

## Product datasheet for **MC221768**

### Osbp (NM\_001033174) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp (NM_001033174) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Osbp
Synonyms:	1110018F06Rik; AW559088; mKIAA4220
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221768 representing NM\_001033174  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCGACCGAGCTGAGAGGAGTGGTGGGGCCGGGCCGGCAGCCATCGCGGCTCCGGGCGGCGGC  
 GCGCGGGTCCACCCGCGGTGGGAGGCGGCGGACGCGGGGACGCGGGGCCGGCCCGGGGTGGCGGC  
 CGCGACGGCGGCGACGGCGGGCGGCCGGGCCCGGGGCCGGAGGAGTGGCGGCAGGCGGCCGGCTCT  
 GCACCGCCAGCCGCGGGCTCGGGCGGTTGCGGCGCCGGGGCTCGGGCTCGGCTAGAGAGGGCTGGCTCT  
 TCAAATGGACCAATTACATCAAAGGCTACCAGCGCGATGGTTCTGTGCTGAGCAACGGGCTCCTAAGCTA  
 CTACAGGTCCAAGGCAGAGATGAGACACACCTGCCGAGGTACCATCAACCTCGCCACAGCCAACATCACT  
 GTGGAGGACTCTGCACTTCATCATCTCCAATGGCGGTGCTCAGACCTACCACTGAAGGCCAGCTCCG  
 AAGTAGAGCGTCAGCGCTGGGTGACAGCCTTAGAACTGGCCAAGGCCAAGGCTGTGAAGATGCTGGCCGA  
 ATCAGATGACTCAGGAGATGAAGAGTCTGTCTCACAGACTGACAAGACCGAGCTCCAGAGCACCTGCGA  
 ACACTCTCCAGCAAAGTGGAGGACCTCAGCACGTGCAACGACTTGATAGCTAAGCATGGCACCGCCCTGC  
 AGCGTTCCCTCAGTGAGCTGGAGTCCCTGAAGTGCCTGCTGAGAGCAATGAGAAAATCAAGCAGGTCAA  
 TGAACGAGCCACGCTTTTTAGGATAACATCCAATGCCATGATCAATGCTTGCAGAGATTTCTCATGTTA  
 GCCCAGACACACAGTAAGAAGTGGCAGAAGTCACTACAGTATGAAAGAGACCAGCGAATCCGACTGGAAG  
 AAATCTTGAGCAGCTGGCAAAGCAGCAATCACCTGGAGAGAGCCTTCCGGGGAGCCACAGTGTGCC  
 AGCAAACCTCCGGGCAGCGCTGGTCTGGTAAAGATCAGTGTGTTCTGGCAAAGGGGACATGAGCGAT  
 GAAGATGACGAGAATGAGTTTTTTGATGCACCAGAGATTATCACCATGCCTGAAAATTTGGGCCACAAAC  
 GTACTGGCAGCAATATCAGTGGGCCAGCAGTGTGTCAGCCTTGATGAACAGTACAAGCATCAGTGGGA  
 GGAGACCAAGAAGGAAAAGAGAACCAGAATACCATATAAGCCAAACTACAGCCTCAACTTGTGGAGCATC  
 ATGAAGAAGTGCATTGGAAGGAGCTCTCTAAGATCCCAATGCCGGTAAACTTTAATGAGCCCTTGTTCCA  
 TGCTTCAGCGCCTTACTGAAGATCTGGAGTACCATGAGCTGTTAGACAGAGCTGCAAAGTGTGAGAACTC  
 TCTAGAACAGCTCTGCTATGTTGCAGCCTTCACTGTTTCTCTCTATTCCACTACCGTCTTCCGAACCAGC  
 AAGCCATTCAACCCTCTCTTGGGGAGACATTTGAACTGGACCGACTGGAGGAGAATGGGTATCGGTCCA  
 TCTGTGAGCAGGTGAGTCATCATCCCCCTGCTGCTGCGCACCATGCTGAATCCAAAATGGCTGGACATT  
 GCGTCAGGAAATTAATAACACCAGCAAGTTTCGAGGCAAATACCTCTCCATTATGCCCTTGGTACTATC  
 CACTGCATTTTCCACTCAACTGGCACCATTACACTTGGAAAAAGTTACCACAACAGTACACAACATTA  
 TTGTGGGCAAGTTGTGGATAGATCAGTCTGGTGAGATTGACATTGTAATCACAAGACAGGAGACAAGTG  
 TAATCTTAAATTTGTTCCCTTATAGTACTTCTCTCGGGATGTAGCAAGAAAGGTGACAGGTGAAGTGACA  
 GACCCATCAGGAAAAGTTCACTTTGCCCTCCTGGGGACATGGGATGAGAAAATGGATTGTTTCAAAGTAC  
 AGGCAGCCTCCGGGGAGAATGGGGTGATGCTCGGCAGAGAGGCCATGAAGCAGAAGACAGCAGGGTCAT  
 GCTGTGGAAGAGGAACCCATTACCGAAGAATGCAGAGAACATGTACTACTTCTCAGAGCTTGCCCTCACT  
 CTCAATGCCTGGGAAGGTGGCACTGCTCCCACGGACAGCCGGCTGCGGCCGACCAGAGACTCATGGAAA  
 ACGGGCGTTGGGATGAAGCAAAATGCTGAGAAGCAGCGCCTGGAGGAGAAAACAGCGGCTTTCCAGGAAGAA  
 GAGAGAAGCAGAAGCTGCGAAAGCCACGGAAGATGGCACACCACATGACCCCTATAAAGCACTGTGGTTT  
 GAGCGGAAGAAGGACCCTGTACCAGGGAGCTAACCCATATTTATAGTGGCGAGTACTGGGAATGTAAGG  
 AAAAGCAGGACTGGGGTCTTGCCAGATATTTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001033174  
**Insert Size:** 2418 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<a href="#">NM_001033174.1</a> , <a href="#">NP_001028346.1</a>
<b>RefSeq Size:</b>	4590 bp
<b>RefSeq ORF:</b>	2418 bp
<b>Locus ID:</b>	76303
<b>UniProt ID:</b>	<a href="#">Q3B7Z2</a>
<b>Cytogenetics:</b>	19 8.58 cM
<b>Gene Summary:</b>	Lipid transporter involved in lipid countertransport between the Golgi complex and membranes of the endoplasmic reticulum: specifically exchanges sterol with phosphatidylinositol 4-phosphate (PI4P), delivering sterol to the Golgi in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds cholesterol and a range of oxysterols including 25-hydroxycholesterol. Cholesterol binding promotes the formation of a complex with PP2A and a tyrosine phosphatase which dephosphorylates ERK1/2, whereas 25-hydroxycholesterol causes its disassembly. Regulates cholesterol efflux by decreasing ABCA1 stability.[UniProtKB/Swiss-Prot Function]