

Product datasheet for **MR208672**

Osbp2 (BC058356) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (BC058356) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Osbp2
Synonyms:	ORP-4, OSBPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208672 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCAACGCCTGTAGGGACTTCTGGAAGTACTGAGACTCACAGCCGAAATGGCAGCGGGCTCTAA
 ATTATGAGCAGGAGCAGCGGTGCCACCTGGAAGAGACAATTGAGCAGTTGGCCAAGCAGCACAAACAGTCT
 TGAACGGGCTTCTGCAACACCCCTGGCGGGCCAGCCAGCTCCAGCAAGAGCTTCAGCGAGGGAAGCTTC
 TTGACTTCCAAGGAGAGAACAGTGAGGAAGATGAAGATACTGAGTACTTTGACGCCATGGAAGACTCTA
 CATCTTTCATCACCGTAGTCACTGAGGCCAAGGAAGACAGAAAGCCTGAGAGTGGACCTGGGACCACCAC
 TGTGGACTGGACCTCAGCAGATAATGTATTAGATGGTGCCTCATTATGCCCAAGAATTCATGCAAAGTT
 AAGAGGCGAGTCCGCATCCCTGACAAACCAACTATAGCCTAACCTCTGGAGCATCATGAAGAATTGTA
 TTGGCCGAGAGCTTCCCGGATCCCATGCCGGTGAACCTCAATGAGCCCCTGTCCATGTCCAGCGACT
 TACAGAGGACCTGGAGTACCACCACCTGTGGACAAGGCGGTGAACCTGCACCAGCTCGGTGGAGCAGATG
 TGCTGTAGCCGCTTTTCTGTGTCTCTACTCCACCAGGTGCACCCATCGCCAAGCCCTCAACC
 CTATGCTCGGGGAGACCTTCGAGCTGGACCGTATGGAGGACATGGGCCTGCGTTCCTCTGTGAGCAGGT
 GAGCCACCACCCCGTCTGCTGCCACCACGTGTTCTTAAGCATGGCTGGAGCCTCTGGCAAGAAATC
 ACCATCGCCAGCAAGTCCGAGGGAAAATACATCTCTATCATGCCACTCGGTGCCATCCACCTAGAATTCC
 AGGCCAGTGGCAATCACTACGTGTGGAGGAAGAGCACCTCCACCGTGCACAACATCATCGTGGGCAAGCT
 CTGGATTGACCAGTCAGGGGACATTGAGATTGTGAACCAAGACCAAGGACCGGTGCCAGCTGAAGTTC
 GTACCTACAGCTACTTCTCAAAGAGGCAGCCGAAAGGTGACTGGAGTGGTGAAGTGTGACAGCCAGGGCA
 AGGCCACTACGTGCTGTCAGTTCTGGGATGACCAGATGGAATGTTCTAAGATTGTGCACAGCAGCCC
 CAGCTCTGATGGGAGACAGAAAACCGTGTACCAGACACTGCCCGCCAAACTGCTCTGGAGGAAAATACCCA
 CTGCCGGAGAATGCGGAGAACATGTACTATTTCTCCGAGCTAGCCCTGACCCCTAACGAGCAGGAGGACG
 GCGTGGCGCCACCAGCAGTCCGCTGCGGCCAGACCAGCGGCTTATGGAGAGGGGACGCTGGGACGAGGC
 CAACACCAGAGAAGCAACGGCTGGAGGAGAAGCAGCGCCTGTCCAGGCGACGGCGGCTGGAGTCATGCACG
 GCAGGCTGCGGTGGGAGGAAGAGAAGGAGTCAAGTGGCTATGTGCCGCTCTGGTTCGAGAAGAGGCTGG
 ACCCGTACTGGGAGATGGCCTGCATGTACAAGGGCGGCTACTGGGAGCCAAGGAGAAGAAGGACTG
 GCACATGTGCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208672 protein sequence
 Red=Cloning site Green=Tags(s)

MINACRDFLELAETHSRKWQRALNVEQEQRVHLEETIEQLAKQHNSLERAFcntpggpPASSKSFSEGSF
 LTKGENSEEDTEYFDAMEDSTSFITVVTEAKEDRKPESGPTTTVDWTSADNVLDGASFMPKNSCKV
 KRRVRIPDKPNYSLNLWSIMKNCIGRELSRIPMPVNFNEPLSMLQRLTEDLEYHLLDKAVNCTSSVEQM
 CLVAAFSVSSYSTTVHRIAKPFNPMLGETFELDRMEDMGLRSLCEQVSHHPPSAHHVFSKHGWSLWQEI
 TIASKFRGKYISIMPLGAIHLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGDIEIVNHKTKDRCQLKF
 VPYSYFSKEAARKVTGVVSDSQKAHYVLSGSWDDQMECSKIVHSSPSSDGRQKTVYQTLPAKLLWRKYP
 LPENAENMYFSELALTLNEQEDGVAPDTSRLRPDQRLMERGRWDEANTEQRLEEKQRLSRRRRLSECT
 AGCGGEEKEESDGYVPLWFEKRLDPLTGEMACMYKGGYWEAKEKKDWHMCPNIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC058356

ORF Size: 1632 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: [BC058356](#), [AAH58356](#)

RefSeq Size: 3281 bp

RefSeq ORF: 1634 bp

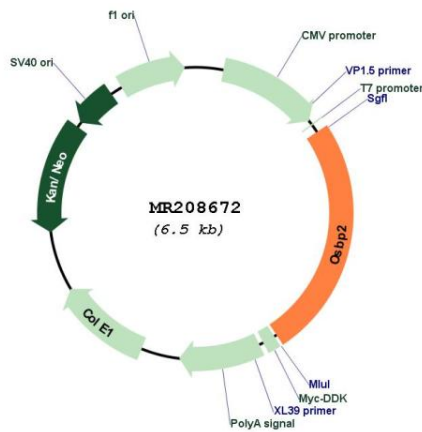
Locus ID: 74309

Cytogenetics: 11 A1

MW: 62.4 kDa

Gene Summary: The protein encoded by this gene belongs to the oxysterol-binding protein-related family of proteins, which are defined by a C-terminal sterol domain with a highly conserved EQVSHHPP motif. Oxysterols are oxygenated derivatives of cholesterol that are involved in mechanisms that include apoptosis, cholesterol homeostasis, lipid trafficking and cell differentiation. This protein is selectively expressed at high levels in the brain and testis. Within the testis, the mRNA is localized to postmeiotic germ cells, including spermatids and spermatozoa, but is not detectable in somatic cells. Mice homozygous mutant for a targeted deletion in this gene do not exhibit overt developmental phenotypes but are male sterile. Females display normal fertility. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MR208672