

Product datasheet for **MR210696**

Smpd4 (NM_001164610) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpd4 (NM_001164610) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smpd4
Synonyms:	4122402O22Rik; mKIAA1418
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210696 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTTCCCTCACCTACCACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC
CCTTTGCACAACGTTGCCAAGATTTGGTAAAAGTCATTGAGGATTTCCAGCCAAGGAATTGCATGCCGT
CTTCCCATGGCTGGTGGAAAGCATCTTTGGCAGCCTGGATGGTGTCTTGTGGTTGGAATCTCCGATGC
CTACAGGGACGTGTGAACCCTGTGGAGTACAGCACAGCGATGGAATTTCTAGACCCAAGTGGTCCAATGA
TGAAGTTGGTTTATAAATTCAAGCTGAAGACTATAACTTTGATTTTCTGTCTCCTGTCTTCTGGCCC
TGTGAAGGCATCCATTCAAGAGAATGTCCTCCCTGACAGTCTCTGTACCACAACAAAGTCCAGTTTCCC
CCGACCGGAGGCCCTTGGCCTGAACCTGGCCCTCAATCCATTTGAATACTATATGTTCTACTTTGCTTTGA
GCCTCATCTCTAAAAGCCAATGTCTATGACCCTCCATGTCCGTAATTCGGACTGTGCCTATTTCCACCT
GGTGGATAGGTACCTATCATGGTCTACCCACTGAAGGCAGCGTACCTCCACCCTCTGTCCAGTCCA
GGAGGCTCCAGCCCTCACCAGCTCCAGAACACCAGCCATGCCCTTTGCCCTCTATGGCCTCCACACTA
GCCTCTTGAAGCGACACATCTCTCATCAGACATCTGTGAATGCAGACCCTGCATCGCATGAGATCTGGCG
GTCAGAACTCTCCTCCAGGTTTTTGTGGAAATGTGGCTTCACTACTCCCTGGAGATGTACCAAAAA
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TGAAGCACCTGCATGCCTTTGCCAACAGCCTGAAGCCAGATCAGGCTTCGCCATCTGCACACTCCCATGC
CACCAGTCCGCTGGAGGAATCAAACGGGCCGAGTGCCTCGCTTTGTCCAGCAGAAGCTGTACGTCTTC
CTGCAGCACTGTTTTGGCCACTGGCCTCTGGATGCAACCTTCAAGCTGTCTTGGAGATGTGGCTGAGCT
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GCCTCCTTCAAGGTGAAGAGCCATGTCTATAGCCTAGAGGGCCAAGACTGCAATATACCCCAATGTTTG
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GACACAAATAGCTGCTACCCAGCCAATGACCTGGATGAAATAGGTGAGGACAGCATCCGCAAGACAGACG
AGTACTTAGAAAAGGCCCTGGAGTACCTGCGCCAGATATTCGGCTCAGCGAAGCCAGCTGGCCAGCT
CACGCTTGGCCCTGGGGAGTGTCTGGGACAGAAATGGGAAGCAGCAGCTCCCAGATTGCATTGTGGGGGAA
GAAGGACTCATCCTTACACCTTGGGCCGCTACCAGATCATTAAATGGTCTGCGAAGGTTCCGAGATTGAGT
ACCAGGGAGACTTAGAGCTGCAGCCATCCGGAGCTACGAAATCACCAGTCTGGTCCGTGCACTCTTCCG
GCTGTCTCTGCCATCAACCGTAGATTTGCAGGCCAGATGGCAGCTCTGTGCTCCCGAATGACTTCTT
GGCAGCTTCTGTGCTACCACTCACTGAGCCTGCCTTGAACACAGACATCTGTGAGCCCTGTAGGGC
GGAGGCAGGTACCAATCCTGCACGGGGCCCCAGGCTCAGCCTCCGTTTCTGGGCAGTTACCGGACACT
GCTCCTGCTCTGATGGCCTTCTTGTGGCTTCTGTGTTCTGCATTGGGCCCTGTCTGCTCCTTGCTC
CTGGTCTAGGATACGTCCTCTATGCCATAGCTATGACTGCTCACTGAACGGGGGAAGCTGCACCAGC
TC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210696 protein sequence

Red=Cloning site Green=Tags(s)

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MAFPHLPQPSFLLASLKADSINKPFAQRCQDLVKVIEDFPAKELHAVFPWLVESIFGSLDGVLVGWNLRC
LQGRVNPVEYSTAMEFLDPSGPMMLVYKLAEDYNDFPVSCLPGPVKASIQENVLPDSPLYHNKVQFP
PTGGLGLNLALNPFYEMFYFALSLSIQKPMSTLHVRTSDCAYFTLVDRYLSWVLPTEGSVPPPLCSSP
GGSSPSPAPRTPAMPFASYGLHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQK
MQSPHAKESFTPTTEHVLLVVRLLKHLHAFANSLKPDQASPSAHSHATSPLLEEFKRAAVPRFVQQKLYVF
LQHCFGHWPLDATFRAVLEMWLSYLQPWRYAPEKQAQGSQPQRCVSEKWAPFIQENLLMYTKLFFVSFLN
RALRTDLVSPKNALMVFRAKVFQPNLAEMIQKGEQLFLEPELIIPHRQHRLFTVTTSLSPWPPVVD
ASFVKVSHVYSLEGQDCKYTPMGPEIRTLVLRQAQLITQAKQTAKSISDQYVESPTGRSFLSWLTFGLT
DTNSCYPANDLDEIGQDSIRKTDEYLEKALEYLRQIFRLSEAQLAQLTLALGSARDENKQQLPDCIVGE
EGLILTPLGRYQIINGLRRFEIEYQGDLELQPIRSYEITSLVRALFRLSSAINRRFAGQMAALCSRNDL
GSFCRYHLTEPALSNRHLLSPVGRRQVTNPARGPRLSLRFLGSYRTLLLLLMAFFVASLFCIGPLSCSLL
LVLGYVLYAIAMTLLTERGKLHQL
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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: [NM_001164610.1](#), [NP_001158082.1](#)

RefSeq Size: 4545 bp

RefSeq ORF: 2385 bp

Locus ID: 77626

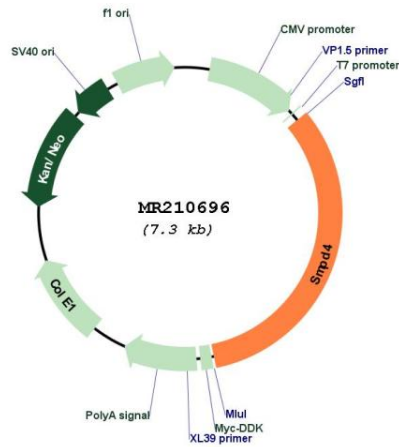
UniProt ID: [Q6ZPR5](#)

Cytogenetics: 16 A3

MW: 90 kDa

Gene Summary: Catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide. May sensitize cells to DNA damage-induced apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210696