

Product datasheet for **MG207271**

Osbp2 (BC031794) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (BC031794) 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:

>MG207271 representing BC031794
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGACTCTACATCTTTCATCACCGTAGTCACTGAGGCCAAGGAAGACAGAAAGCCTGAGAGTGGAC
 CTGGGACCACCACTGTGGACTGGACCTCAGCAGATAATGTATTAGATGGTGCCTCATTATGCCCAAGAA
 TTCATGCAAAGTTAAGAGGCGAGTCCGCATCCCTGACAAACCAACTATAGCCTTAACCTCTGGAGCATC
 ATGAAGAATTGTATTGGCCGAGAGCTTTCCCGGATCCCATGCCGGTGAACCTCAATGAGCCCTGTCCA
 TGCTCCAGCGACTTACAGAGGACCTGGAGTACCACCACCTGCTGGACAAGGCGGTGAACCTGCACCAGCTC
 GGTGGAGCAGATGTGCCTGGTAGCCGCTTTTCTGTGTCTCCTACTCCACCACGGTGCACCGCATCGCC
 AAGCCCTCAACCCTATGCTCGGGGAGACCTTCGAGCTGGACCGTATGGAGGACATGGGCCTGCGTTCCC
 TCTGTGAGCAGGTGAGCCACCACCCCGTCTGCTGCCACCACGTGTTCTTAAGCATGGCTGGAGCCT
 CTGGCAAGAAATCACCATCGCCAGCAAGTCCGAGGGAAATACATCTCTATCATGCCACTCGGTGCCATC
 CACCTAGAATTCCAGGCCAGTGGCAATCACTACGTGTGGAGGAAGAGCACCTCCACCGTGCACAACATCA
 TCGTGGGCAAGCTCTGGATTGACCAATCAGGGGACATTGAGATTGTGAACCACAAGACCAAGGACCGGTG
 CCAGCTGAAGTTCGTACCTACAGCTACTTCTCCAAGAGGCAGCCGAAAGGTGACTGGAGTGGTGGAGT
 GACAGCCAGGGCAAGGCCACTACGTGCTGTCAGGTTCGTGGGATGACCAGATGGAATGTTCTAAGATTG
 TGCACAGCAGCCCGACTCTGATGGGAGACAGAAAACCGTGTACCAGACTGCCCGCAAACCTGCTCTG
 GAGGAAATACCCACTGCCGGAGAATGCGGAGAACATGACTATTTCTCCGAGCTAGCCCTGACCCCTAAC
 GAGCAGGAGGACGGCGTGGCGCCACCGACAGTGCCTGCGGCCAGACCAGCGGCTTATGGAGAGGGGAC
 GCTGGGACGAGGCCAACCCGAGAAGCAACGGCTGGAGGAGAAGCAGCGCTGTCCAGGCGACGGCGGCT
 GGAGTCATGCACGGCAGGCTGCGGTGGGAGGAAGAGAAGGAGTCAAGTGGCTATGTGCCGCTCTGGTTC
 GAGAAGAGGCTGGACCCGCTGACTGGGGAGATGGCCTGCATGTACAAGGGCGGCTACTGGGAGGCCAAGG
 AGAAGAAGGACTGGCACATGTGCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207271 representing BC031794
 Red=Cloning site Green=Tags(s)

MEDSTSFITVTEAKEDRKPESGPGTTTTVDWTSADNVLDGASFMPKNSCKVKRRVRIPDKPNYSLNLWSI
 MKNCIGRELSRIPMPVNFNEPLSMLQRLTEDLEYHLLDKAVNCTSSVEQMCLVAAFSVSSYSTTVHRIA
 KPFNPMLGETFELDRMEDMGLRSLCEQVSHPPSAHHVFSKHGWSLWQEITTIASKFRGKYISIMPLGAI
 HLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGDIEIVNHKTKDRCQLKFPYYSFKEAARKVTGVVS
 DSQGAHYVLSGSWDDQMECSKIVHSSPSSDGRQKTVYQTLPAKLLWRKYPLPENAENMYFSELALTLN
 EQEDGVAPTDSRLRPDQRLMERGRWDEANTEKQRLLEEKQRLSRRRRESCTAGCGEEKESEDGYVPLWF
 EKRLDPLTGEMACMYKGGYWEAKEKDWHMCPNIF

TRTRPLE - GFP Tag - V

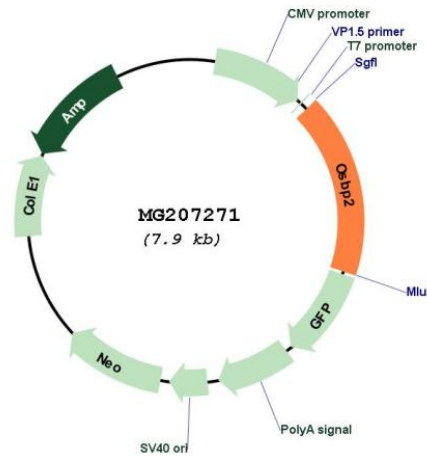
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC031794

ORF Size: 1365 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:	<u>BC031794.1</u>
RefSeq Size:	3123 bp
RefSeq ORF:	1367 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]