

Product datasheet for **MR216855**

Smpd4 (NM_001164611) Mouse Tagged ORF Clone

Product data:

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

>MR216855 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTTCCCTCACCTACAACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC
 CCTTTGCACAACGTTGCCAAGATTTGGTGAAAGTCATTGAGGATTTCCAGCCAAGGAATTGCATGCCGT
 CTTCCCATGGCTGGTGGAAAGCATCTTTGGCAGCCTGGATGGTGTCTTGTGGTTGGAATCTCCGATGC
 CTACAGGGACGTGTGAACCCTGTGGAGTACAGCACAGCGATGGAATTTCTAGACCCAAGTGGTCCAATGA
 TGAAGTTGGTTTATAAATTCAAGCTGAAGACTATAACTTTGATTTTCTGTCTCCTGTCTTCTGGCCC
 TGTGAAGGCATCCATTCAAGAGAATGTCCTCCCTGACAGTCTCTGTACCACAACAAAGTCCAGTTTCCC
 CCGACCGGAGGCCCTTGGCCTGAACCTGGCCCTCAATCCATTTGAATACTATATGTTCTACTTTGCTTTGA
 GCCTCATCTCTAAAAGCCAATGTCTATGACCCTCCATGTCCGTACTTCGGACTGTGCCTATTTACCCT
 GGTGGATAGGTACCTATCATGGTTCTACCCACTGAAGGCAGCGTACCTCCACCCTCTGTCCAGTCCA
 GGAGGCTCCAGCCCTCACCAGCTCCAGAACACCAGCCATGCCCTTGGCTCCTATGGCTCCACACTA
 GCCTCTTGAAGCGACACATCTCTCATCAGACATCTGTGAATGCAGACCCTGCATCCCATGAGATCTGGCG
 GTCAGAACTCTCCTCCAGTTTTTGTGGAAATGTGGCTTCATCATTACTCCCTGGAGATGTACAAAAA
 ATGCAGTCCCCTCATGCCAAGGAGTCTTACGCCTACTGAAGAGCACGTGCTGGTGGTACGCCCTGCTGC
 TGAAGCACCTGCATGCCTTTGCCAACAGCCTGAAGCCAGATCAGGCTTCGCCATCTGCACACTCCCATGC
 CACCAGTCCGCTGGAGGAATCAAACGGGCCGAGTGCCTCGCTTGTCCAGCAGAAGCTGTACGTCTTC
 CTGCAGCACTGTTTTGGCCACTGGCCTCTGGATGCAACCTTCAAGCTGTCTTGGAGATGTGGCTGAGCT
 AGAGAAGGCACCCCTTCCAGGAAAACCTGCTGATGTACACCAAGCTGTTTGTGAGCTTCTGAACCGT
 GCCCTACGCACAGACCTTGTGAGCCCAAGAATGCACTCATGGTCTTCCGAGTGGCTAAGGTCTTTGCC
 AGCCCAACCTGGCTGAGATGATCCAGAAAGGTGAGCAGCTGTTCTGGAGCCGGAGCTCATCATCCCCCA
 CCGCCAACACCGGCTCTTACAGTACCACCAGCTTCTGTACCATGGCCCCCTGTTGTGACAGATGCC
 TCCTTCAAGGTGAAGAGCCATGTCTATAGCCTAGAGGGCCAAGACTGCAAAATACCCCAATGTTTGGTC
 CTGAAATCCGAACCTGGTCTTGGCCTTGCTCAGCTCATCACACAGGCCAAGCAGACTGCCAAGTCCAT
 CTCTGATCAGTATGTGAAAGCCCAACTGGCCGCTCCTCCTGTCATGGCTGACCTTGGCCTCACAGAC
 ACAATAGCTGCTACCCAGCCAATGACCTGGATGAAATAGGTGAGCAGCATCCGAAGACAGACGAGT
 ACTTAGAAAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAAGCCAGCTGGCCAGCTCAC
 GCTTGGCCTGGGGAGTGTCTGGGACGAGAATGGGAAGCAGCAGCTCCAGATTGCATTGTGGGGGAAGAA
 GGACTCATCTTACACCTTGGGCCGCTACCAGATCATTAAATGGTCTGCGAAGGTTGAGATTGAGTACC
 AGGGAGACTTAGAGCTGCAGCCATCCGGAGCTACGAAATCACCAGTCTGGTCCGTGCACCTTCCGGCT
 GTCCTCTGCCATCAACCGTAGATTTGCAGGCCAGATGGCAGCTCTGTGCTCCCGAATGACTTCTTGGC
 AGCTTCTGTGCTACCACCTCACTGAGCCTGCCTTGAGCAACAGACATCTGCTGAGCCCTGTAGGGCGGA
 GGCAGGTACCAATCCTGCACGGGGCCCCAGGCTCAGCCTCCGTTTCTGGGCAGTTACCGGACACTGCT
 CCTGCTCCTGATGGCCTCTTTGTGGCTTCTGTTCTGATTGGGCCCTGTCTGCTCCTTGTCTCTG
 GTCCTAGGATACGTCCTATGCCATAGCTATGACACTGCTCACTGAACGGGGGAAGCTGCACCAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216855 protein sequence

Red=Cloning site Green=Tags(s)

MAFPHLQQPSFLLASLKADSINKPFAQRCQDLVKVIEDFPAKELHAVFPWLVESIFGSLDGVLVGWNLRC
LQGRVNPVEYSTAMEFLDPSGPMMLVYKLQAEDYNDFPVSCLPGPVKASIQENLVPDSPLYHNKVQFP
PTGGLGLNLALNPFYEMFYFALSLSIQKPMSTLHVRTSDCAYFTLVDRYLSWFLPTEGSVPPPLCSSP
GGSSPSPAPRTPAMPFASYGLHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQK
MQSPHAKESFTPTTEHVLLVVRLLKHLHAFANSLKPDQASPSAHSHATSPLLEEFKRAAVPRFVQQKLYVF
LQHCFGHWPLDATFRAVLEMWLSYLQPWRYAPEKQAQGSQPQRCVSEKAPFIQENLLMYTKLFVSFLNR
ALRTDLVSPKNALMFRVAKVFAQPNAEMIQKGEQLFLEPELIIPHRQHRLFTVTTSFSPWPPVVTDA
SFKVKSHVYSLEGQDCKYTPMGPEIRTLVRLAQLITQAKQAKSISDQYVESPTGRSFLSWLTFGLTD
TNSCYPANDLDEIGQDSIRKTDEYLEKALEYLRQIFRLSEAQLAQLTLALGSARDENGKQQLPDCIVGEE
GLILTPGRIYQIINGLRRFEIEYQGDLELQPIRSYEITSLVRLFRLSSAINRRFAGQMAALCSRNDFLG
SFCRYHLEPALSNRHLLSPVGRRQVTNPARGPRLSLRFLGSYRLLLLLLMAFFVASLFCIGPLSCSLLL
VLGYVLYAIAMTLLTERGKLHQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001164611

ORF Size: 2379 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001164611.1](#), [NP_001158083.1](#)

RefSeq Size: 4542 bp

RefSeq ORF: 2382 bp

Locus ID: 77626

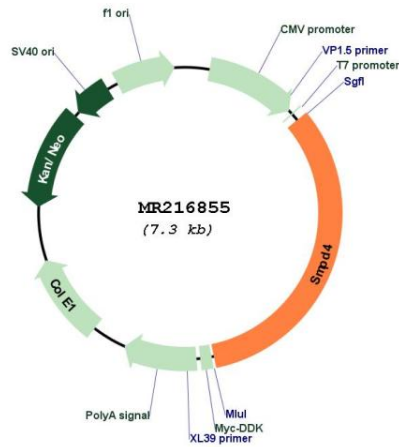
UniProt ID: [Q6ZPR5](#)

Cytogenetics: 16 A3

MW: 89.9 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 MR216855