

## Product datasheet for **MC203729**

### **Smpd1 (NM\_011421) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smpd1 (NM_011421) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smpd1
Synonyms:	A-SMase; ASM; aSMase; Zn-SMase
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC011304  
 CGAAGGGTAATCAGGTGTCTCCAGCGTTACCCGGGCCCGAGGGCCAGCCAGGGCTTCGGCCTGTGGGGC  
 CTGGAGGGGCAAGCCAGTCTGTCTACGAGCCTGGCAATGCCCCACCACAGAGCATCATCCGGCCAGGAC  
 CACCTCAGAGCCGGCTGGGAGCAGAGACTGGAGAGGTCTTACCGGCACCCAGAGTGGGACTCCTTTGGA  
 TGGGGCTGGGCTTGGCGCTGGTTCTGGCTCTGTTTGACACCACGGTCTTTGGGTTCTGCCAGAGCTTA  
 TCCTCTTCTTCTGAAGGCCATTCTGTCAAATTCAGTGCCATAGCGCCCGCTCCAGAGTGCCTTTGGG  
 TGGCAGAACCCTCACTTGGCCCGCTGCAAAGTCTTATTCAGTCTCAACCATGGGCTGAAGAAGGAGC  
 CCAATGTGGCACGGGTAGGCTCTGTGGCCATCAAGATATGCAAGATGCTGAACATAGCACCACTAGATGT  
 GTGCCAGTCAGCCGTCCATCTCTTTGAGACGATGTGGTGGAGGTGTGGACACGTTCAAGTCTGAGCCCA  
 TCAGAGGCTTGTGGCTTGTCTTTGGGCTCTTGTGGACACTGGGACATCTTTTCGACTTGAACATCT  
 CTTTGCCATCAGTGCCGAAGCCACCCCAAGCCACCGAGCCACCAGCCCCGGTGGCCCTGTGAGCCG  
 TGTCTCTTCTTACTGATCTACACTGGGACATGAGTACCTGGAGGGCACAGACCCTTACTGTGCAGAT  
 CCACTTTGCTGCCCGGGGGTCCGGATGGCCACCAACTCCCAGAAGGGGGCTGGGTTCTGGGGCAGT  
 ACAGCAAGTGTGACCTGCCCTTGCGAACCTAGAAAGCCTGTTGAAAGGACTGGGCCCTGCCGGCCTTT  
 TGAAATGGTGTACTGGACGGGAGATATCCCTGCCCATGATGTCTGGCAACAGTCTCGCCAAGATCAGCTG  
 AGGGCCCTGACCACCATCACAGACCTCGTGAGGAAGTTCTTGGGCCAGTGCCAGTGTACCTGTGTGG  
 GCAACCATGAGAGCACTCCTGTCAATGGCTTCCCTCCTCCCTTATAAAGGGAAACCAATCTTACAATG  
 GCTCTATGAAGCCATGGCCAAGGCATGGGAACCCTGGTTACCAGCTGATGCCCTTACACCTAAGAATT  
 GGGGGCTTCTATGCCCTACCCACGCCCTGGCCTCCGCCTCATCTCTCAATATGAATTTTTGTTCC  
 GTGAGAACTTTTGGCTCTTGATCAACTCCACAGATCCTGCTGGACAACTCCAGTGGCTGGTGGAGGAGCT  
 TCAGGCTGCTGAGAATCGAGGAGACAAAGTGCATATAATTGGCCACATCCCTCCAGGACATTGTCTTAAG  
 AGCTGGAGCTGGAATTATTACAAAATCATAGCCAGGTATGAAAACACTCTGGCCAGTCAAGTCTTTGGCC  
 CACTCACGTGGATGAGTTTGGATCTTCTATGATGAGGAAACTCTGAGCCGACCACTAGTGTAGCCTT  
 CTTGGGCCCCAGTGTACAACCTTTATCAACCTTAACCCTGGCTACCGAGTTTACCAAATAGATGGAAAC  
 TACCCCGAAGCTCTCATGTGGTCTGGACCACGAGACCTACATCTGAATCTGACCCAGGCCAACGACGAG  
 CAGGAGGCACACCAAGCTGGAAGCGCCTCTACAGGGCTCGAGAAACCTATGGACTTCCAGATGCGATGCC  
 TGCCCTCTGGCACAACCTGGTCTACCGCATGAGGGATGATGAGCAACTCTTCCAGACCTTCTGGTTTCTC  
 TACCATAAGGGCCACCCACCTTCCAGAGCCCTGCCGCACACCCTGCCGCCTGGCCACTCTGTGTGCCAGC  
 TCTCAGCCCGAGCAGACAGCCCTGCTTTGTGTCGCCACTTGTATGCCCAATGGGAGCCTCCAGATGCCAA  
 TAGGTTGTGGTACGCCCCCTGTTGTGCTAGTATCCATGTTCCAGACTGGGAAAGTTCATGTATCAGA  
 AAAGGGATACATCCCGAGTGTGCTTATCTACCTGAGGCAAAAGCTTCGGGGGAAGGAGCCAGCCAGGC  
 CAGGGAAACAAGCCGCTCATGAGAGCTTGTGGTTACTGAGGAGGTTTTGGCTGTCTACTTATG  
 CCCAGGATCTGGATTACCCCTGGGGCTGATGTCTGACCTGGGCTTTGTGAGGGCTCAGTGTCTGGATA  
 GTCAGACAGGAGCTATTGCCCGAGCCTGGGCTAATGGACCTCTGAACCTGTACTGTTACCTGATCCTGC  
 AAGGCTGTTAAAAATAAGAGACACACTTCAGACTCAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_011421

**Insert Size:** 1884 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:** [BC011304](#), [AAH11304](#)

**RefSeq Size:** 2360 bp

**RefSeq ORF:** 1884 bp

**Locus ID:** 20597

**UniProt ID:** [Q04519](#)

**Cytogenetics:** 7 55.9 cM

**Gene Summary:** Converts sphingomyelin to ceramide. Also has phospholipase C activities toward 1,2-diacylglycerolphosphocholine and 1,2-diacylglycerolphosphoglycerol.[UniProtKB/Swiss-Prot Function]