RecA Protein, *E.coli*

CATALOG NO.: M1231-200

AMOUNT: 200 µg (100 µl)

CONCENTRATION: 2.0 mg/ml

FORM: Liquid

SOURCE: Recombinant *E.coli*

KIT COMPONENTS:

Components	Volume	Part No.
RecA, *E.coli* (2.0 mg/ml)	100 µl (200 µg)	M1231-200-1
10X RecA, *E.coli* Reaction Buffer	1.0 ml	M1231-200-2

DESCRIPTION: RecA from *E.coli* is a DNA-binding protein that is involved in homologous recombination in an ATP-dependent process. RecA binds to single-stranded DNA forming a nucleoprotein complex and promotes the strand exchange of single-strand DNA fragments with homologous duplex DNA. RecA also plays a role in post-replicative DNA repair mechanisms and in DNA repair and UV-induced mutagenesis. RecA protein is commonly used to study the molecular mechanisms involved in homologous recombination.

APPLICATIONS:

- Displacement loop mutagenesis
- Targeted DNA cleavage
- Visualization of DNA with electron microscopy
- Library screening with RecA coated probes

EZYME UNIT DEFINITION: One unit is defined as the amount of enzyme which will completely degrade 1µg of pBR322 DNA in 10 mins at 37°C. Complete degradation is defined as the reduction of the majority of DNA fragments

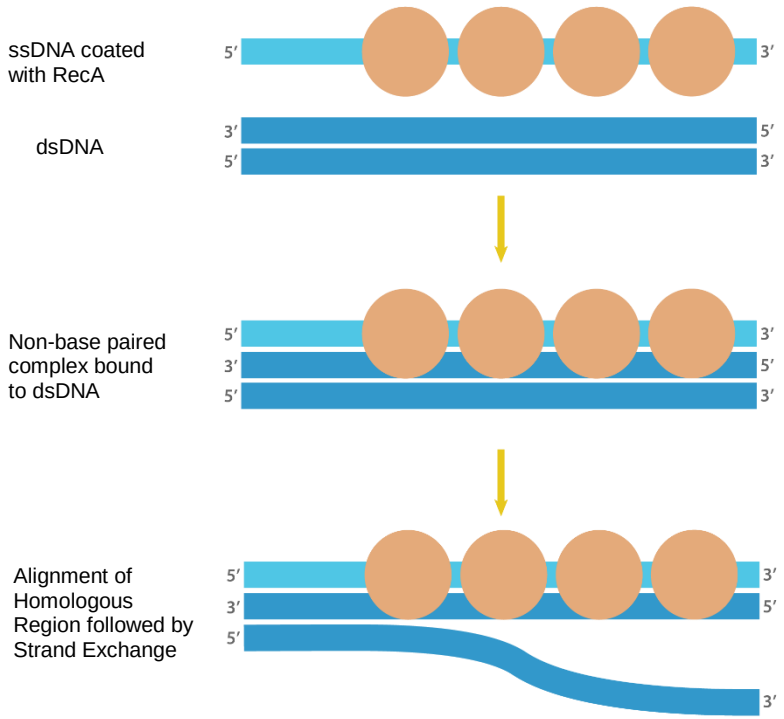
ENZYME STORAGE BUFFER: 10 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, and 50% (v/v) Glycerol

STORAGE CONDITIONS: Store at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for one year from the date of shipping when stored and handled properly.

10X RECA, E. COLI REACTION BUFFER COMPONENTS: 700 mM Tris-HCl, 100 mM $MgCl_2$, 50 mM DTT pH 7.5.

REACTION CONDITIONS: Usage concentration 2 mg/ml. *Note: Triple helix formation requires ATP (not provided).*

HEAT INACTIVATION: 65°C for 20 minutes



RELATED PRODUCTS:

- T4 Gene 32 Protein (Cat# M1232-100)

FOR RESEARCH USE ONLY! Not to be used on humans.

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