

## Product datasheet for **MC221644**

### Smpd4 (NM\_001164611) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smpd4 (NM_001164611) 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)



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Fully Sequenced ORF: >MC221644 representing NM\_001164611  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTTCCCTCACCTACAACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC  
 CCTTTGACAACGTTGCCAAGATTTGGTGAAAGTCATTGAGGATTTCCAGCCAAGGAATTGCATGCCGT  
 CTTCCCATGGCTGGTGGAAAGCATCTTTGGCAGCCTGGATGGTGTCTTGTGGTTGGAATCTCCGATGC  
 CTACAGGGACGTGTGAACCCTGTGGAGTACAGCACAGCGATGGAATTTCTAGACCCAAGTGGTCCAATGA  
 TGAAGTTGGTTTATAAATTCAAGCTGAAGACTATAACTTTGATTTTCTGTCTCCTGTCTTCTGGCCC  
 TGTGAAGGCATCCATTCAAGAGAATGTCCTCCCTGACAGTCTCTGTACCACAACAAAGTCCAGTTTCCC  
 CCGACCGGAGGCCTTGGCCTGAACCTGGCCCTCAATCCATTTGAATACTATATGTTCTACTTTGCTTTGA  
 GCCTCATCTCTAAAAGCCAATGTCTATGACCCTCCATGTCCGTAATTCGGACTGTGCCTATTTACCCT  
 GGTGGATAGGTACCTATCATGGTTCTACCCACTGAAGGCAGCGTACCTCCACCCTCTGCTCCAGTCCA  
 GGAGGCTCCAGCCCTCACCAGCTCCAGAACACCAGCCATGCCCTTTGCCTCCTATGGCCTCCACACTA  
 GCCTCTTGAAGCGACACATCTCTCATCAGACATCTGTGAATGCAGACCCTGCATCCCATGAGATCTGGCG  
 GTCAGAACTCTCCTCCAGGTTTTGTGGAAATGTGGCTTTCATCATTACTCCCTGGAGATGTACAAAAA  
 ATGCAGTCCCCTCATGCCAAGGAGTCTTACGCCTACTGAAGAGCACGTGCTGGTGGTACGCCTGCTGC  
 TGAAGCACCTGCATGCCTTTGCCAACAGCCTGAAGCCAGATCAGGCTTCGCCATCTGCACACTCCCATGC  
 CACCAGTCCGCTGGAGGAATCAAACGGGCCGAGTGCCTCGCTTTGTCCAGCAGAAGCTGTACGTCTTC  
 CTGCAGCACTGTTTTGGCCACTGGCCTCTGGATGCAACCTTCAAGCTGTCTTGGAGATGTGGCTGAGCT  
 AGAGAAGGCACCCTTCCAGGAAAACCTGCTGATGTACACCAAGCTGTTTGTGAGCTTCTGAACCGT  
 GCCCTACGCACAGACCTTGTGAGCCCAAGAATGCACTCATGGTCTTCCGAGTGGCTAAGGTCTTTGCC  
 AGCCCAACCTGGCTGAGATGATCCAGAAAGGTGAGCAGCTGTTCTGGAGCCGGAGCTCATCATCCCCCA  
 CCGCCAACACCGGCTCTTACAGTACCACCAGCTTCTGTACCATGGCCCCCTGTTGTGACAGATGCC  
 TCCTTCAAGGTGAAGAGCCATGTCTATAGCCTAGAGGGCCAAGACTGCAAAATATACCCCAATGTTTGGTC  
 CTGAAATCCGAACCTGGTCTTGGCCCTGCTCAGCTCATCACACAGGCCAAGCAGACTGCCAAGTCCAT  
 CTCTGATCAGTATGTGAAAGCCCAACTGGCCGCTCCTTCTGTGATGGTGACCTTTGGCCTCACAGAC  
 ACAATAGCTGCTACCCAGCCAATGACCTGGATGAAATAGGTGAGCAGCATCCGCAAGACAGACGAGT  
 ACTTAGAAAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAAGCCAGCTGGCCAGCTCAC  
 GCTTGGCCTGGGAGTGCTCGGGACGAGAATGGGAAGCAGCAGCTCCAGATTGCATTGTGGGGGAAGAA  
 GGACTCATCTTACACCTTTGGGCCGCTACCAGATCATTAAATGGTCTGCGAAGGTTGAGATTGAGTACC  
 AGGGAGACTTAGAGCTGCAGCCATCCGGAGCTACGAAATCACCAGTCTGGTCCGTGCACCTTCCGGCT  
 GTCCTCTGCCATCAACCGTAGATTTGCAGGCCAGATGGCAGCTCTGTGCTCCCGAATGACTTCTTGGC  
 AGCTTCTGTGCTACCACCTCACTGAGCCTGCCTTGAGCAACAGACATCTGCTGAGCCCTGTAGGGCGGA  
 GGCAGGTACCAATCCTGCACGGGGCCCCAGGCTCAGCCTCCGTTTCTGGGCAGTTACCGGACACTGCT  
 CCTGCTCCTGATGGCCTCTTTGTGGCTTCTGTTCTGATTGGGCCCTGTCTGCTCCTTGTCTCCTG  
 GTCCCTAGGATACGTCCTATGCCATAGCTATGACACTGCTCACTGAACGGGGGAAGCTGCACCAGCTCT  
 GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul  
 ACCN: NM\_001164611  
 Insert Size: 2382 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_001164611.1</a> , <a href="#">NP_001158083.1</a>
<b>RefSeq Size:</b>	4542 bp
<b>RefSeq ORF:</b>	2382 bp
<b>Locus ID:</b>	77626
<b>UniProt ID:</b>	<a href="#">Q6ZPR5</a>
<b>Cytogenetics:</b>	16 A3
<b>Gene Summary:</b>	<p>Catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide. May sensitize cells to DNA damage-induced apoptosis.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is shorter than isoform 1.</p>