



## Cas14a Master Mix (Fluorescent)

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Cas14a is an endonuclease that, guided by the tracrRNA:crRNA (or sgRNA), specifically binds to and cleaves target ssDNA without the need for a PAM site. Similar to Cas12, Cas14a can also bind to target nucleic acids and activate its ssDNA trans-cleavage activity, making it suitable for molecular detection of target nucleic acids. However, unlike Cas12, Cas14a can only bind to ssDNA targets. Therefore, the amplified and enriched target nucleic acids must be treated with T7 exonuclease, and one of the amplification primers must be modified with phosphothioate to ensure that the T7 exonuclease cleaves only one strand, leaving the ssDNA target strand for Cas14a-mediated molecular detection.

Cas14a master mix contains Cas14a, reaction buffer, reporter molecule, positive control. Simply add the sample, such as the DNA amplicons and the corresponding crRNA. Cas14a will be activated. Reporter will be cleaved and fluorescent signal will be generated.

Catalog No.	519215
Size	
Product Category	Isothermal Amplification
Pack Size	96 rxns
Storage/Stability	-20°C/1 year
Shipping	Gel Packs