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Product datasheet for MC227778

Osbp2 (NM_001302630) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (NM_001302630) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC227778 representing NM_001302630
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGACTCTACATCTTTCATCACCGTAGTCACTGAGGCCAAGGAAGACAGAAAGCCTGAGAGTGGAC
CTGGGACCACCACTGTGGACTGGACCTCAGCAGATAATGTATTAGATGGTGCCTCATTCATGCCCAAGAA
TTCATGCAAAGTTAAGAGGCGAGTCCGCATCCCTGACAAACCCAACTATAGCCTTAACCTCTGGAGCATC
ATGAAGAATTGTATTGGCCGAGAGCTTTCCCGGATCCCCATGCCGGTGAACTTCAATGAGCCCCTGTCCA
TGCTCCAGCGACTTACAGAGGACCTGGAGTACCACCACCTGCTGGACAAGGCGGTGAACTGCACCAGCTC
GGTGGAGCAGATGTGCCTGGTAGCCGCCTTTTCTGTGTCCTCCTACTCCACCACGGTGCACCGCATCGCC
AAGCCCTTCAACCCTATGCTCGGGGAGACCTTCGAGCTGGACCGTATGGAGGACATGGGCCTGCGTTCCC
TCTGTGAGCAGGTGAGCCACCACCCCCCGTCTGCTGCCCACCACGTGTTCTCTAAGCATGGCTGGAGCCT
CTGGCAAGAAATCACCATCGCCAGCAAGTTCCGAGGGAAATACATCTCTATCATGCCACTCGGTGCCATC
CACCTAGAATTCCAGGCCAGTGGCAATCACTACGTGTGGAGGAAGAGCACCTCCACCGTGCACAACATCA
TCGTGGGCAAGCTCTGGATTGACCAGTCAGGGGACATTGAGATTGTGAACCACAAGACCAAGGACCGGTG
CCAGCTGAAGTTCGTACCCTACAGCTACTTCTCCAAAGAGGCAGCCCGAAAGGTGACTGGAGTGGTGAGT
GACAGCCAGGGCAAGGCCCACTACGTGCTGTCAGGTTCGTGGGATGACCAGATGGAATGTTCTAAGATTG
TGCACAGCAGCCCCAGCTCTGATGGGAGACAGAAAACCGTGTACCAGACACTGCCCGCCAAACTGCTCTG
GAGGAAATACCCACTGCCGGAGAATGCGGAGAACATGTACTATTTCTCCGAGCTAGCCCTGACCCTCAAC
GAGCAGGAGGACGGCGTGGCGCCCACCGACAGTCGCCTGCGGCCAGACCAGCGGCTTATGGAGAGGGGAC
GCTGGGACGAGGCCAACACCGAGAAGCAACGGCTGGAGGAGAAGCAGCGCCTGTCCAGGCGACGGCGGCT
GGAGTCATGCACGGCAGGCTGCGGTGGGGAGGAAGAGAAGGAGTCAGATGGCTATGTGCCGCTCTGGTTC
GAGAAGAGGCTGGACCCGCTGACTGGGGAGATGGCCTGCATGTACAAGGGCGGCTACTGGGAGGCCAAGG
AGAAGAAGGACTGGCACATGTGCCCCAACATCTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001302630

Insert Size: 1368 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001302630.1, NP_001289559.1
RefSeq Size:	3106 bp
RefSeq ORF:	1368 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] Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (3) has a shorter N-terminus compared to isoform 1.