

OriGene Technologies, Inc.

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Product datasheet for RC224802L3V

Topoisomerase II beta (TOP2B) (NM_001068) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Topoisomerase II beta (TOP2B) (NM_001068) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Topoisomerase II beta
Synonyms:	top2beta; TOPIIB
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001068
ORF Size:	4863 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224802).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<u>NM 001068.3</u> , <u>NP 001059.2</u>
RefSeq Size:	5189 bp
RefSeq ORF:	4866 bp
Locus ID:	7155
UniProt ID:	<u>Q02880</u>
Cytogenetics:	3p24.2
Domains:	DNA_gyraseB, DNA_topoisoIV, HATPase_c
Protein Families:	Druggable Genome



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MW:	182.5 kDa
Gene Summary:	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, beta, is localized to chromosome 3 and the alpha form is localized to chromosome 17. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]

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