

SPECIFICATION SHEET

Product Name: Cas12 ssDNA Reporter (FAM/BHQ)**Catalog # CS12-57**

Product Description: Cas12 ssDNA reporter (FAM/BHQ) is a single-strand oligo DNA probe with a 6-FAM (Fluorescence) label at the 5' end and a BHQ (quencher) label at the 3' end. It is designed to be used in CRISPR-Cas12 activity assays. When combined with guide RNA and target DNA, Cas12a, Cas12b, and Cas12f enzymes exhibit activated trans-cleavage activity against ssDNA. Upon cleavage, the quenched fluorescence of the probe recovers, enabling enzyme activity analysis and target detection.

Storage and Stability: Store at 15-30°C for transportation process up to ten days but long-term storage should be at -20°C. After reconstitution, aliquot product into smaller quantities to avoid repeated handling and multiple freeze/thaw cycles.

Appearance : White to off-white lyophilized powder in dark tube

Reconstitution Protocol : Rehydrate in 100µL nuclease-free water to make a stock solution with a concentration of 100µM. Prior to use, dilute the stock solution with nuclease-free water to a working concentration of 10µM, and add it to the CRISPR cleavage reaction system according to the required concentrations.

Related Products This product can be used for experiments related to the following products:

Product Name	Catalog Number
AapCas12b, Active	C12B1-E311U
AsCas12a, Active	CS12A-E311H
Cas12 (LbCpf1), Active	C12CR-E241H
Cas12 (LbCpf1), Active	C12CR-E241G