OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG216855

Smpd4 (NM_001164611) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpd4 (NM_001164611) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smpd4
Synonyms:	4122402O22Rik; mKIAA1418
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG216855 representing NM_001164611
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTTCCCTCACCTACCACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC
CCTTTGCACAACGTTGCCAAGATTTGGTGAAAGTCATTGAGGATTTTCCAGCCAAGGAATTGCATGCCGT
CTTCCCATGGCTGGTGGAAAGCATCTTTGGCAGCCTGGATGGTGTCCTTGTTGGTTGGAATCTCCGATGC
CTACAGGGACGTGTGAACCCTGTGGAGTACAGCACAGCGATGGAATTTCTAGACCCAAGTGGTCCAATGA
TGAAGTTGGTTTATAAACTTCAAGCTGAAGACTATAACTTTGATTTTCCTGTCTCCTGTCTTCCTGGCCC
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CTGCAGCACTGTTTTGGCCACTGGCCTCTGGATGCAACCTTCAGAGCTGTCTTGGAGATGTGGCTGAGCT
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GCTCCTGCTCCTGATGGCCTTCTTTGTGGCTTCTCTGTTCTGCATTGGGCCCCTGTCCTGCTCCTTGCTC
CTGGTCCTAGGATACGTCCTCTATGCCATAGCTATGACACTGCTCACTGAACGGGGGAAGCTGCACCAGC
TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

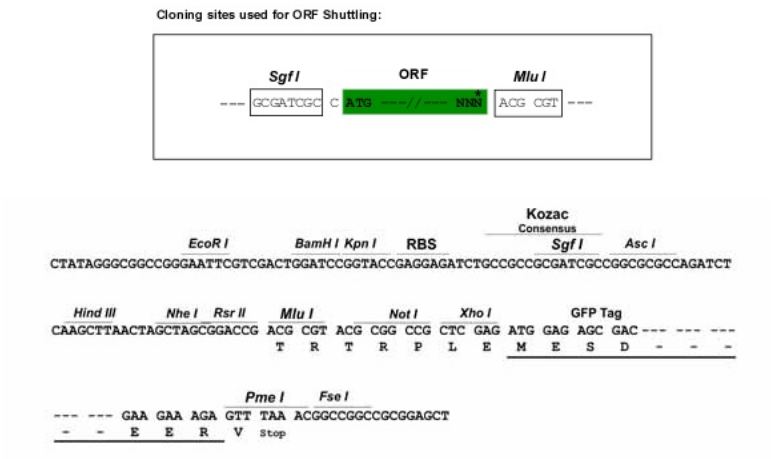
>MG216855 representing NM_001164611
Red=Cloning site Green=Tags(s)

MAFPHLPQPSFLLASLKADSINKPFAQRCQDLVKVIEDFPAKELHAVFPWLVESIFGSLDGVLVGWNLRC
LQGRVNPVEYSTAMEFLDPSGPMMKLVYKLQAEDYNFDFPVSCLPGPVKASIQENVLPDSPLYHNKVQFP
PTGGLGLNLALNPFEYYMFYFALSLISQKPMSMTLHVRTSDCAYFTLVDRYLSWVLPTEGSVPPPLCSSP
GGSSPSPAPRTPAMPFASYGLHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQK
MQSPHAKESFTPTEEHVLVVRLLLKHLHAFANSLKPDQASPSAHSHATSPLEEFKRAAVPRFVQQKLYVF
LQHCFGHWPLDATFRAVLEMWLSYLQPWRYAPEKQAQGSDPQPRCVSEKWAPFIQENLLMYTKLFVSFLN
RALRTDLVSPKNALMVFRVAKVFAQPNLAEMIQKGEQLFLEPELIIPHRQHRLFTVTTSFLSPWPPVVTD
ASFKVKSHVYSLEGQDCKYTPMFGPEIRTLVLRLAQLITQAKQTAKSISDQYVESPTGRSFLSWLTFGLT
DTNSCYPANDLDEIGQDSIRKTDEYLEKALEYLRQIFRLSEAQLAQLTLALGSARDENGKQQLPDCIVGE
EGLILTPLGRYQIINGLRRFEIEYQGDLELQPIRSYEITSLVRALFRLSSAINRRFAGQMAALCSRNDFL
GSFCRYHLTEPALSNRHLLSPVGRRQVTNPARGPRLSLRFLGSYRTLLLLLMAFFVASLFCIGPLSCSLL
LVLGYVLYAIAMTLLTERGKLHQL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

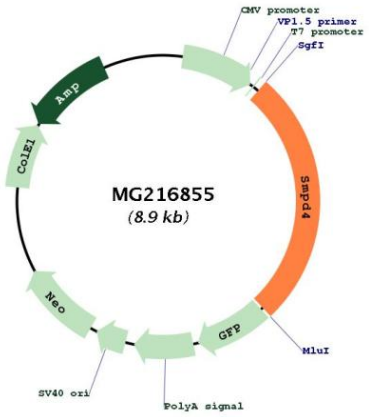
Cloning Scheme:



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
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 MG216855