

Product datasheet for **RC208669L2V**

alpha Tubulin (TUBA1A) (NM_006009) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	alpha Tubulin (TUBA1A) (NM_006009) Human Tagged ORF Clone Lentiviral Particle
Symbol:	alpha Tubulin
Synonyms:	B-ALPHA-1; LIS3; TUBA3
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_006009
ORF Size:	1353 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208669).
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_006009.2
RefSeq Size:	1930 bp
RefSeq ORF:	1356 bp
Locus ID:	7846
UniProt ID:	Q71U36
Cytogenetics:	12q13.12
Domains:	tubulin
Protein Families:	Druggable Genome



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Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

MW: 50.1 kDa

Gene Summary: Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulins. The genes encoding these microtubule constituents belong to the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes, which are highly conserved among species. This gene encodes alpha tubulin and is highly similar to the mouse and rat Tuba1 genes. Northern blot studies have shown that the gene expression is predominantly found in morphologically differentiated neurologic cells. This gene is one of three alpha-tubulin genes in a cluster on chromosome 12q. Mutations in this gene cause lissencephaly type 3 (LIS3) - a neurological condition characterized by microcephaly, intellectual disability, and early-onset epilepsy caused by defective neuronal migration. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2017]