

## Product datasheet for **MC227699**

### **Osbp1a (NM\_001252490) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Osbp1a (NM_001252490) 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:** >MC227699 representing NM\_001252490  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTGAAGGAAAAGACTGTGGTGGGGGAGATGCGCTCTCCAATGGCATCAAAAAGCACAGAACAAGCC  
 TGCCATCACCTATGTTCTCCAGAAACGATTTTCAGCATCTGGAGCATCCTCAGAAAATGCATTGGGATGGA  
 ACTGTCCAAGATCACAATGCCAGTGATATTTAATGAGCCTCTGAGCTTCCTGCAGCGGCTAACTGAATAC  
 ATGGAGCACACGTACCTCATCCACAAAGCCAGTTCACCTTCTGATCCTGTGAAAGGATGCAGTGTGTGG  
 CTGCATTTGCTGTGTCTGCTGTCGCCTCTCAGTGGGAGCGCACCGGAAAGCCCTTCAACCCGCTTCTGGG  
 AGAGACTTATGAATTAGTTCGAGATGACCTTGGGTTTAGGCTCATCTCAGAACAGGTGAGCCATCATCCC  
 CCAATCAGTGCATTCCATGCAGAAGGGCTCAACAATGACTTCATCTTCCATGGCTCAATTTACCCCAAAC  
 TGAAGTTCTGGGCAAGAGGTGTAAGAGCAGAGCCTAAAGGAACCATCACCTTGGAGCTTTTAGACCACAA  
 CGAAGCATACACATGGACAAACCCACCTGTTGTGTGCATAACATCATCGTGGCAAGCTCTGGATTGAA  
 CAGTATGGCAACGTGAAATCATAAACCACAAGACTGGGACAAAATGTGTGCTGAATTTTAAAGCCATGTG  
 GTCTTTTTGGCAAGGAATTACACAAAGTTGAAGGCTACATACAAGATAAAAGCAAAAAGAAGCTCTGTGC  
 TCTCTATGGGAAGTGGACTGAGTCTTGTACAGCGTAGACCCTGCCACTTTTGTGCTTACAAAAAAAT  
 GATAAGAAAAACACAGAAGAGAAGAAGAACAGCAACAGACAAGCTCATCTGAGGAGTCTGATGAAATGC  
 CAGTGCCAGATCCGAGAGCGTATTCATTATCCCTGGAAGTGTGCTCCTGTGGCGGATAGCCCCGCGGCC  
 TCCCAACTCTGCTCAGATGTATAACTTTACCAGCTTGGCCATGGTTTTGAATGAAGTCGACAAGGAGATG  
 GAGAGTGTGATCCCAAGACTGACTGCAGGCTACGGCCTGACATCAGAGCCATGGAGAACGGAGAGATAG  
 ATCTAGCTAGTGAAGAAAAGAACGGCTTGAGGAAAAGCAAAGAGCAGCCCGCAAGAACAGGTCCAAGT  
 GGAAGAGGACTGGAAGACAAGGTTCATCAAGGTCCTAACCCCTACAGTGGAGCACAGGACTGGATT  
 TATTCTGGCAGCTACTGGGACAGAACTACTTCAATTTGCCTGATATTTAT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001252490
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001252490.1, NP_001239419.1</u>
<b>RefSeq Size:</b>	2703 bp
<b>RefSeq ORF:</b>	1314 bp
<b>Locus ID:</b>	64291
<b>UniProt ID:</b>	<u>Q91XL9</u>
<b>Cytogenetics:</b>	18 A1
<b>Gene Summary:</b>	<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 (3) 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>