

## Product datasheet for **RC218441L4V**

### NSMase2 (SMPD3) (NM\_018667) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	NSMase2 (SMPD3) (NM_018667) Human Tagged ORF Clone Lentiviral Particle
Symbol:	NSMase2
Synonyms:	NSMASE2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_018667
ORF Size:	1965 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218441).
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_018667.2</a> , <a href="#">NP_061137.1</a>
RefSeq Size:	5284 bp
RefSeq ORF:	1968 bp
Locus ID:	55512
UniProt ID:	<a href="#">Q9NY59</a>
Cytogenetics:	16q22.1
Domains:	Exo_endo_phos
Protein Families:	Transmembrane



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**Protein Pathways:** Metabolic pathways, Sphingolipid metabolism

**MW:** 70.9 kDa

**Gene Summary:** Catalyzes the hydrolysis of sphingomyelin to form ceramide and phosphocholine. Ceramide mediates numerous cellular functions, such as apoptosis and growth arrest, and is capable of regulating these 2 cellular events independently. Also hydrolyzes sphingosylphosphocholine. Regulates the cell cycle by acting as a growth suppressor in confluent cells. Probably acts as a regulator of postnatal development and participates in bone and dentin mineralization.  
[UniProtKB/Swiss-Prot Function]