

Product datasheet for **MC228301**

Osbp1a (NM_001252489) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp1a (NM_001252489) 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



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Fully Sequenced ORF: >MC228301 representing NM_001252489
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCCATCGTTTCTTCAGAAAGCTGATATTGTCTCCGAAGCTTCTAGAGAGACTTGTGTGGCGTTGA
 ATGACTGTCTTAATCTCTTCACTAAACAGGAAGGGGTGAGGAATTTTAAATTGGAACAGGAGCAAGAAAA
 AAACAAAATTTTGTGAGAAGCACTGGAGACTTTAGCCACTGAGCATCATGAACTAGAACGATCCCTGGTT
 GAAGGATCCCGCCTGTGAGCATCCTTAGTGAGGAGGAGTTCTATGATGCACTGTCAGGTTCCGAGTCCG
 AGGGGTGCTGACTTGCCTGGAAGCTGTGACAGCACACTCCTTTGAAGAGAACGAAGTGCCTGGGAGCAG
 CGGAAAGCACAGAATGTCTGAAGAAAAGACTGTGGTGGGGGAGATGCGCTCTCCAATGGCATCAAAAA
 CACAGAACAAGCCTGCCATCACCTATGTTCTCCAGAAACGATTTGAGCATCTGGAGCATCCTCAGAAAAT
 GCATTGGGATGGAAGTCCAAGATCACAATGCCAGTGATATTTAATGAGCCTCTGAGCTTCTGCAGCG
 GCTAACTGAATACATGGAGCACAGTACCTCATCCACAAAGCCAGTTCACCTTTCTGATCCTGTGAAAGG
 ATGCAGTGTGTGGCTGCATTTGCTGTGTCTGCTGTGCGCTCTCAGTGGGAGCGCACCGGAAAGCCCTTCA
 ACCCGCTTCTGGGAGAGACTTATGAATTAGTTCGAGATGACCTTGGGTTTAGGCTCATCTCAGAACAGGT
 CAGCCATCATCCCCAATCAGTGCAATCCATGCAGAAGGGCTCAACAATGACTTCATCTTCCATGGCTCA
 ATTTACCCCAAATGAAGTTCTGGGGCAAGAGTGTAGAAGCAGAGCCTAAAGGAACCATCACCTTGGAGC
 TTTTAGACCACAACGAAGCATACACATGGACAAACCCACCTGTTGTGTGCATAACATCATCGTGGGCAA
 GCTCTGGATTGAACAGTATGGCAACGTGGAATCATAAACCACAAGACTGGGGACAAATGTGTGCTGAAT
 TTTAAGCCATGTGGTCTTTTGGCAAGGAATTACACAAAGTTGAAGGCTACATAACAAGATAAAAGCAAAA
 AGAAGCTCTGTGCTCTCTATGGGAAGTGGACTGAGTGTGTTGACAGCGTAGACCCCTGCCACTTTTGTGTC
 TTACAAAAAAATGATAAGAAAAACAGAAAGAGAAGAAGAAGCAAGCAAAACAGACAAGCTCATCTGAGGAG
 TCTGATGAAATGCCAGTGCCAGATTCCGAGAGCGTATTCAATATCCCTGGAAGTGTGCTCTGTGGCGGA
 TAGCCCGCGGCCTCCCAACTCTGCTCAGATGTATAACTTTACCAGCTTTGCCATGGTTTTGAATGAAGT
 CGACAAGGAGATGGAGAGTGTGATTCCCAAGACTGACTGCAGGCTACGGCCTGACATCAGAGCCATGGAG
 AACGGAGAGATAGATCTAGCTAGTGAAGAAAAGAAACGGCTTGAGGAAAAGCAAAGAGCAGCCCGCAAGA
 ACAGGTCCAAGTCGGAAGAGGACTGGAAGACAAGGTGGTCCATCAAGGTCTAACCCCTACAGTGGAGC
 ACAGGACTGGATTTATTCTGGCAGCTACTGGGACAGAACTACTCAATTTGCTGATATTTATTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001252489
- Insert Size:** 1677 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:

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_001252489.1](#), [NP_001239418.1](#)

RefSeq Size: 2829 bp

RefSeq ORF: 1677 bp

Locus ID: 64291

UniProt ID: [Q91XL9](#)

Cytogenetics: 18 A1

Gene Summary: 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]

Transcript Variant: This variant (2) 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. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.