

Product datasheet for **MR229989**

Osbp2 (NM_001302630) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (NM_001302630) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Osbp2
Synonyms:	1700095P05Rik; C630001G20Rik; Gm244; ORP-4; OSBPL1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR229989 representing NM_001302630
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGACTCTACATCTTTCATCACCGTAGTCACTGAGGCCAAGGAAGACAGAAAGCCTGAGAGTGGAC
 CTGGGACCACCACTGTGGACTGGACCTCAGCAGATAATGTATTAGATGGTGCCTCATTATGCCCAAGAA
 TTCATGCAAAGTTAAGAGGCGAGTCCGCATCCCTGACAAACCAACTATAGCCTTAACCTCTGGAGCATC
 ATGAAGAATTGTATTGGCCGAGAGCTTTCCCGGATCCCATGCCGGTGAACCTCAATGAGCCCTGTCCA
 TGCTCCAGCGACTTACAGAGGACCTGGAGTACCACCACCTGCTGGACAAGGCGGTGAACCTGCACCAGCTC
 GGTGGAGCAGATGTGCCTGGTAGCCGCTTTTCTGTGTCTCTACTCCACCACGGTGCACCGCATCGCC
 AAGCCCTCAACCCTATGCTCGGGGAGACCTTCGAGCTGGACCGTATGGAGGACATGGGCCTGCGTTCCC
 TCTGTGAGCAGGTGAGCCACCACCCCGTCTGCTGCCACCACGTGTTCTTAAGCATGGCTGGAGCCT
 CTGGCAAGAAATCACCATCGCCAGCAAGTTCGAGGGAAATACATCTCTATCATGCCACTCGGTGCCATC
 CACCTAGAATTCAGGCCAGTGGCAATCACTACGTGTGGAGGAAGAGCACCTCCACCGTGCAACAATCA
 TCGTGGGCAAGCTCTGGATTGACCAATCAGGGGACATTGAGATTGTGAACCACAAGACCAAGGACCGGTG
 CCAGCTGAAGTTCGTACCTACAGCTACTTCTCCAAGAGGCAGCCGAAAGGTGACTGGAGTGGTGGAGT
 GACAGCCAGGGCAAGGCCACTACGTGCTGTCAGGTTCTGGGATGACCAGATGGAATGTTCTAAGATTG
 TGCACAGCAGCCCAGCTCTGATGGGAGACAGAAAACCGTGTACCAGACTGCCCGCCAAACTGCTCTG
 GAGGAAATACCCACTGCCGGAGAATGCGGAGAATGACTACTTCTCCGAGCTAGCCCTGACCCCTCAAC
 GAGCAGGAGGACGGCGTGGCGCCACCGACAGTGCCTGCGGCCAGACCAGCGGCTTATGGAGAGGGGAC
 GCTGGGACGAGGCAACACCGAGAAGCAACGGCTGGAGGAGAAGCAGCGCTGTCCAGGACGGCGGCT
 GGAGTCATGCACGCGAGGCTGCGGTGGGAGGAAGAGAAGGAGTCAGATGGCTATGTGCCGCTCTGGTTC
 GAGAAGAGGCTGGACCCGCTGACTGGGGAGATGGCCTGCATGTACAAGGGCGGCTACTGGGAGGCCAAGG
 AGAAGAAGGACTGGCACATGTGCCCAACATCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229989 representing NM_001302630
 Red=Cloning site Green=Tags(s)

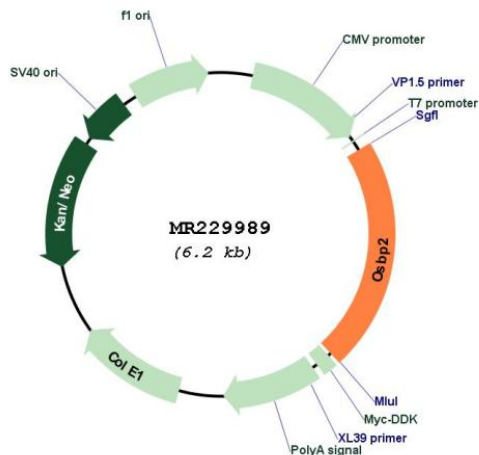
MEDSTSFITVVTEAKEDRKPESGPGTTTTVDWTSADNVLDGASFMPKNSCKVRRVRIPDKPNYSNLWSI
 MKNICIGRELSRIPMPVNFNEPLSMLQRLTEDLEYHLLDKAVNCTSSVEQMCLVAAFSVSSYSTTVHRIA
 KPFNPMLGETFELDRMEDMGLRSLCEQVSHPPSAAHVFSKHGWSLWQEITIASKFRGKYISIMPLGAI
 HLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGDIEIVNHKTKDRCQLKFPYPSYFSKEAARKVTGVVS
 DSQGKAHYVLSGSWDDQMECKIVHSSPSSDGRQKTVYQTLPAKLLWRKYPLPENAENMYFSELALTLN
 EQEDGVAPTDSRLRPDQRLMERGRWDEANTEKQRLLEEKQRLSRRRRESCTAGCGGEEKEKSDGYVPLWF
 EKRLDPLTGEMACMYKGGYWEAKEKKDWHMCPNIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001302630

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:

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: [NM_001302630.2](#)

RefSeq Size: 3106 bp

RefSeq ORF: 1368 bp

Locus ID: 74309

Cytogenetics: 11 A1

MW: 52.6 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]