

Product datasheet for **RN204041**

Smpd2 (NM_031360) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpd2 (NM_031360) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Smpd2
Synonyms:	nSMase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN204041 representing NM_031360
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCACAACTTTTCTCTGCGGTGAGGGTTTTCAACCTCAACTGCTGGGACATCCCCTACCTAAGCA
 AGCATAGGGCCGACCGCATGAAGCGCTTGGGAGACTTTCTGAACTTGGAGAGCTTTGACCTGGCTCTGCT
 GGAGGAGGTGGAGTGAGCAGGACTTCCAGTACTTAAAGCAAAAGCTATCGCTCACCTACCCGGATGCA
 CACTACTTCAGAAGCGGAATCATTGGCAGTGGCCTCTGTGTCTCCAGACACCCAATCCAGGAAATTG
 TCCAGCACGTCTACTCTCAATGGTTACCCTACAAGTCTATCATGGAGACTGGTTCTGTGGGAAGGC
 TGTGGGGTCTGGTCTCCATTAAGCGGACTGGTCTCAACGCCTACGTGACCCATCTGCACGCTGAG
 TACAGCCGGCAGAAGGATATCTACTTCGCACACCGTGTGGCCCAAGCTTGGGAACTGGCCAGTTTATCC
 ACCACACATCCAAGAAAGCAAAATGTGGTCTGTGTGCGGGGATCTCAACATGCACCCCAAGACCTGGG
 CTGCTGCCTACTGAAAGAGTGGACGGGGCTCCGTGATGCCTTTGTGAGACCGAGGACTTAAAGGGCTCA
 GAGGACGGCTGTACCATGGTACCAAGAACTGCTACGTACGCCAGCAGGACCTGGGGCCGTTTCCCTTTG
 GCGTCCGTATCGACTACGTGCTTACAAGGCAGTCTCTGGCTTCCACATCTGCTGTAAGACTCTGAAAAC
 CACTACGGGCTGTGACCCCCACAATGGCACCCCTTCTCTGACCAGAGGCCCTCATGGCTACTTTGTGT
 GTGAAGCACAGCCCCCTCAGGAAGACCCTTGCTCTGCCATGGATCAGCGGAAAGGTCAGCATTGATCA
 GCGCGCTAAGGGAGGCGAGGACAGAGCTGGGGCAGGCATAGCTCAAGCTCGCTGGTGGGCTGCACTCTT
 TGGCTATGTGATGATTTTGGGGCTGTCCCTCCTGGTGTGCTGTGTGCTCTGGCTGCAGGAGAAGAGGCC
 AGGGAAGTGGCCATAATGCTCTGGACACCCAGTGTGGGTCTGGTCTGGGGCAGGCGCAGTCTACCTGT
 TCCACAAGCAGGAGGCCAAAAGCTTATGTCGGGCCAGGCTGAGATACAACATGTTCTGACAAGGACAAC
 GGAGACCCAGGACCTAGGCTCAGAGCCTCACCAACCCACTGCCGCGCAGCAGGAGCGGCAGACAGACTGAA
 GAAAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_031360

Insert Size: 1269 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:

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_031360.2](#), [NP_112650.1](#)

RefSeq Size: 1676 bp

RefSeq ORF: 1269 bp

Locus ID: 83537

UniProt ID: [Q9ET64](#)

Cytogenetics: 20q12

Gene Summary: catalyzes the Mg²⁺ dependent hydrolysis of sphingomyelin to form N-acylsphingosine and choline phosphate; also has a lower activity for the hydrolysis of lyso-platelet activating factor to 1-alkylglycerol [RGD, Feb 2006]