

Product datasheet for **MG209222**

Osbp10 (BC027256) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp10 (BC027256) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Osbp10
Synonyms:	4933433D06Rik; C820004B04Rik; OPR-10; ORP-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209222 representing BC027256
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATGAGTTCCAAGACTACTCCAGGCTCCCGCAGCCGAAGCCTCACTTTGCTCCCCATGGAACAC
 CCAGTTCTGCGTCTCCCTGTAGCCAGAGACATCTCAGTACGGGCGCCCCGGTGTGTCTCAGTCACGCG
 TCACAAGTCGCTGCAGCTGCCCGAAGAGCCAAGAGTCAGTATTCGGCCAGCTTACGAAGTCAGAGAG
 ATGATGAACCAGGTGGAAGGCCAGCAGAAGAACCTCGTGCATGCCATTGAGTCCCTGCCAGGCTCGGGCC
 CCCTCACTGCCTTGGACCAGGACCTGCTTCTCCTGAAGGCTACCTCTGCCGCCACCCTCAGCTGTCTCGG
 GGAGTGCCTCAGCCTGCTTCAGCAGAGTGTGCGCCAGGCAGCGCCACCCAGCCACAAGCCAGGCGCCTCA
 GAGACCATCTGGGATGGCATGGGCCACGTACATTCCACAGACCAACTGAAAAATGGGACCCTCGGCT
 CTCTACCTCCGCCAGTGCCAACATAACATGGGCGATTCTACAAACTCTGCAGAAGAGGAACAACA
 ACAGCCGGAGCCAGAGCCAGACTCAGGCCCTGAACTGGTTTTGTCCGAAGAAGAAGAGCGACAATGAG
 GACAAGGGAGAGGTGGAGCCGGGCGCCATGGAGGATCAGCGTAGTGTGATCCTCCACCTCATCTCGCAGC
 TCAAGCTGGGCATGGACCTGACCAAGGTGGTGGTCCCCACGTTTATTCTGGAGAAGCGGTCTTGCTGGA
 GATGTACGCAGACTTTATGGCGCACCTGACCTGCTGCTGGCCATCACTGCCGGGGCAGCCAGAGGAG
 AGAGTCATTAGCTTCGTGGAGTATTACCTTACAGCCTTCCACGAGGGCCGAAAGGCACCCTGGCCAAGA
 AGCCCTACAACCCATCATCGGCGAGACCTTCACTGCTCCTGGGAGGTTCTTAAGGACAGAGTCAAGTC
 GAAGTGGACTTCCCCCACCCTCCATTAGTGTCTCAGCAGCATCCGATGGCCGATGACCTTCTAAAAGC
 TATAAGCTCAGGTTTGTGGTGTGAGCAGGTATCCCATATCCGCCATCTCCTGCTTCTACTGTGAGTGCA
 AGGAGAAGAGACTGTGTGTCAACACTCAGTATGGACAAAAGCAAGTTTATGGGCATGTCGCTGGGGT
 CTCTATGATAGGGGAAGGTGTGCTTCGACTTCTGGACCAGGGGAAGAGTACGTCTTACGCTGCCCAGT
 GCCTACGCCCGCTCCATCCTCACCGTGGGTGGAGCTTGGAGGGAAGGTCAACATCAGCTGTGCCA
 AGACTGGTTACTCTGCCACCGTACGTTCCACACGAAGCCCTTCTACGGCGGAAAGTCCACAGGTCAC
 AGCTGAAGTGAACACAACCCAAACACCATCGTCTGTAAAGCACATGGGGAGTGAATGGCACCTTG
 GAGTTCACCTACAGCAACGGGGAGACAAAGTATCGACACAACCACCCTGCCTGTGTATCTAAGAAGC
 TTAGACCCTGGAGAAGCAGGGGCCATGGAGTCCAGGAACCTCTGGCAGGAAGTCAACCACTACCTGAG
 GCTTGGGGACATTGACGCAGCCACAGAGCAGAAACGACGCTGGAGGAGAGGCAGAGGTTGGAGGAGAGG
 AAACGGGAGACCCTTCGACACCGTGGCGACCCAAGTATTCATCCCGGAGGGCGATGGCTGGGTGTACT
 TCAACCCCTCTGAAGACACAC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209222 representing BC027256
 Red=Cloning site Green=Tags(s)

MEMSSKTPGSRSLTLLPHGTPSSASPCSRHLSTGAPGVSVTRHKSPAAARRAKSQYSGQLHEVRE
 MMNQVEGQKKNLVHAIESLPGSGPLTALDQDLKATSAATLSCLGECLSLQSVRQAAPP SHKPGAS
 ETILGWHGPTSHSTDQLKNGTLGSLPSASANITWAILPNSAEHNSQPEPEPDSGPELVSEEEQSDNE
 DKGEVEPGAMEDQRSVILHLISQLKLGMDLTKVVLPTFIFLEKRSLEMYADFMHPDLLAITAGATPEE
 RVISFVEYYLTAHEGRKGTAKKPYNP IIGETFHCSWEVPKDRVKS KWTSPHPPISAHEHPMADDP SKS
 YKLRFAEQVSHHPPISCFYCECKEKRLCVNTHVWTKSKFMGMSVGVSMIGEVLRLLDHGEEYVFTLPS
 AYARSILTVPWVELGGKVNISCAKTGYSATVTFHTKPFYGGKVHRVTAEVKHNPTNTIVCKAHGEWNGTL
 EFTYSNGETKVIDTTTLVPYPKLRPLEKQGPMSRNLWQEVTHYLRLGDIDAATEQKRRLERQRVEER
 KRETLRTPWRPKYFIPEGDGWVYFNPLWKTH

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: BC027256

ORF Size: 1775 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: [BC027256](#), [AAH27256](#)
RefSeq Size: 1886 bp

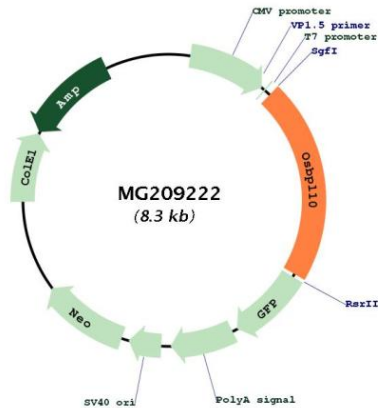
RefSeq ORF: 1775 bp

Locus ID: 74486

Cytogenetics: 9 F3

Gene Summary:

Probable lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane. Its ability to bind phosphatidylserine, suggests that it specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P. Plays a role in negative regulation of lipid biosynthesis. Negatively regulates APOB secretion from hepatocytes. Binds cholesterol and acidic phospholipids. Also binds 25-hydroxycholesterol. Binds phosphatidylserine.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG209222