

## Product datasheet for **MG210696**

### **Smpd4 (BC026767) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smpd4 (BC026767) 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:

>MG210696 representing BC026767  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTTCCCTCACCTACCACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC  
 CCTTTGACAACGTTGCCAAGATTTGGTAAAAGTCATTGAGGATTTCCAGCCAAGGAATTGCATGCCGT  
 CTTCCCATGGCTGGTGGAAAGCATCTTTGGCAGCCTGGATGGTGTCTTGTGGTTGGAATCTCCGATGC  
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 TC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

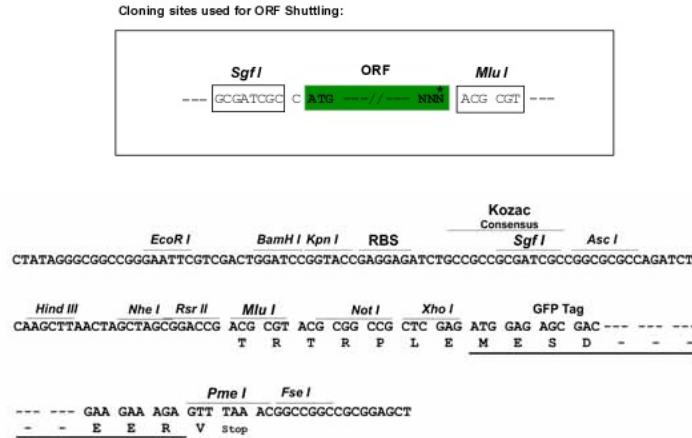
**Protein Sequence:** >MG210696 representing BC026767  
Red=Cloning site Green=Tags(s)

MAFPHLPQPSFLLASLKADSINKPFAQRCQDLVKVIEDFPAKELHAVFPWLVESIFGSLDGVLVGWNLRC  
LQGRVNPVEYSTAMEFLDPSGPMMLVYKLQAEDYNDFPVSCLPGPVKASIQENVLPDSPLYHNKVQFP  
PTGGLGLNLALNPFYEMFYFALSLSIQKPMSTLHVRTSDCAYFTLVDRYLSWVLPTEGSVPPPLCSSP  
GGSSPSPAPRTPAMPFASYGLHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQK  
MQSPHAKESFTPTTEHVLLVVRLLKHLHAFANSLKPDQASPSAHSHATSPLLEEFKRAAVPRFVQQKLYVF  
LQHCFGHWPLDATFRAVLEMWLSYLQPWRYAPEKQAQGSQPQRCVSEKWAPFIQENLLMYTKLFVSFLN  
RALRTDLVSPKNALMVFRAKVFQPNLAEMIQKGEQLFLEPELIIPHRQHRLFTVTTSLSPWPPVVD  
ASFVKVSHVYSLEGQDCKYTPMGPEIRTLVLRQAQLITQAKQTAKSISDQYVESPTGRSFLSWLTFGLT  
DTNSCYPANDLDEIGQDSIRKTDEYLEKALEYLRQIFRLSEAQLAQLTLALGSARDENGKQQLPDCIVGE  
EGLILTPLGRYQIINGLRRFEIEYQGDLELQPIRSYEITSLVRALFRLSSAINRRFAGQMAALCSRNDL  
GSFCRYHLTEPALSNRHLLSPVGRRQVTNPARGPRLSLRFLGSYRTLLLLLMAFFVASLFCIGPLSCSLL  
LVLGYVLYAIAMTLLTERGKLHQL

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



- ACCN:** BC026767
- ORF Size:** 2384 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:** [BC026767](#), [AAH26767](#)

**RefSeq Size:** 3046 bp

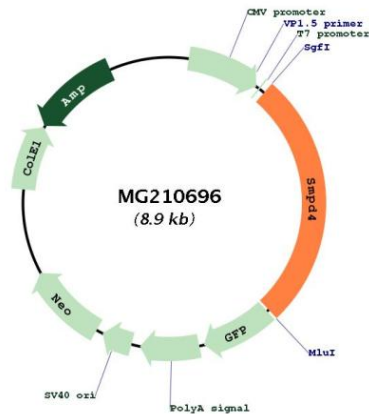
**RefSeq ORF:** 2384 bp

**Locus ID:** 77626

**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 MG210696