

## Product datasheet for **MR216389**

### **Osbp13 (NM\_001163645) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Osbp13 (NM_001163645) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Osbp13
Synonyms:	1200014M06Rik; 6720421I08Rik; A530055M08; ORP-3; ORP3; OSBP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216389 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGACGAGAAGAATCTCGGTGTGTCTCAAAGTTGGTTTACCTTCAAGAAGCACAAGTAGTTGCT  
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 CGTCACCACAGAATGTACCGGCAGAATGAGATCGCCATGTTTCCCGGGATGTCAATCACTTTTTCTCAG  
 GGTCTCTGTACAGATTCTGCCCCAGGAGTGTTCGAGTCAGTTCCAGTAGGAAGCGTAGCAGTCTATC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:**

>MR216389 protein sequence  
 Red=Cloning site Green=Tags(s)

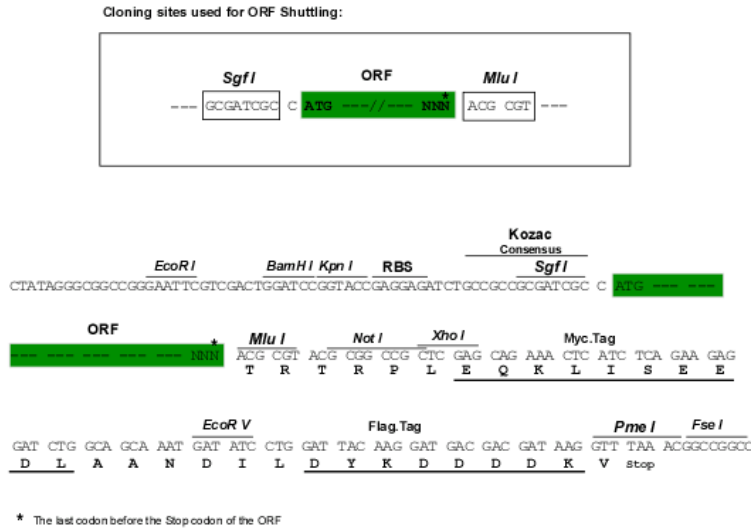
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MSDEKNLGVSQLVSPSRSTSSCSSKQGSRQDSWEVVEGLRGEMTYTQEPPVQKGFLLKKRKWPLKGWHK
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WIEHYGEIDIKNLNDDSCHCKVNFIAKAYWSTNAHEIEGTVFDRSGKAVHRLFGKWHESIYCGGASSTC
VWRANPMPKGYEQYYGFTQFALELNEMDPLSRSLLPPTDTRFRPDQRLLSEENIEEAQVQKQRIEKLQRE
RRRVLEENGVEHQPRFFRKSSDDAWVSNGTYLELRKDLGFSKLDHPVLW
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001163645

ORF Size: 2457 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\\_001163645.1](#), [NP\\_001157117.1](#)

**RefSeq Size:** 6779 bp

**RefSeq ORF:** 2460 bp

**Locus ID:** 71720

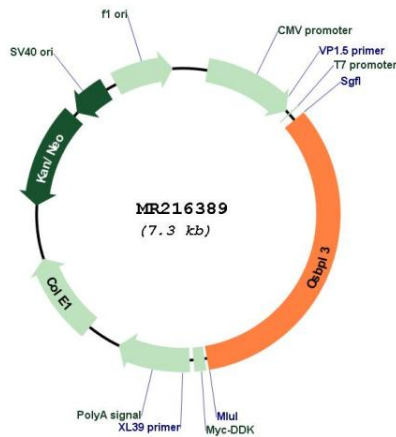
**UniProt ID:** [Q9DBS9](#)

**Cytogenetics:** 6 B2.3

**MW:** 93 kDa

**Gene Summary:** Phosphoinositide-binding protein which associates with both cell and endoplasmic reticulum (ER) membranes. Can bind to the ER membrane protein VAPA and recruit VAPA to plasma membrane sites, thus linking these intracellular compartments. The ORP3-VAPA complex stimulates RRAS signaling which in turn attenuates integrin beta-1 (ITGB1) activation at the cell surface. With VAPA, may regulate ER morphology. Has a role in regulation of the actin cytoskeleton, cell polarity and cell adhesion. Binds to phosphoinositides with preference for PI(3,4)P2 and PI(3,4,5)P3. Also binds 25-hydroxycholesterol and cholesterol.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR216389