

Supporting Information S1. The benchmark dataset S constructed for identifying piRNA sequences and their functions. It is formed by three subsets: (1) S_{inst}^+ contains 709 piRNA samples having the function of instructing target mRNA deadenylation; (2) $S_{non-inst}^+$ contains 709 piRNA samples without the function of instructing target mRNA deadenylation; (3) S^- contains 1,418 non-piRNA samples. See Eq.1 and the relevant text for further explanation.

(1) List of 709 samples in S_{inst}^+

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(3) List of 1,418 samples in S^-

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