

Product datasheet for **MC221769**

Smpd4 (NM_001164609) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpd4 (NM_001164609) 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: >MC221769 representing NM_001164609
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGTTCCCTCACCTACAACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC
 CCTTTGCAACAACGTTGCCAAGATTTGGTGAAAGTCATTGAGGATTTCCAGCCAAGGAATTGCATGCCGT
 CTTCCCATGGCTGGTGGAAAGCATCTTTGGCAGCCTGGATGGTGTCTTGTGGTTGGAATCTCCGATGC
 CTACAGGGACGTGTGAACCCTGTGGAGTACAGCACAGCGATGGAATTTCTAGACCCAAGTGGTCCAATGA
 TGAAGTTGGTTTATAAATTCAAGCTGAAGACTATAACTTTGATTTTCTGTCTCCTGTCTTCTGGCCC
 TGTGAAGGCATCCATTCAAGAGAATGTCCTCCCTGACAGTCTCTGTACCACAACAAAGTCCAGTTTCCC
 CCGACCGGAGGCCCTTGGCCTGAACCTGGCCCTCAATCCATTTGAATACTATATGTTCTACTTTGCTTTGA
 GCCTCATCTCTAAAAGCCAATGTCTATGACCCTCCATGTCCGTACTTCGGACTGTGCCTATTTACCCT
 GGTGGATAGGTACCTATCATGGTTCTACCCACTGAAGGCAGCGTACCTCCACCCTCTGTCCAGTCCA
 GGAGGCTCCAGCCCTCACCAGCTCCAGAACACCAGCCATGCCCTTTCCTCCTATGGCCTCCACACTA
 GCCTCTTGAAGCGACACATCTCTCATCAGACATCTGTGAATGCAGACCCTGCATCCCATGAGATCTGGCG
 GTCAGAACTCTCCTCCAGGTTTTGTGGAAATGTGGCTTTCATCATTACTCCCTGGAGATGTACAAAAA
 ATGCAGTCCCCTCATGCCAAGGAGTCTTACGCCTACTGAAGAGCAGCTGCTGGTGGTACGCCTGCTGC
 TGAAGCACCTGCATGCCTTTGCCAACAGCCTGAAGCCAGATCAGGCTTCGCCATCTGCACACTCCCATGC
 CACCAGTCCGCTGGAGGAATCAAACGGGCCGAGTGCCTCGCTTGTCCAGCAGAAGCTGTACGTCTTC
 CTGCAGCACTGTTTTGGCCACTGGCCTCTGGATGCAACCTTCAGAGCTGTCTGGAGATGTGGCTGAGCT
 ACCTGCAGCCATGGAGGTATGCCCTGAGAAACAGGCTCAGGGCAGCGATCCCCAGCCAGGTTGTGTC
 AGAGAAGTGCCTGGCTCCATGGTCAACCCTATCAGCACAGAGGACTGAGGGCACCTTCATCCAGGAAAAC
 CTGCTGATGTACACCAAGCTGTTTGTGAGCTTTCTGAACCGTGCCTACGCACAGACCTTGTGAGCCCCA
 AGAATGCACTCATGGTCTCCGAGTGGTAAGGTCTTTGCCAGCCCAACCTGGTGAGATGATCCAGAA
 AGGTGAGCAGCTGTTCTGGAGCCGGAGCTCATCATCCCCACCGCCAACACCGGCTCTTACAGTCACC
 ACCAGTTCCTGTCAACATGGCCCCCTGTTGTGACAGATGCCTCCTTCAAGGTGAAGAGCCATGTCTATA
 GCCTAGAGGGCCAAGACTGCAAATATACCCCAATGTTTGGTCTGAAATCCGAACCTGGTCTTGGCCT
 TGCTCAGCTCATCACACAGGCCAAGCAGACTGCCAAGTCCATCTCTGATCAGTATGTGAAAGCCCACT
 GGCCGCTCCTTCTGTGATGGCTGACCTTTGGCCTCACAGACACAAATAGCTGTACCCAGCCAATGACC
 TGGATGAAATAGGTGAGGACAGCATCCGCAAGACAGACGAGTACTTAGAAAAGGCCCTGGAGTACCTGCG
 CCAGATATTCCGGCTCAGCGAAGCCAGCTGGCCAGCTCACGCTTGCCTGGGGAGTGTCTGGGACGAG
 AATGGGAAGCAGCAGCTCCCAGATTGCATTGTGGGGGAAGAAGGACTCATCCTTACACCCTTGGGCCGCT
 ACCAGATCATTAAATGGTCTGCGAAGGTTGAGATTGAGTACCAGGGAGACTTAGAGCTGCAGCCCATCCG
 GAGCTACGAAATCACCAGTCTGGTCCGTGCACTCTTCCGGCTGTCTCTGCCATCAACCGTAGATTTGCA
 GGCCAGATGGCAGCTCTGTGCTCCCGAATGACTTCTTGGCAGCTTCTGTGCTACCACCTCACTGAGC
 CTGCCTTGAGCAACAGACATCTGCTGAGCCCTGTAGGGCGGAGGCAGGTACCAATCTGCACGGGGCCC
 CAGGCTCAGCCTCCGTTTCTGGCAGTTACCGGACACTGCTCCTGCTCCTGATGGCCTTCTTTGTGGCT
 TCTCTGTTCTGCATTGGGCCCTGTCTGCTCCTTGTCTCCTGGTCTAGGATACGCTCCTCATGCCATAG
 CTATGACTGCTCACTGAACGGGGGAAGCTGCACCAGCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001164609
 Insert Size: 2424 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:	<ol style="list-style-type: none">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_001164609.1 , NP_001158081.1
RefSeq Size:	4584 bp
RefSeq ORF:	2424 bp
Locus ID:	77626
UniProt ID:	Q6ZPR5
Cytogenetics:	16 A3
Gene Summary:	<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 (4) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 4, which is shorter than isoform 1.</p>