Product datasheet for MR212017L4V

Topbp1 (NM_176979) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Topbp1 (NM_176979) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Topbp1
Synonyms:	1110031N14Rik; 2810429C13Rik; AI256758; D430026L04Rik; mKIAA0259
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_176979
ORF Size:	4545 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR212017).
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_176979.5, NP_795953.2
RefSeq Size:	5112 bp
RefSeq ORF:	4548 bp
Locus ID:	235559
UniProt ID:	Q6ZQF0
Cytogenetics:	9 F1

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Gene Summary:
Required for DNA replication (By similarity). Plays a role in the rescue of stalled replication forks and checkpoint control (PubMed:14718568). Binds double-stranded DNA breaks and nicks as well as single-stranded DNA (By similarity). Recruits the SWI/SNF chromatin remodeling complex to E2F1-responsive promoters. Down-regulates E2F1 activity and inhibits E2F1-dependent apoptosis during G1/S transition and after DNA damage (By similarity). Induces a large increase in the kinase activity of ATR (By similarity).[UniProtKB/Swiss-Prot Function]