

Product datasheet for **MC220828**

Osbp13 (BC086485) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp13 (BC086485) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Osbp13
Synonyms:	ORP3, OSBP3, A530055M08
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC086485
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGACGAGAAGAATCTCGGTGTGTCTCAAAGTTGGTTTCACCTTCAAGAAGCACAAAGTAGTTGCT
 CCTCCAAGCAAGGAAGCCGGCAGGACAGCTGGGAAGTCGTGGAAGGATTGAGAGGGGAAAAGACTTACAC
 CCAGGAGCCGCCAGTGCAGAAAGGATTTTTGCTGAAAAAGAGGAAGTGGCCCTTAAAAGGCTGGCACAAG
 AGATTCTTCTGCCTGGAAAAGGGAATCTTGAAATATGCCAAGAGCCAAGCTGATATTGAGCGGGAGAAGT
 TGCATGGCTGCATTGACGTGGGGCTCTCTGTGATGTCTGTGAAGAAGTCGTCTAAGTGTATCGACCTAGA
 CACGGAGGAGCACATCTACCACCTGAAGGTGAAGTCAGAAGAAGTCTTTGACGAGTGGGTGTCCAAGCTC
 CGTCACCACAGAATGTACCGGCAGAATGAGATCGCCATGTTTCCCGGGATGTCAATCACTTTTTCTCAG
 GGTCTCTGTACAGATTCTGCCCCAGGAGTGTTCGAGTCAGTTCCAGTAGGAAGCGTAGCAGTCTATC
 AAAGCAGAATTCATTTCCACCCGAAGCAATTTGTCATTTCTTGTGGTGGCGACTCGAGTTCCTTTTC
 TGGCTACAGTCTTCAGAGGACATGGAAAAATGTTCAAAGACCTGGCACACTGCCATGCCTACCTGCCTGG
 AAATGAGCCAGCTCTTAGAAAGCATGGACGTCCTGCATCGGACATACTCGGCGCCAGCCATCAACGCCAT
 CCAGGTCCTAAGCCTTTTTCTGGCCCTGTGAGACTGCACTCCTCCAATCCTAATTGTGCGACGCTGGAC
 TTTGGAGAAGAGAAGTCTTACTCGGATGGTTCTGAAGCCTCGTCGGAGTTCTCCAAGATGCAGGAGGATC
 TGTGCCATGTGCGCCACAAAAGTTTACTTCGCTTAAAGTTCGGCTTCAATAGCATATCGTGGAGAGAGA
 GAAACTGAAGCAGCTGATGGAGCTGGACACCTCCCCCTCCCCCTCCGCTCAGGTCGTGGGCTGAAGCAC
 GCTCTGTATCCGAAAACCTCCAGGGATGAGGGCCGAGCCCTGGTGACCAGCTCTCCAATGAGAGCAGGC
 TGCTATCACCGACTCCCTTTCTGAGTTCCTCGATGCCAGGAAGTTCTGCTGTCTCCTAGCTCTTCAGA
 AAACGAGATTTCTGATGATGATTCATACGTCAGTGACATAAGTGATAATCTGTCCTTAGACAACCTCAGT
 AATGATTTAGACAATGAAAGACAGACCTTGGGGCTGTTCTCGAGAGTAGTGGGAAGCCAGATCCAAAA
 GGAGGACCAGCTTGCCGGCACCGGGTCCCAACACCAGTAGCGTTAGCTTGTGGAGCATCTGCGCAACAA
 CATTGGGAAGGACCTGTCCAAGGTGGCCATGCCGGTGGAGCTGAACGAGCCCTGAACACGCTGCAGCGG
 CTCTGCGAGGAGCTGGAATACAGCGAGCTTCTGGACAAGGCTCGAGAATCCCCAGTCCCCTGGAGAGGA
 TGGTGTACGTAGCAGCCTTCGCCATCTCCGCATATGCATCCAGCTACTCCGAGCAGGCAGCAAGCCGTT
 TAACCCGGTCTTGAGAAAACGTACGAATGCATCCGACAGGACAAGGGTTTCCAGTTTTTGGCAGCAG
 GTCAGCCACCACCACCTATCTCCGCTGCCACGCTGAGTCCGAAAACCTTGTCTTCTGGCAAGATGTGA
 GATGGAAAAATAAATCTGGGGTAAATCCATGGAAATGTCCCGATTGGACAACCCACGTGACTCTGCC
 TGCTTTTGGAGATCACTTTGAGTGGAAACAAAGTAACTCCTGCATCCACAACATCTTGAGCGGACAGCGA
 TGGATCGAGCACTATGGCGAAATTGACATCAAGAACCTGAATGACGACTCCTGCCACTGCAAAGTGAAC
 TCATAAAGGCTAAGTACTGGAGCACTAATGCCACGAGATCGAAGGCACGGTGTTCGACCGCAGTGGGAA
 GGCTGTGACCCGGCTGTTTGGGAAATGGCACGAGAGCATCTACTGTGGCGGCGCCTCCTCTCCACATGC
 GTCTGGAGAGCAAATCCCATGCCGAAAGGCTATGAGCAGTATTATGGCTTACACAGTTTGCCTAGAGT
 TAAATGAAATGGATCCTTTGTCAAGTCTTTATTACCACCACCGACACTCGGTTTAGACCAGATCAAAG
 GCTTCTAGAGGAAGGGAACATAGAGGAGGCTGAGGTTCAGAAGCAGAGGATCGAGAAGTGCAGAGAGAG
 CGGCGGAGGGTCTTGGAGGAGAACGGTGTGGAGCACCGCCCGGTTTTTTCAGGAAATCCAGTGACGATG
 CTTGGGTAAAGCAATGGGACCTACCTGGAAGTGGGAAAGACCTTGGCTTTTCCAAGTTGGACCATCCCGT
 CTTATGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC086485
Insert Size: 2460 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:	<ol style="list-style-type: none">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:	BC086485 , AAH86485
RefSeq Size:	3233 bp
RefSeq ORF:	2459 bp
Locus ID:	71720
Cytogenetics:	6 B2.3
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]