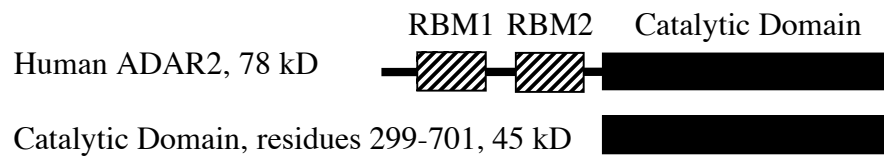


15 min at 30°C before adding 5 nM A37 labeled tRNA^{ala}. Reactions were completed as described above.

To observe editing *in vivo*, total RNA was prepared from the yeast S100 extracts (see above) and the tRNA was amplified by RT-PCR using gene specific primers. The PCR product was sequenced using a ³²P-labeled primer that hybridized to the non-template strand, and the SequenaseTM PCR product sequencing kit (USB, Cleveland, OH.) according to the manufacturers instructions. The sequencing products were separated on an 8% denaturing polyacrylamide gel. The gel was dried and exposed to a PhosphorImager plate overnight.

Supporting Figures

A.



B.

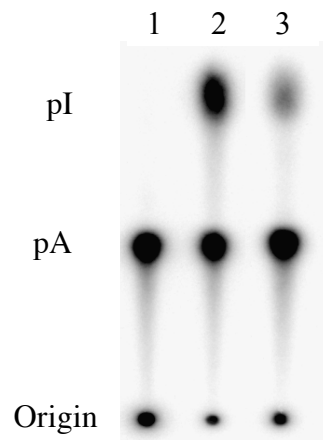


Figure S1. (A) Domain structure of hADAR2 and the catalytic domain construct used in this study. Striped rectangles, dsRBMs; filled rectangle, catalytic domain. (B) *In vitro* deamination assay. 10 nM ³²P-A-labeled dsRNA was incubated with 100 nM of full-