

Product datasheet for **MG208672**

Osbp2 (BC058356) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (BC058356) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Osbp2
Synonyms:	ORP-4, OSBPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208672 representing BC058356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCAACGCCTGTAGGGACTTCTGGAAGTACTGAGACTCACAGCCGAAATGGCAGCGGGCTCTAA
 ATTATGAGCAGGAGCAGGTGTCCACCTGGAAGAGACAATTGAGCAGTTGGCCAAGCAGCACAAACAGTCT
 TGAACGGGCTTCTGCAACACCCCTGGCGGGCCAGCCAGCTCCAGCAAGAGCTTCAGCGAGGGAAGCTTC
 TTGACTTCCAAGGAGAGAACAGTGAGGAAGATGAAGATACTGAGTACTTTGACGCCATGGAAGACTCTA
 CATCTTTCATCACCGTAGTCACTGAGGCCAAGGAAGACAGAAAGCCTGAGAGTGGACCTGGGACCACCAC
 TGTGGACTGGACCTCAGCAGATAATGTATTAGATGGTGCCTCATTATGCCCAAGAATTCATGCAAAGTT
 AAGAGGCGAGTCCGCATCCCTGACAAACCAACTATAGCCTAACCTCTGGAGCATCATGAAGAATTGTA
 TTGGCCGAGAGCTTCCCGGATCCCATGCCGGTGAACCTCAATGAGCCCTGTCCATGCTCCAGCGACT
 TACAGAGGACCTGGAGTACCACCACCTGTGGACAAGGCGGTGAACCTGCACCAGCTCGGTGGAGCAGATG
 TGCTGTAGCCGCTTTCTGTGTCTCTACTCCACCACGGTGCACCCATCGCCAAGCCCTCAACC
 CTATGCTCGGGGAGACCTTCGAGCTGGACCGTATGGAGGACATGGGCTGCGTTCCTCTGTGAGCAGGT
 GAGCCACCACCCCGTCTGCTGCCACCACGTGTTCTTAAGCATGGCTGGAGCCTCTGGCAAGAAATC
 ACCATCGCCAGCAAGTCCGAGGGAAAATACATCTCTATCATGCCACTCGGTGCCATCCACCTAGAATTCC
 AGGCCAGTGGCAATCACTACGTGTGGAGGAAGAGCACCTCCACCGTGCACAACATCATCGTGGGCAAGCT
 CTGGATTGACCAGTCAGGGGACATTGAGATTGTGAACCAAGACCAAGGACCGGTGCCAGCTGAAGTTC
 GTACCTACAGCTACTTCTCAAAGAGGCAGCCGAAAGGTGACTGGAGTGGTGAAGTGCACAGCAGGCCA
 AGGCCACTACGTGTCTCAGTTCTGGGATGACCAGATGGAATGTTCTAAGATTGTGCACAGCAGCCCA
 CAGCTCTGATGGGAGACAGAAAACCGTGTACCAGACTGCCCGCAAACCTGCTCTGGAGGAAAATACCCA
 CTGCCGAGAATGCGGAGAACATGTACTATTTCTCCGAGCTAGCCCTGACCCCTAACGAGCAGGAGGACG
 GCGTGGCGCCACCAGAGTGCCTGCGGCCAGACCAGCGGCTTATGGAGAGGGGACGCTGGGACGAGGC
 CAACACCAGAGAAGCAACGGCTGGAGGAGAAGCAGCGCCTGTCCAGGCGACGGCGGCTGGAGTATGCACG
 GCAGGCTGCGGTGGGAGGAAGAGAAGGAGTCAAGTGGCTATGTGCCGCTCTGGTTCGAGAAGAGGCTGG
 ACCCGTACTGGGAGATGGCCTGCATGTACAAGGGCGGCTACTGGGAGCCAAGGAGAAGAAGGACTG
 GCACATGTGCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208672 representing BC058356
 Red=Cloning site Green=Tags(s)

MINACRDFLELAETHSRKWQRALNYEQEQRVHLEETIEQLAKQHNSLERAFNCNTPGGPASSKSFSEGSF
 LTSKGENSEEDTEYFDAMEDSTSFITVVTEAKEDRKPESEPGTTTTVDWTSADNVLDGASFMPKNSCKV
 KRRVRIPDKPNYSLNLWSIMKNCIGRELSRIPMPVNFNEPLSMLQRLTEDLEYHLLDKAVNCTSSVEQM
 CLVAAFSVSSYSTTVHRIAKPFNPMLGETFELDRMEDMGLRSLCEQVSHHPPSAHHVFSKHGWSLWQEI
 TIASKFRGKYISIMPLGAIHLEFQASGNHYVWRKSTSTVHNIIVGKLVWIDQSGDIEIVNHKTKDRCQLKF
 VPYSYFSKEAARKVTGVVSDSQKAHYVLSGSWDDQMECSKIVHSSPSSDGRQKTYYQTLPAKLLWRKYP
 LPENAENMYFSELALTLNEQEDGVAPDTSRLRPDQRLMERGRWDEANTEKQRLLEEKQRLSRRRRLSCT
 AGCGEEEEKESDGYVPLWFEKRLDPLTGEMACMYKGGYWEAKEKKDWHMCPNIF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	BC058356
ORF Size:	1634 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:	<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:	BC058356 , AAH58356
RefSeq Size:	3281 bp
RefSeq ORF:	1634 bp
Locus ID:	74309
Cytogenetics:	11 A1
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]