

Product datasheet for **MC222536**

Osbp2 (NM_152818) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (NM_152818) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Osbp2
Synonyms:	1700095P05Rik; C630001G20Rik; Gm244; ORP-4; OSBPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222536 representing NM_152818
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAAGCGGCCGCTCTGAGCCGAGGCGGCCGCTGCGCTGGCCGCTCCCGGGCTCTCGTCGCTGT
 TCACGGTTGTGCCCTGCTTGTCTGCCACACGGCGGCCGGGCATGAACATCCGCGTTCGGCTCAGG
 ACCAGCGTCAAAGCCTCAGCTCCAGCCTGTGCAGGCACCAGAGCGGGAGTTGCTGTGCAAACAGGTGTGC
 CAGCCAATTTCTGAGCCGGCGTCGAGATCCGAACCTGGGTCCCAGACGACGTCTGTGCCAAGCCTTCAG
 GGGTTGGGCAGGAATCGGAACACAGGGCTTGTGGCCGGGGTCAGAGAACGGCACAAGGTCTGTGCCAT
 CATCAAAGCTTCGCCAGAGCTGGCAATGCCGTCCCGCTGCAGTCAACAGTAGGGAGTTTCCCCGTACCC
 AAACCCGAGTCCAAGCTGGTCCAAAGACCCAGTCTTTCTGCGACAAGGACAGGCGAAGATTTCTGTCCG
 GGACTCCGGTGTGAGGATTGGTGTCAAATGGTCTCACACCTCTGGACAGCTACAAGGGTTGGCTCCT
 CAAGTGGACTAACTACCTGAAGGGCTACCAGCGCGTTGGTTCGTGCTCGCAATGGCCTGCTGTCTAC
 TACAGAAACCAGGGTGAATGGCCACACCTGCCGTGCGACCATCAACTTGGCCTCCACACACTTTGAAA
 CAGAGGACTCTTGTGGAATCCTTCTATGCAACGGGGCAAGGACCTACCACCTCAAGGCCAGCTCAGAGGT
 GGACCGGCAGCATTGGATCACCGCTCTGGAGCTGGCCAAGGCCAAGGCTATCCGTGTGATGAAAACCTCAG
 TCAGATGATTCTGGGGACGACGACGAAGAGCCTGCTGCCCCAGCTGACAACAGTGAACCTCCACCACACTC
 TTAAGACCCTCTCACTGAAGTTAAATGACCTCAGCACGTGCAATGACCTCATTGCCAAGCATGGCGCTGC
 CCTCCAGCGCTCCCTGAATGAGCTGGACAGCCTCAAGATCCCATCAGAGTGGGGGAGAACTGAAGTT
 GTGAACGAGCGGGCCACCCTCTCCGCATCACATCAAATGCTATGATCAACGCTGTAGGGACTTCCCTGG
 AACTGACTGAGACTCACAGCCGAAATGGCAGCGGGCTCAAATATGAGCAGGACGAGCTGTCCACCT
 GGAAGAGACAATTGAGCAGTTGGCCAAGCAGCACAAACAGTCTTGAACGGGCTTCTGCAACACCCCTGGC
 GGGCCAGCCAGCTCCAGCAAGAGCTTACGAGGGGAAAGCTTCTTGACTTCCAAAGGAGAGAACAGTGAGG
 AAGATGAAGATACTGAGTACTTTGACGCCATGGAAGACTTACATCTTTTATCACCGTAGTCACTGAGGC
 CAAGGAAGACAGAAAGCCTGAGAGTGGACCTGGGACCACCCTGTGGACTGGACCTCAGCAGATAATGTA
 TTAGATGGTGCCTCATTGATGCCAAGAATTGATGCAAAGTTAAGAGGCGAGTCCGCATCCCTGACAAAAC
 CCAACTATAGCCTAACCTCTGGAGCATCATGAAGAATTGATTGGCCGAGAGCTTCCCGGATCCCCAT
 GCCGGTGAACCTCAATGAGCCCCTGTCCATGCTCCAGCGACTTACAGAGGACCTGGAGTACCACCACCTG
 CTGGACAAGGCGGTGAACCTGCACCAGCTCGGTGGAGCAGATGTGCTGGTAGCCGCTTTTCTGTGTCT
 CCTACTCCACCAGGTGCACCGCATCGCCAAGCCCTTCAACCCTATGCTCGGGGAGACCTTCGAGCTGGA
 CCGTATGGAGGACATGGGCTGCGTTCCCTCTGTGAGCAGGTGAGCCACCACCCCGCTGCTGCCCCAC
 CACGTGTTCTCTAAGCATGGCTGGAGCCTCTGGCAAGAAATCACCATCGCCAGCAAGTTCGAGGGAAAT
 ACATCTCTATCATGCCACTCGGTGCCATCCACCTAGAATCCAGGCCAGTGGCAATCACTACGTGTGGAG
 GAAGAGCACCTCCACCGTGCACAACATCATCGTGGCAAGCTCTGGATTGACCAGTCAAGGGGACATTGAG
 ATGTGAACCACAAGACCAAGGACCGGTGCCAGCTGAAGTTTGTACCTACAGCTACTTCTCAAAGAGG
 CAGCCCAGAAAGGTGACTGGAGTGGTGGTGGTGCAGCCAGGGCAAGGCCACTACGTGCTGTGAGTTCTGT
 GGATGACCAGATGGAATGTTCTAAGATTGTGCACAGCAGCCAGCTCTGATGGGAGACAGAAAACCGTG
 TACCAGACACTGCCCGCAAACCTGCTCTGGAGGAAATACCCACTGCCGGAGAATGCGGAGAACATGTACT
 ATTTCTCCGAGCTAGCCCTGACCCTCAACGAGCAGGAGGACGGCGTGGCGCCACCAGCAGTCCGCTGCG
 GCCAGACCAGCGCTTATGGAGAGGGGACGCTGGGACGAGGCCAACACCGAGAAGCAACGGCTGGAGGAG
 AAGCAGCGCTGTCCAGGCGACGGCGGTGGAGTATGCACGGCAGGCTGCGGTGGGAGGAAAGAGAAGG
 AGTCAGATGGCTATGTGCCGCTCTGGTTCGAGAAGAGGCTGGACCCGCTGACTGGGGAGATGGCCTGCAT
 GTACAAGGGCGGCTACTGGGAGGCCAAGGAGAAGAAGGACTGGCAGATGTGCCCCAACATCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_152818

Insert Size:	2727 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).
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>NM_152818.2</u> , <u>NP_690031.2</u>
RefSeq Size:	4138 bp
RefSeq ORF:	2727 bp
Locus ID:	74309
UniProt ID:	<u>Q5QNO6</u>
Cytogenetics:	11 A1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>