

## Product datasheet for **RR204041**

### Smpd2 (NM\_031360) Rat Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RR204041 representing NM\_031360  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGCACAACTTTTCTCTGCGGTGAGGGTTTTCAACCTCAACTGCTGGGACATCCCCTACCTAAGCA  
 AGCATAGGGCCGACCGCATGAAGCGCTTGGGAGACTTTCTGAACTTGGAGAGCTTTGACCTGGCTCTGCT  
 GGAGGAGGTGGAGTGAGCAGGACTTCCAGTACTTAAAGCAAAAGCTATCGCTCACCTACCCGGATGCA  
 CACTACTTCAGAAGCGGAATCATTGGCAGTGGCCTCTGTGTGTTCTCCAGACACCCAATCCAGGAAATTG  
 TCCAGCACGTCTACTCTCAATGGTTACCCCTACAAGTCTATCATGGAGACTGGTTCTGTGGGAAAGGC  
 TGTGGGGTCTGGTCTCCATTAAGCGGACTGGTCTCAACGCCTACGTGACCCATCTGCACGCTGAG  
 TACAGCCGGCAGAAGGATATCTACTTCGCACACCGTGTGGCCCAAGCTTGGGAACTGGCCAGTTTATCC  
 ACCACACATCCAAGAAAGCAAATGTGGTCTGTGTGCGGGGATCTCAACATGCACCCCAAAGACCTGGG  
 CTGCTGCCTACTGAAAGAGTGGACGGGGCTCCGTGATGCCTTTGTTGAGACCGAGGACTTTAAGGGCTCA  
 GAGGACGGCTGTACCATGGTACCCAAGAACTGCTACGTACGCCAGCAGGACTGGGGCCGTTTCCCTTTG  
 GCGTCCGTATCGACTACGTGCTTACAAGGCAGTCTCTGGCTTCCACATCTGCTGTAAGACTCTGAAAAC  
 CACTACGGGCTGTGACCCCCACAATGGCACCCCTTCTCTGACCAGAGGCCCTCATGGCTACTTTGTGT  
 GTGAAGCACAGCCCCCTCAGGAAGACCCTTGCTGCCCATGGATCAGCGGAAAGGTCAGCATTGATCA  
 GCGCGCTAAGGGAGGCGAGGACAGAGCTGGGGCAGGCATAGCTCAAGCTCGCTGGTGGGCTGCACTCTT  
 TGGCTATGTGATGATTTTGGGGCTGTCCCTCCTGGTGTGCTGTGTGCTGCTGAGGAGAAGAGGCC  
 AGGGAAGTGGCCATAATGCTCTGGACACCCAGTGTGGGTCTGGTCTGGGGCAGGCGCAGTCTACCTGT  
 TCCACAAGCAGGAGGCCAAAAGCTTATGTGGGGCCAGGCTGAGATACAACATGTTCTGACAAGGACAAC  
 GGAGACCCAGGACCTAGGCTCAGAGCCTCACCAACCCACTGCCGGCAGCAGGAGCGGCAGAGCTGAA  
 GAAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204041 representing NM\_031360  
 Red=Cloning site Green=Tags(s)

MKHNFSLRLRVFNLCWDIPYLSKHRADRMKRLGDFLNLESFDLALLEEVWSEQDFQYLKQKLSLTYPDA  
 HYFRSGIIGSGLCVFSRHPIQEI VQHVVYTLNGYPYKFYHGDWFCGKAVGLLVHL SGLVLNAYVTHLHAE  
 YSRQKDIYFAHRVAQAWELAQFIHHTSKKANVLLCGDLNMHPKDLGCCLLKEWTGLRDAFVETEDFKGS  
 EDGCTMVPKNCYVSQQDLGPFPGVRIYVLYKAVSGFHCCKTLKTTTGCDPHNGTPFSDHEALMATLC  
 VKHSPPQEDPCSAHGAERSALISALREARTELRGIAQARWWAALFGYVMILGLSLLVLLCVLAAGEEA  
 REVAIMLWTPSVGLVLGAGAVYLFHKQEAKSLCRAQAEIQHVLTRTTETQDLGSEPHPTHCRQEQEADRAE  
 EK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

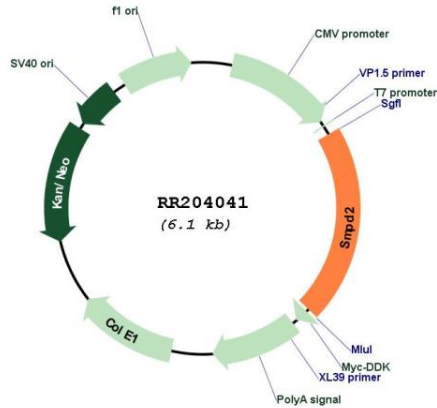
SgfI-MluI



MW: 47.6 kDa

Gene Summary: catalyzes the Mg<sup>2+</sup> 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]

**Product images:**



Circular map for RR204041