

Product datasheet for **MC227702**

Osbp1a (NM_001252493) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp1a (NM_001252493) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Osbp1a
Synonyms:	G430090F17Rik; Gm753; ORP-1; Osbp1b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227702 representing NM_001252493 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTGAAGGAAAAGACTGTGGTGGGGGAGATGCGCTCTCCAATGGCATCAAAAAGCACAGAACAAGCC
TGCCATCACCTATGTTCTCCAGAAACGATTTTCAGCATCTGGAGCATCCTCAGAAAATGCATTGGGATGGA
ACTGTCCAAGATCACAATGCCAGTGATATTTAATGAGCCTCTGAGCTTCTGCAGCGGCTAACTGAATAC
ATGGAGCACACGTACCTCATCCACAAAGCCAGTTCACTTTCTGATCCTGTGGAAAGGATGCAGTGTGTGG
CTGCATTTGCTGTGTCTGCTGTCGCTCTCAGTGGGAGCGCACCCGAAAGCCCTTCAACCCGCTTCTGGG
AGAGACTTATGAATTAGTTCGAGATGACCTTGGGTTTAGGCTCATCTCAGAACAGGTGAGCCATCATCCC
CCAATCAGTGCATTCCATGCAGAAGGGCTCAACAATGACTTTCATCTTCCATGGCTCAATTTACCCCAAAC
TGAAGTTCTGGGCAAGAGTGTAGAAGCAGAGCCTAAAGGAACCATCACCTTGGAGCTTTTAGACCACAA
CGAAGCATAACATGGACAAACCCACCTGTTGTGTGCATAACATCATCGTGGGCAAGCTCTGGATTGAA
CAGTATGGCAACGTGAAATCATAAACCACAAGACTGGGACAAATGTGTCTGAATTTTAAGCCATGTG
GTCTTTTGGCAAGGAATTACACAAAGTTGAAGGCTACATAAGATAAAAAGCAAAAAGAAAGCTGTGTC
TCTCTATGGGAAGTGGACTGAGTGCTTGTACAGGCTAGACCTGCCACTTTTGATGCTTACAAAAAAAT
GATAAGAAAAACAGAGAAGAGAAGAAGAACAGCAACAGACAAGCTCATCTGAGGAGTCTGATGAAATGC
CAGTGCCAGATTCGAGAGCGTATTCAATATCCCTGGAAGTGTGCTCCTGTGGCGGATAGCCCCGCGGCC
TCCCAACTCTGCTCAGATGTATAACTTTACCAGCTTTGCCATGGTTTTGAATGAAGTCGACAAGGAGATG
GAGAGTGTGATCCCAAGACTGACTGCAGGCTACGGCCTGACATCAGAGCCATGGAGAACGGAGAGATG
ATCTAGCTAGTGAAGAAAAGAACGGCTTGAGGAAAAGCAAAGAGCAGCCCGCAAGAACAGGTCCAAGTC
GGAAGAGGACTGGAAGACAAGGTGGTTCATCAAGTCTTAACCCCTACAGTGGAGCACAGGACTGGATT
TATTCTGGCAGCTACTGGACAGAACTACTTCAATTTGCCTGATATTTAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001252493
Insert Size:	1314 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001252493.1</u> , <u>NP_001239422.1</u>
RefSeq Size:	2980 bp
RefSeq ORF:	1314 bp
Locus ID:	64291
UniProt ID:	<u>Q91XL9</u>
Cytogenetics:	18 A1
Gene Summary:	<p>Binds phospholipids; exhibits strong binding to phosphatidic acid and weak binding to phosphatidylinositol 3-phosphate. Stabilizes GTP-bound RAB7A on late endosomes/lysosomes and alters functional properties of late endocytic compartments via its interaction with RAB7A. Binds 25-hydroxycholesterol and cholesterol.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (6) differs in the 5' UTR and 3' UTR, lacks a large portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. Variants 3, 4, 5 and 6 encode the same isoform (3), which has a shorter N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>