

## 32-9125: Recombinant E.coli RNA-splicing ligase RtcB

**Alternative Name :** 3'-phosphate/5'-hydroxy nucleic acid ligase; rtcB; yhgL

### Description

Source : E. coli;

RNA-splicing ligase RtcB is a member of RtcB family. It is a GTP-dependent RNA ligase that is involved in tRNA splicing and RNA repair. RtcB rejoins broken stem-loops of tRNA with 2',3'-cyclic-phosphate or 3'-phosphate ends to RNA with 5'-hydroxy ends. RtcB can also act as a DNA ligase in case of DNA damage by splicing 'dirty' DNA breaks, characterized by 3'-phosphate (or cyclic-phosphate) and 5'-hydroxy ends that cannot be sealed by classical DNA ligases.

### Product Info

**Amount :** 500 µg / 50 µg

**Content :** Supplied as a 0.2 um filtered solution of 2umM HEPES, 30umM NaCl,10%glycerol, umM DTT,0.umM EDTA,pH7.5.

**Amino Acid :** Recombinant E.coli RNA-splicing ligase RtcB is produced by E.coli. The target gene encoding M1-G408 is expressed.