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Product datasheet for RC230482L3V

SMPD4 (NM_001171083) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	SMPD4 (NM_001171083) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SMPD4
Synonyms:	NEDMABA; NEDMEBA; NET13; NSMASE-3; NSMASE3; SKNY
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001171083
ORF Size:	2292 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC230482).`
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_001171083.2, NP_001164554.1
RefSeq Size:	3614 bp
RefSeq ORF:	2295 bp
Locus ID:	55627
UniProt ID:	Q9NXE4
Cytogenetics:	2q21.1
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism

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MW: 86.2 kDa

Gene Summary: The protein encoded by this gene is a sphingomyelinase that catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide. This gene is activated by DNA damage, cellular stress, and tumor necrosis factor, but it is downregulated by wild-type p53. The encoded protein localizes to the endoplasmic reticulum and Golgi network. [provided by RefSeq, Mar 2017]