

## Product datasheet for **RC219169L4V**

### CHIT1 (NM\_003465) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	CHIT1 (NM_003465) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CHIT1
Synonyms:	CHI3; CHIT; CHITD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_003465
ORF Size:	1398 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC219169).
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_003465.1</a>
RefSeq Size:	1633 bp
RefSeq ORF:	1401 bp
Locus ID:	1118
UniProt ID:	<a href="#">Q13231</a>
Cytogenetics:	1q32.1
Domains:	Glyco_18, CBM_14
Protein Families:	Secreted Protein, Transmembrane



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**Protein Pathways:** Amino sugar and nucleotide sugar metabolism

**MW:** 51.5 kDa

**Gene Summary:** Chitotriosidase is secreted by activated human macrophages and is markedly elevated in plasma of Gaucher disease patients. The expression of chitotriosidase occurs only at a late stage of differentiation of monocytes to activated macrophages in culture. Human macrophages can synthesize a functional chitotriosidase, a highly conserved enzyme with a strongly regulated expression. This enzyme may play a role in the degradation of chitin-containing pathogens. Several alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jan 2012]