**Characterization of a recombinant thermotolerant** **argonaute protein as an endonuclease by broad guide utilization**

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**Fig. S1** The stability of varied guides at high temperature. The 5’-P ssDNA guide (**a**), 5’-OH ssDNA guide (**b**), and 5’-P ssRNA guide (**c**) were pre-incubated at 95 °C for different times, respectively, prior to the cleavage of ssDNA target at 80 °C for 30 min. M: ssDNA marker. nt: nucleotide.



**Fig. S2** Analysis of the relative amount of the 5’-P ssRNA guide in the cleavage reaction for ssDNA target at various temperatures for 30 min.