

Product datasheet for **MC227701**

Osbp1a (NM_001252492) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp1a (NM_001252492) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Osbp1a
Synonyms:	G430090F17Rik; Gm753; ORP-1; Osbp1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC227701 representing NM_001252492
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTGAAGGAAAAGACTGTGGTGGGGGAGATGCGCTCTCCAATGGCATCAAAAAGCACAGAACAAGCC
 TGCCATCACCTATGTTCTCCAGAAACGATTTTCAGCATCTGGAGCATCCTCAGAAAATGCATTGGGATGGA
 ACTGTCCAAGATCACAATGCCAGTGATATTTAATGAGCCTCTGAGCTTCCTGCAGCGGCTAACTGAATAC
 ATGGAGCACACGTACCTCATCCACAAAGCCAGTTCACCTTCTGATCCTGTGAAAGGATGCAGTGTGTGG
 CTGCATTTGCTGTGTCTGCTGTCGCCTCTCAGTGGGAGCGCACCGGAAAGCCCTTCAACCCGCTTCTGGG
 AGAGACTTATGAATTAGTTCGAGATGACCTTGGGTTTAGGCTCATCTCAGAACAGGTGAGCCATCATCCC
 CCAATCAGTGCATTCCATGCAGAAGGGCTCAACAATGACTTCATCTTCCATGGCTCAATTTACCCCAAAC
 TGAAGTTCTGGGCAAGAGGTGAGAAGCAGAGCCTAAAGGAACCATCACCTTGGAGCTTTTAGACCACAA
 CGAAGCATACACATGGACAAACCCACCTGTTGTGTGCATAACATCATCGTGGCAAGCTCTGGATTGAA
 CAGTATGGCAACGTGAAATCATAAACCACAAGACTGGGACAAAATGTGTGCTGAATTTTAAAGCCATGTG
 GTCTTTTGGCAAGGAATTACACAAAGTTGAAGGCTACATACAAGATAAAAGCAAAAAGAAGCTCTGTGC
 TCTCTATGGGAAGTGGACTGAGTGTGTACACGCTAGACCCTGCCACTTTTGTGCTTACAAAAAAAT
 GATAAGAAAAACACAGAAGAGAAGAAGAACAGCAACAGACAAGCTCATCTGAGGAGTCTGATGAAATGC
 CAGTGCCAGATCCGAGAGCGTATTCATTATCCCTGGAAGTGTGCTCCTGTGGCGGATAGCCCCGCGGCC
 TCCCAACTCTGCTCAGATGTATAACTTTACCAGCTTGGCCATGGTTTTGAATGAAGTCGACAAGGAGATG
 GAGAGTGTGATCCCAAGACTGACTGCAGGCTACGGCCTGACATCAGAGCCATGGAGAACGGAGAGATAG
 ATCTAGCTAGTGAAGAAAAGAACGGCTTGAGGAAAAGCAAAGAGCAGCCCGCAAGAACAGGTCCAAGT
 GGAAGAGGACTGGAAGACAAGGTTCATCAAGGTCCTAACCCCTACAGTGGAGCACAGGACTGGATT
 TATTCTGGCAGCTACTGGGACAGAACTACTTCAATTTGCCTGATATTTAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001252492
- 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_001252492.1</u> , <u>NP_001239421.1</u>
RefSeq Size:	3072 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 (5) differs in the 5' 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.</p>