

## Product datasheet for **MC221883**

### **Smpd4 (NM\_029945) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smpd4 (NM_029945) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smpd4
Synonyms:	4122402O22Rik; mKIAA1418
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC221883 representing NM\_029945  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGTTCCCTCACCTACAACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC  
 CCTTTGCACAACGTTGCCAAGATTTGGTAAAAGTCATTGAGGATTTCCAGCCAAGGAATTGCATGCCGT  
 CTTCCCATGGCTGGTGGAAAGCATCTTTGGCAGCCTGGATGGTGTCTTGTGGTTGGAATCTCCGATGC  
 CTACAGGGACGTGTGAACCCTGTGGAGTACAGCACAGCGATGGAATTTCTAGACCCAAGTGGTCCAATGA  
 TGAAGTTGGTTTATAAATTCAAGCTGAAGACTATAACTTTGATTTTCTGTCTCCTGTCTTCTGGCCC  
 TGTGAAGGCATCCATTCAAGAGAATGTCCTCCCTGACAGTCTCTGTACCACAACAAAGTCCAGTTTCCC  
 CCGACCGGAGGCCCTTGGCCTGAACTGGCCCTCAATCCATTTGAATACTATATGTTCTACTTTGCTTTGA  
 GCCTCATCTCTAAAAGCCAATGTCTATGACCCTCCATGTCCGTACTTGGACTGTGCCTATTTCCACCT  
 GGTGGATAGGTACCTATCATGGTTCTACCCACTGAAGGCAGCGTACCTCCACCCTCTGTCCAGTCCA  
 GGAGGCTCCAGCCCTCACCAGCTCCAGAACACCAGCCATGCCCTTTGCCTCCTATGGCCTCCACACTA  
 GCCTCTTGAAGCGACACATCTCTCATCAGACATCTGTGAATGCAGACCCTGCATCCCATGAGATCTGGCG  
 GTCAGAAACTCTCCTCCAGGTTTTGTGGAAATGTGGCTTCACTACTCCCTGGAGATGTACCAAAAA  
 ATGCAGTCCCCTCATGCCAAGTTGGAGTTCTACACTACCGACTCACTGTCTCCAGCGCCCTCCACAGCC  
 CTGCCAACCCAGCCTCCAGGCCCTCCACGCCTACCAAGAGTCTTCCAGCCTACTGAAGAGCACGTGCT  
 GGTGGTACGCCTGCTGCTGAAGCACCTGCATGCCTTTGCCAACAGCCTGAAGCCAGATCAGGCTTCGCCA  
 TCTGCACACTCCCATGCCACCAGTCCGCTGGAGGAATTCAAACGGGCCGAGTGCCTCGCTTTGTCCAGC  
 AGAAGCTGTACGTCTTCTGCAGCACTGTTTTGGCCACTGGCCTCTGGATGCAACCTTCAAGAGTCTT  
 GGAGATGTGGCTGAGCTACCTGCAGCCATGGAGGTATGCCCTGAGAAAACAGGCTCAGGGCAGCGATCCC  
 CAGCCACGGTGTGTGTCAGAGAAGTGGGACCCCTTCCATCCAGGAAAACCTGCTGATGTACACCAAGCTGT  
 TTGTGAGCTTTCTGAACCGTGCCCTACGCACAGACCTTGTGAGCCCAAGAATGCACTCATGGTCTTCCG  
 AGTGGCTAAGGTCTTTGCCAGCCCAACCTGGCTGAGATGATCCAGAAAGGTGAGCAGCTGTTCTGGAG  
 CCGGAGCTCATCATCCCCACCGCCAACACCGGCTCTTACAGTCAACCACAGCTTCTGTCAACATGGC  
 CCCCTGTTGTGACAGATGCCTCCTCAAGGTGAAGAGCCATGTCTATAGCCTAGAGGGCCAAGACTGCAA  
 ATATACCCCAATGTTGGTCTGAAATCCGAACCTGGTCTTGGCCTTGTCTCAGCTCATCACACAGGCC  
 AAGCAGACTGCCAAGTCCATCTCTGATCAGTATGTGAAAAGCCCAACTGGCCGCTCCTTCTGTGATGGC  
 TGACCTTTGGCCTCACAGACACAAATAGCTGCTACCCAGCCAATGACCTGGATGAAATAGGTCAGGACAG  
 CATCCGCAAGACAGACGAGTACTTAGAAAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAA  
 GCCCAGCTGGCCAGCTCACGCTTGCCTGGGGAGTGTCTGGGACGAGAAATGGGAAGCAGCAGCTCCAG  
 ATTGCATTGTGGGGGAAGAAGGACTCATCCTTACACCCTTGGGCCGCTACCAGATCATTAAATGGTCTGCG  
 AAGGTTGAGATTGAGTACCAGGGAGACTTAGAGCTGCAGCCATCCGGAGCTACGAAATCACCAGTCTG  
 GTCCGTGCACTCTCCGGCTGTCTCTGCCATCAACCGTAGATTTGCAGGCCAGATGGCAGCTCTGTGCT  
 CCCGGAATGACTTCTTGGCAGCTTCTGTGCTACACCTCACTGAGCCTGCCTTGAGCAACAGACATCT  
 GCTGAGCCCTGTAGGGCGGAGGCAGGTACCAATCCTGCACGGGGCCCAAGGCTCAGCCTCCGTTTCTGTG  
 GGCAGTTACCGGACACTGCTCCTGCTCCTGATGGCCTTCTTTGTGGCTTCTCTGTTCTGCATTGGGCCCC  
 TGTCTGCTCCTTGTCTGCTTAGGATACGTCCTCTATGCCATAGCTATGACTGCTCACTGAACG  
 GGGGAAGCTGCACCAGCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul  
 ACCN: NM\_029945  
 Insert Size: 2472 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_029945.3</a> , <a href="#">NP_084221.2</a>
<b>RefSeq Size:</b>	4632 bp
<b>RefSeq ORF:</b>	2472 bp
<b>Locus ID:</b>	77626
<b>UniProt ID:</b>	<a href="#">Q6ZPR5</a>
<b>Cytogenetics:</b>	16 A3
<b>Gene Summary:</b>	Catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide. May sensitize cells to DNA damage-induced apoptosis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest isoform (1).