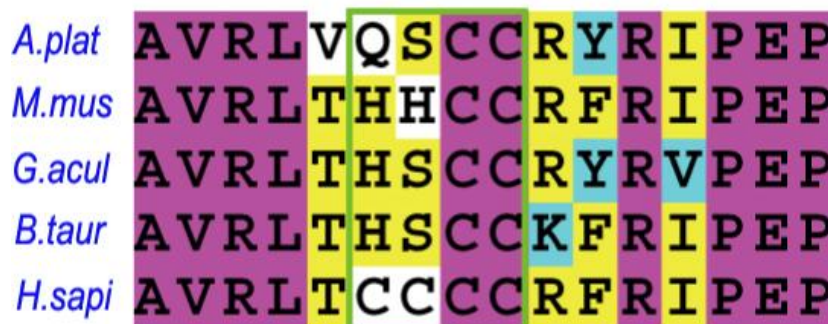
Supporting information for article:

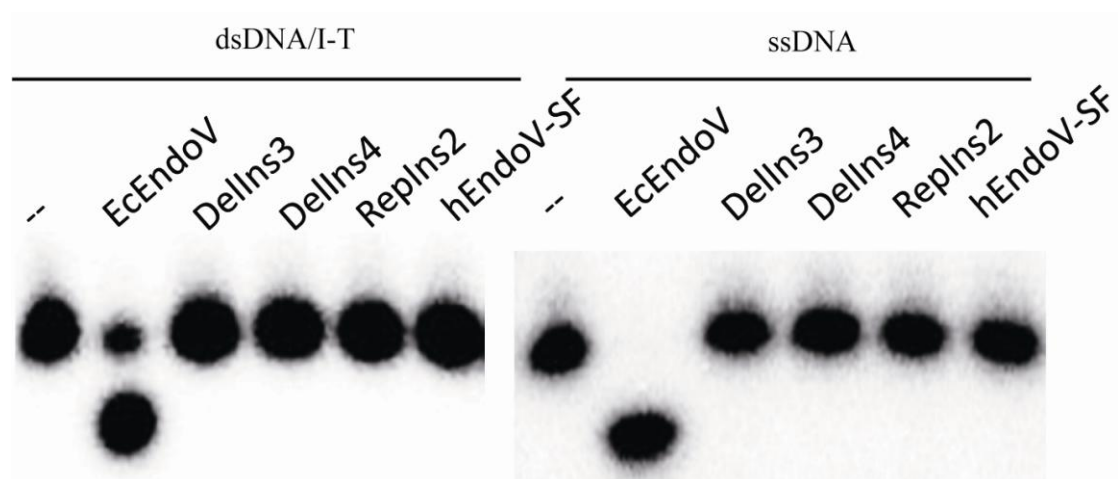**Structure of human endonuclease V as an inosine-specific ribonuclease**

Zhemin Zhang, Zhitai Hao, Zhong Wang, Qing Li and Wei Xie

Figure S1 The activity test of hEndoV-SF on ssRNA. Two concentrations (0.05 and 0.1 μ*M*) of the enzyme were chosen to carry out the assay. The activity of wild type at each concentration was regarded as 100% and the activity of hEndoV-SF at the same concentration was normalized with respect to that of wild type. Error bars represent SD calculated from two measurements. --, blank.

Figure S2 The conservation of the four-cysteine motif (Cys 225-Cys 228). An alignment of the four-cysteine motifs (boxed region) from human, *B. taurus*, *G. aculeatus, M. musculus* and *A. platyrhynchos* EndoVs.

Figure S3 The activity assay of deletion/substitution mutants on dsDNA/I-T or ssDNA substrates. --, blank.

Table S1   Cloning and QuikChange primers used in this study with mutated bases underlined.

Constructs	Sense Primers	Antisense Primers
hEndoV-FL	5'-GATAGGGCCATATGGCCCT	5'-AATATGGCGGCCGCACAAA
hEndoV-SF	5'-GATAGGGCCATATGACGCT	5'-AATATGGCGGCCGCCGACT
EcEndoV	5'-GATAGGGCCATATGGATCT	5'-TTGCACTTCTCGAGGGGCT
C225S	5'-GTGCGCCTGACTT<u>C</u>CTGCT	5'-CCTGCAGCAGCAG<u>G</u>AAGTC
C226S	5'-CGCCTGACTTGCT<u>C</u>CTGCT	5'-GAACCTGCAGCAG<u>G</u>AGCAA
C227S	5'-GACTTGCTGCT<u>C</u>CTGCAGG	5'-GGAACCTGCAG<u>G</u>AGCAGCA
C228S	5'-GCTGCTGCT<u>C</u>CAGGTTCCG-	5'-CGGAACCTG<u>G</u>AGCAGCAGC
DelIns1	5'-GCCTTCTCGGGTCTGCAGA	5'-CTCGGTGTCCCGGTCTACG
RepIns2	5'-G<u>AAC</u>AAGGGG<u>GGGAA</u>GTC	5'-GAAGGACACGTCAACGCCC
DelIns3	5'-CCCCAGGTCCTTCTTG-3'	5'-CTTCTCCCGCAGCTGC-3'
DelIns4	5'-GCCCTGCACAAGGAGAAG-	5'-CACCTGCAGAAGTTTCTTG