

## Product datasheet for **TP724706**

### Escherichia coli Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant E.coli RNA-splicing ligase RtcB
Species:	Escherichia coli
Expression cDNA Clone or AA Sequence:	M1-G408
Buffer:	Supplied as a 0.2 um filtered solution of 20mM HEPES, 300mM NaCl, 10% glycerol, 2mM DTT, 0.1mM EDTA, pH 7.5.
Note:	Recombinant E.coli RNA-splicing ligase RtcB is produced by E.coli. The target gene encoding M1-G408 is expressed.
Stability:	12 months from date of despatch
Summary:	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.



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