Product Manual

BOSTON CELLRON

Cy3-Cas9 Nuclease

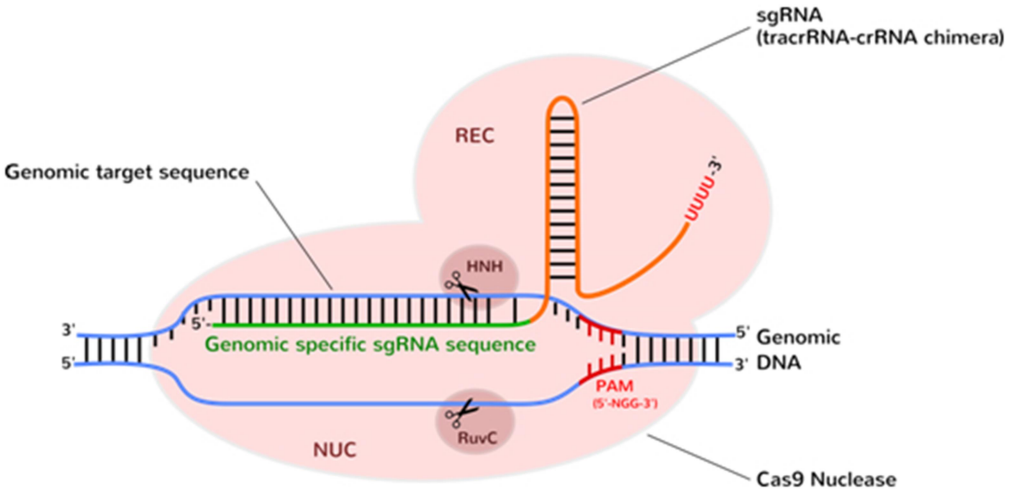
Catalog #	Quantity	Concentration
P1003	50 μl	3.2 μM

Alternative name Cy3-spCas9

Description

CRISPR/Cas systems are originally discovered in bacteria and archaea as an adaptive immune system to defense against viruses and plasmids in the enviroment. In this system, Cas9 (CRISPR associated protein 9) protein is guided by a non-conding RNA (gRNA) to cut the double-strand DNA at the desired genomic location. Then, endogenous DNA repairing processes are activated to heal the targeted DSB.

Cas9 protein is overexpressed in E.coli, and purified with N- and C-terminal NLS signal. Cy3 labeled Cas9 is a ready-to-injection/transfection reagent for genome engineering experiments, and enable for sorting and visualization of the transfected cells. The fluorescent signals can be detected by confocal microscope.



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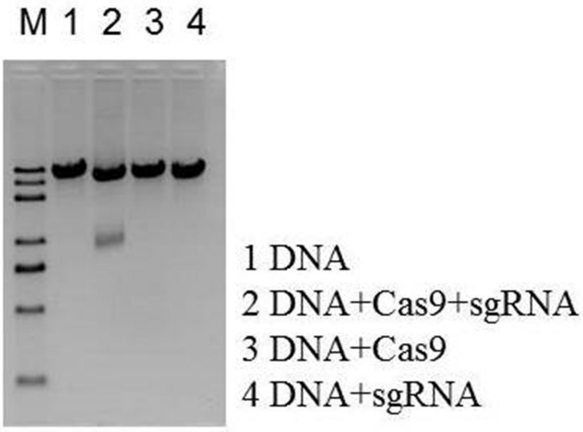
Expressed in	E.coli
In vitro assay	



Storage	Store all components at -20°C
Storage buffer	10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM DTT, 300 mM NaCl, and 50% (v/v) Glycero
10 x reaction buffer	200 mM HEPES, 50 mM MgCl2, 1 M NaCl, 1 mM EDTA, pH 6.5
Note	For laboratory research only. Not for clinical applications.

For technical questions, please email us at support@cellron.com or visit our website at www.cellron.com