



LbCas12a Nuclease (mCCE-TX-2)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Storage	Store at -20°C for 1 year; For long-term storage, -80°C is recommended.
Product Type	Raw Material Enzyme
Buffer	LbCas12a Cleavage Buffer (10×)
Purity	~95%(verified by SDS-PAGE)
Application Note	It has a broad application prospect in the field of rapid nucleic acid detection.
Unit Size	100 pmol, 1000 pmol, 2000 pmol
Source	Lachnospiraceae bacterium ND2006
Enzymatic Activity	30 transU/pmol

ReactionSystem	Component	Sample Volume
	10× Cleavage Buffer	3 µL
	1 µM LbCas12a Nuclease	1 µL(33 nM)
	500 nM crRNA	2 µL(33 nM)
	2 µM ssDNA Reporter	6 µL(400 nM)
	1 µM DNA target	0.1 µL(3.5 nM)
	RNase-free ddH2O	Up to 30 µL

Reaction Condition	Using a real-time fluorescent quantitative PCR or constant temperature fluorescence signal amplification detection, 37°C reaction, once every 30 sec to collect fluorescence signal.
Molecular Weight	146.8 kDa