

## Product datasheet for **RC204072L4V**

### alpha Tubulin (TUBA3C) (NM\_079836) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	alpha Tubulin (TUBA3C) (NM_079836) Human Tagged ORF Clone Lentiviral Particle
Symbol:	alpha Tubulin
Synonyms:	bA408E5.3; TUBA2; tubulin, alpha 2; tubulin, alpha 3c
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_079836
ORF Size:	1254 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204072).
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_079836.1</a> , <a href="#">NP_524575.1</a>
RefSeq Size:	1408 bp
RefSeq ORF:	1256 bp
Locus ID:	7278
Cytogenetics:	13q12.11
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Gap junction, Pathogenic Escherichia coli infection
MW:	46.1 kDa


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**Gene Summary:**

Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulin. The genes encoding these microtubule constituents are part of 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 and they are highly conserved among and between species. This gene is an alpha tubulin gene that encodes a protein 99% identical to the mouse testis-specific Tuba3 and Tuba7 gene products. This gene is located in the 13q11 region, which is associated with the genetic diseases Clouston hidrotic ectodermal dysplasia and Kabuki syndrome. [provided by RefSeq, Jul 2008]