

Product datasheet for **RC223204L4V**

TOP3B (NM_003935) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	TOP3B (NM_003935) Human Tagged ORF Clone Lentiviral Particle
Symbol:	TOP3B
Synonyms:	TOP3B1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_003935
ORF Size:	2586 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC223204).
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. More info
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:	NM_003935.3
RefSeq Size:	3124 bp
RefSeq ORF:	2589 bp
Locus ID:	8940
UniProt ID:	O95985
Cytogenetics:	22q11.22
Domains:	Topoisom_bac, TOP1Bc, TOP1Ac, TOPRIM, Toprim
Protein Pathways:	Homologous recombination



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MW: 96.5 kDa

Gene Summary: This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus relaxing the supercoils and altering the topology of DNA. The enzyme interacts with DNA helicase SGS1 and plays a role in DNA recombination, cellular aging and maintenance of genome stability. Low expression of this gene may be related to higher survival rates in breast cancer patients. This gene has a pseudogene on chromosome 22. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Aug 2013]