

Product datasheet for **MC201542**

Osbp12 (NM_144500) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp12 (NM_144500) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Osbp12
Synonyms:	C130070J12Rik; mKIAA0772; ORP-2; Orp2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC026804 sequence for NM_144500
 CCGACGCGTGGGTCCGCGGGCCGCACTTCCGCTTGGGTGTGAGAGGGTTGCCGGCTGCGGTGCGGGGCGG
 GGCGGCCGTGGGGTGGCGGACTCCGCGGGGACCGGTTCCGATTTCCAGGATCCACACAACCTTCAACATA
 AATATAGATCAGATATGATCCAGTAGGAGGACCAACCCAGAACAGTGACAGTCTTGTCACTGAAGGAT
 GAACGGGGAGGAAGAATCTTTGATGCCGTTACAGGCTTGTATTCTGATAATTCTCTACAGGGGAATTT
 TCAGAGGCAAATAAAATTAGTGGGATGATTGACTTGGATACCAGCAAAAGTACTAGGAGTGGGAAAAATG
 GGGAGAAAACCAACAAGAGAATGGAATTCAAAAGCACAGGACAGCCCTTCTGCTCCCATGTTCCACCAG
 AAGCGACTTCAGTGTGGAGTATCCTGAAGAAATGCATTGGCTTGGAACTCTCCAAGATACAATGCCA
 ATTGCCTTCAATGAGCCACTGAGCTTCTGCGAGCGGATCACAGAGTACATGGAGCATGTGTACCTCATTC
 ACAAAGCCTCAAGTCAGTCCCAGCCGCTGGAGAGAATGCAGTCTGTGCTGCCTTTGCGGTCTCAGCTGT
 GGCTTCCAGTGGGAGAGAACTGGCAAACCTTTAACCCACTCTTGGGAGAGACATATGAGTTGATCAGG
 GAAGACTTAGGGTTCAGATTTATATCTGAGCAGGTCAGTACCACCCTCTATTAGCGCATTTTATTTCAG
 AAGGTCTCAATCAAGACTTCAGTTCACGTTCCATCTACCCAAAGCTGAAGTCTGGGCAAGAGTGT
 GGAGCGGAGCCCGGGGACCATCACACTGGAGCTGCTCAAACATAATGAAGCCTATACCTGGACCAAC
 CCTACCTGCTGTACACAATGTATCCTTGGGCAGCTATGGATAGAGCAGTATGGGATAGTGGAGATTG
 TAAATCACAGAAGTGGAGATAAGTGTATACTTCAAGCCTTGTGGATTGTTTGGGAAGGAACCTTCA
 CAGAGTAGAAGGGTACATTCAAGACAAAACAGGAAGAAGCTCTTTATCATGTATGGCAAGTGGACAGAG
 TGCTTGTGGGGAATAGATCCTGCTTCATACGAGTCTTTAAGAAGCAAGAGAAGAGAGGTGACCAGGCCA
 GGAAGGCCAAGATGGATGATGGCCCCGAGAAAGCTAACAGTGTGTGCCTGGTGTGTGGCAGACGACGT
 TCCTGTGGCTCAGGAGACGGTGAAGTCATCCCGGCAGCAAGCTGCTCTGGAGGATCAACAGCCGGCCC
 CCCAACTCTGCTCAGATGTACAACCTTTACCAGCTTCACTGTGAGTCTCAATGAGTGGAGTCAAGCATGG
 AGAAGACTCTGCCACCCACAGACTGCCGCTCCGTCCTGACATACGAGGCATGGAGAACGGAAACATGGA
 TCTGGCCAGCCAGGAGAAGGAGCGGCTAGAGGAAAAGCAGAGAGAGGCCAGAAAAGAGCGTGCCAAAGAG
 GAGCGAGAGTGGCGGACCAGGTGTTCTCTCCAGGCAATAACCCCTACACAGGAGCTCTGACTGGCTGT
 ACGCCGGCCATTACTTTGAGCGTAACTTCTCAGACTGCCAGACATATACTAAGGCTGTGAGCCAGGA
 GCAGCCTTGAATCCTCAATAGCATCTGAGCTTTATGGTGGCAGACACCACAAATCATGGAGATAGCCT
 CGGACGTGACAGAGGCCCTCAGAGAGCCTCAGATTGCCAGTGCCTCACTATGTTGCAGCCCTTCATGA
 AGCTCCAGTTGGGTCTTTCTAGTCACTGAGGCCTCAGAACTCCACAGTCTTTCTAGATGACAGAGTGT
 AAAAGGCCAGCAGAGCTGGCAGCACACTCTGTTATAAAATGTATAATGAAGGAAGACCCAGCAGGGCCTG
 TGTGTTCCACTCAAGGCTGTGGCGTGGGTTCTGGAAGACTTTCAAACCTCAGACCAAGGAGGAGGGGAGC
 ATGGATCTGGAAGTGTCTGTGGCCAGGGTCCCCTTCTTTGTGGAATGAAGTGACAAGCCTCCAGATTC
 TGTATTTTCTACCAATCTTGAATAAGGTAAGATGACTTTAGAAAATATTTAAATTTGAAACTACTTGAAT
 TATCTGCTAAAAGTGCAGCAAACACATAATCACCCTGTGTACCGTCCAAACAAAGTGTCCCGTGGCAAG
 CCAGAGTGGCAGGAACACTGTGACTTAGATGAGGAACCCCGAGGGCCGCTCCAGCCTCGAAGGCCCTGCC
 TCATCCACAGCGCTCCATAGCTTCACTGTCACTGTGGACCACACCTGTCTTAAGGTCATTTCTTCACTC
 ACCTCGCTGTGTGCCCTCCCTGCTCCCCAAAGTCTTGTGTTCCGGTTCGCCAGTGTGCATGTTTCAGTC
 CAGGCAAGTTACATTCGGTTGTGTGCAATAGAAGTGCAGAAGCAAGATCTTACCTGGTGCATTAATAAT
 GTTTTAAACACAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_144500

Insert Size: 1455 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).

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: [BC026804](#), [AAH26804](#)

RefSeq Size: 2544 bp

RefSeq ORF: 1455 bp

Locus ID: 228983

UniProt ID: [Q8BX94](#)

Cytogenetics: 2 H4

Gene Summary: Intracellular transport protein that binds sterols and phospholipids and mediates lipid transport between intracellular compartments. Increases plasma membrane cholesterol levels and decreases phosphatidylinositol-4,5-bisphosphate levels in the cell membrane. Binds phosphoinositides, such as phosphatidylinositol-4,5-bisphosphate. Exhibits strong binding to phosphatidic acid and weak binding to phosphatidylinositol 3-phosphate. Binds cholesterol, dehydroergosterol, 22(R)-hydroxycholesterol and 25-hydroxycholesterol (in vitro). [UniProtKB/Swiss-Prot Function]