

## Product datasheet for **MR229911**

### **Osbp1a (NM\_001252491) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Osbp1a (NM_001252491) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR229911 representing NM\_001252491  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTGAAGAAAAGACTGTGGTGGGGAGATGCGCTCTCCAATGGCATCAAAAAGCACAGAACAAGCC  
 TGCATCACCTATGTTCTCCAGAAACGATTTACAGCATCTGGAGCATCCTCAGAAAATGCATTGGGATGGA  
 ACTGTCCAAGATCACAATGCCAGTGATATTTAATGAGCCTCTGAGCTTCCTGCAGCGGCTAACTGAATAC  
 ATGGAGCACACGTACCTCATCCACAAAGCCAGTTCACCTTCTGATCCTGTGAAAGGATGCAGTGTGTGG  
 CTGCATTTGCTGTGTCTGCTGTCGCTCTCAGTGGGAGCGCACCGGAAAGCCCTTCAACCCGCTTCTGGG  
 AGAGACTTATGAATTAGTTCGAGATGACCTTGGGTTTAGGCTCATCTCAGAACAGGTGAGCCATCATCCC  
 CCAATCAGTGCATTCCATGCAGAAGGGCTCAACAATGACTTCATCTTCCATGGCTCAATTTACCCAAAC  
 TGAAGTTCTGGGCAAGAGTGTAGAAGCAGAGCCTAAAGGAACCATCACCTTGGAGCTTTTAGACCACAA  
 CGAAGCATACACATGGACAAACCCACCTGTTGTGTGCATAACATCATCGTGGCAAGCTCTGGATTGAA  
 CAGTATGGCAACGTGAAATCATAAACCACAAGACTGGGGACAAATGTGTGCTGAATTTTAAAGCCATGTG  
 GTCTTTTGGCAAGGAATTACACAAAGTTGAAGGCTACATACAAGATAAAAGCAAAAAGAAGCTCTGTGC  
 TCTCTATGGGAAGTGGACTGAGTGTGTACACGCTAGACCCTGCCACTTTTGTGCTTACAAAAAAAT  
 GATAAGAAAAACACAGAAGAGAAGAAGAAGCAAGCAAGCTCATCTGAGGAGTCTGATGAAATGC  
 CAGTGCCAGATCCGAGAGCGTATTCAATATCCCTGGAAGTGTGCTCCTGTGGCGGATAGCCCCGCGGCC  
 TCCCAACTCTGCTCAGATGTATAACTTTACCAGCTTGGCCATGGTTTTGAATGAAGTCGACAAGGAGATG  
 GAGAGTGTGATCCCAAGACTGACTGCAGGCTACGGCTGACATCAGAGCCATGGAGAACGGAGAGATAG  
 ATCTAGCTAGTGAAGAAAAGAAACGGCTTGAGGAAAAGCAAAGAGCAGCCCGCAAGAACAGTCCAAGTC  
 GGAAGAGGACTGGAAGACAAGGTGTTCCATCAAGGTCCCTAACCCCTACAGTGGAGCACAGGACTGGATT  
 TATTCTGGCAGCTACTGGGACAGAACTACTTCAATTTGCCTGATATTTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR229911 representing NM\_001252491  
 Red=Cloning site Green=Tags(s)

MSEGKDCGGGDALSNGIKKHRTSLPSPMFSRNDFSIWSILRKCIGMELSKITMPVIFNEPLSFLQRLTEY  
 MEHTYL IHKASSLSDPVERMQCVAAFAVSAVASQWERTGKPFNPLLGETYELVRDDLGFRLISEQVSHHP  
 PISAFHAEGLNNDFI FHGSIYPKLKFVGKSVEAEPKGTITLELLDHNEAYTWNPTCCVHNIIVGKLWIE  
 QYGNVEIINHKTGDKCVLNFKPCGLFGKELHKVEGYIQDKSKKKLCALYGWTECLYSVDPATFDAYKKN  
 DKKNTEEEKNSKQTSSEESDEMPVPDSESVFIIPGSVLLWRIAPRPPNSAQMYNFTSFAMVLNEVDKEM  
 ESVIPKTDCLRPDIRAMENGEIDLASEEKKRLEEKQRAARKNRKSEEDWKTRWFHQGPNPYSGAQDWI  
 YSGSYWDRNYFNLPDIY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001252491

**ORF Size:** 1311 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001252491.1](#), [NP\\_001239420.1](#)

**RefSeq Size:** 2909 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 64291

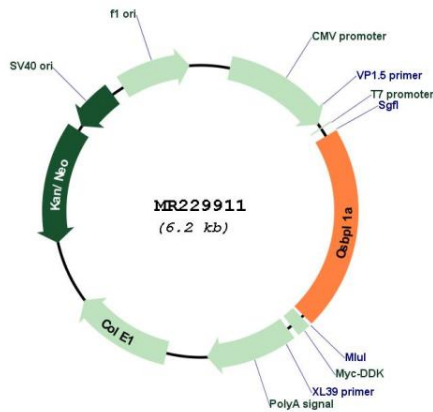
**UniProt ID:** [Q91XL9](#)

**Cytogenetics:** 18 A1

**MW:** 50.5 kDa

**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]

**Product images:**



Circular map for MR229911