

## Product datasheet for **RC208236L4V**

### Topoisomerase III alpha (TOP3A) (NM\_004618) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Topoisomerase III alpha (TOP3A) (NM_004618) Human Tagged ORF Clone Lentiviral Particle
Symbol:	TOP3A
Synonyms:	MGRISCE2; PEOB5; TOP3; ZGRF7
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004618
ORF Size:	3003 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208236).
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. <a href="#">More info</a>
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:	<a href="#">NM_004618.3</a>
RefSeq Size:	4116 bp
RefSeq ORF:	3006 bp
Locus ID:	7156
UniProt ID:	<a href="#">Q13472</a>
Cytogenetics:	17p11.2
Domains:	Topoisom_bac, zf-CCHC, TOP1Bc, TOP1Ac, TOPRIM, Toprim
Protein Families:	Druggable Genome



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**Protein Pathways:** Homologous recombination

**MW:** 112.2 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 reducing the number of supercoils and altering the topology of DNA. This enzyme forms a complex with BLM which functions in the regulation of recombination in somatic cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]