



For research use only

ISO9001

## tRec Protein

Product	Quantity	Cat. No.	Remarks
tRec Protein	200 $\mu$ g	EBT-3035	5 $\mu$ g / $\mu$ l

### Description

tRecA protein is necessary for genetic recombination events of thermostable bacteria, *Thermus thermophilus*. tRecA promotes the strand exchange of single-strand DNA fragments with homologous duplex DNA. The reaction has three distinct steps: (1) RecA polymerizes on the single-strand DNA, (2) the nucleoprotein filament binds the duplex DNA and searches for a homologous region, (3) the strands are exchanged. tRecA is purified from *E. coli* strain carrying an overexpressed tRecA gene. tRecA is thermostable protein and can be applied to PCR reaction to improve sequence specificity.

### Concentration & Storage Condition

5  $\mu$ g /  $\mu$ l, Store at -20°C.

### Storage Buffer

20 mM Tris-HCl, pH 7.5, 1 mM DTT, 0.1 mM EDTA and 50% glycerol.

### QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.



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