

# Recombinant enzyme Cre

**Cat. No.** Cre-01    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**

There are several ways of inducing recombination in the CRE-LOXP system, which are based on the interaction of the Cre recombinase with the loxP site. When the loxP site is present in the gene and the Cre recombinase is present, the Cre recombinase will bind to the reverse repeat region at both ends of the loxP site to form a dimer. This dimer combines with other loxP site dimers to form a tetramer. Subsequently, the DNA sequence between loxP sites is cut by Cre recombinase, and the incision is reconnected by DNA ligase. The result of DNA recombination mainly depends on the direction and location of loxP site.

**Source** E.coli

**ProteinLength** 343 aa

**Molecular Mass** 38 kDa

**AA Sequence** 5"ATAACTTCGTATAGCATACATTATACGAAGTTAT3"or 3"TATTGAAGCATATCGTATGTAATATGCTTCAATA5"

## GENE INFORMATION

**Gene Name** cre creatininase [ *Halobacterium salinarum* R1 ]

**Official Symbol** Cre

**Synonyms** CRE; creatininase; EC 3.5.2.10;

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