

Product datasheet for **MR209795L4V**

Smpd3 (NM_021491) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Smpd3 (NM_021491) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Smpd3
Synonyms:	4631433G07Rik; AI427456; AW537966; fro; nSMase2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_021491
ORF Size:	1965 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR209795).
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_021491.3
RefSeq Size:	5148 bp
RefSeq ORF:	1968 bp
Locus ID:	58994
UniProt ID:	Q9JY3
Cytogenetics:	8 D3



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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. Acts as a regulator of postnatal development and participates in bone and dentin mineralization. Overexpression enhances cell death, suggesting that it may be involved in apoptosis control. [UniProtKB/Swiss-Prot Function]