

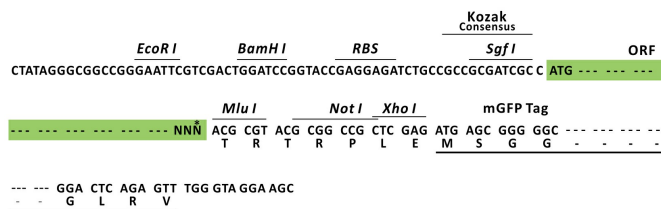
Product datasheet for RC218441L4

NSMase2 (SMPD3) (NM_018667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSMase2 (SMPD3) (NM_018667) Human Tagged ORF Clone
Tag:	mGFP
Symbol:	SMPD3
Synonyms:	NSMASE2
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
Cell Selection:	Puromycin
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218441).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF.

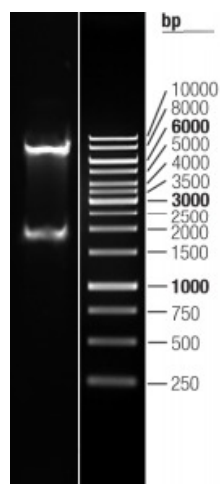
ACCN:	NM_018667
ORF Size:	1965 bp



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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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_018667.2 , NP_061137.1
RefSeq Size:	5284 bp
RefSeq ORF:	1968 bp
Locus ID:	55512
UniProt ID:	Q9NY59
Cytogenetics:	16q22.1
Domains:	Exo_endo_phos
Protein Families:	Transmembrane
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]

Product images:



Double digestion of RC218441L4 using SgfI and MluI