

Product datasheet for **RR217236**

Smpd4 (NM_001167806) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpd4 (NM_001167806) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smpd4
Synonyms:	RGD1310674
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR217236 representing NM_001167806
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTTCCCTCACCTACAACAGCCTAGTTTCCTTCTGGCTAGCCTGAAAGCTGACTCTATAAATAAGC
 CCTTTGCGCAGCGTTGCCAAGATTTGGTAAAAGTCATTGAGGATTTCCAGCCAAGGAATTGCATGCCAT
 CTTCCCATGGCTGGTGGAGAGCATCTTTGGCAGCCTGGATGGTGTCTTGTGGCTGGAATCTCCGATGC
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 TGAAGTTGGTGTATAAGCTTCAAGCTGAAGACTATAACTTTGACTTCCCTGTCTCCTGTCTTCTGGCCC
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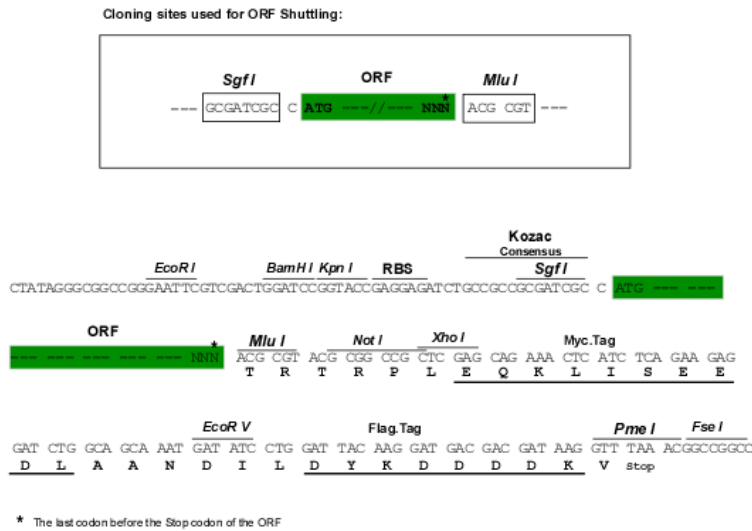
Protein Sequence: >RR217236 representing NM_001167806
 Red=Cloning site Green=Tags(s)

MAFPHLQQPSFLLASLKADSINKPFAQRCQDLVKVIEDFPAKELHAIFPWLVESIFGSLDGVLVGWNLRC
 LQGRVNPVEYSIAMEFLDPSGPMMLVYKLAEDYNDFPVSCLPGPVKASIQENVLPDSPLYHNKVQFP
 PTGGLGLNLALNPFYEMFYFALSLSISQKPMFMSFHVRTSDCAYFILVDRYLSWFLPTEGSVPPPLCSSP
 GGSSPSPAPRTPAMPFASYGLHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQK
 MQSPHAKLEVLHYRLNVSSALHSPAQPSLQALHAYQESFMPTEEHVLVVRLLKHLHAFANSLKPDQASP
 SAHSHATSPLEEFKRAAVPRFVQKLYVFLQHCFGHWPLDASFRAVLEMWLSYLQPWRYAPEKQAQGS
 QPRCVSERWAPFIQENLLMYTKLFVSFLNLRALRTDLVSPKNALMVFRVAKVFAQPNLTEMIQKGEQLFLE
 PELIIPHRQHRLFTATSSFLSPWPPVVDASFVKSHVYSLEGQDCKYTPMGPEVRTLVRLAQLITQA
 KQTAKSISDQCVESPTGRSFLSWLGFSTDTNSWYPANDPDEMGQDSIRKTDEYLEKALEYLRQIFRLSE
 AQLAQLTLALGNARDENGKQQLPDCIVGEEGLILTPLGRYQIINGLRRFEIEYQGDLELQPIRSYEITSL
 VRALFRLSSAINRRCAGQMAALCSRNDFLGSFCRYHLTEPALSNRHLLSPVGRRQVTTTPARGPRLSLRFL
 GSYRTLKLLLMFAFFVASLFCIGPLPCSLLLVLGYILYAIAMTLLTERGKHLHQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001167806

ORF Size: 2469 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_001167806.2](#), [NP_001161278.2](#)

RefSeq Size: 3450 bp

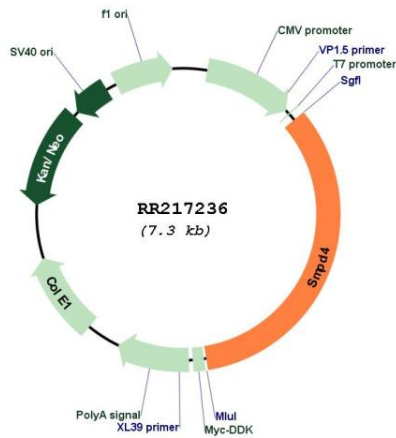
RefSeq ORF: 2472 bp

Locus ID: 303790

Cytogenetics: 11q23

MW: 93.3 kDa

Product images:



Circular map for RR217236