

Product datasheet for **MR230255**

Osbp2 (NM_001302631) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (NM_001302631) 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:

>MR230255 representing NM_001302631
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCCTGGAGAAGGCCAGAGCCAGCAAGAAGACCCTGGGAGTTGGGGTGGAAAGCCAGGAAGCTTCT
 TGACTTCCAAAGGAGAGAACAGTGAGGAAGATGAAGATACTGAGTACTTTGACGCCATGGAAGACTCTAC
 ATCTTTTATCACCGTAGTCACTGAGGCCAAGGAAGACAGAAAGCCTGAGAGTGGACCTGGGACCACCACT
 GTGGACTGGACCTCAGCAGATAATGTATTAGATGGTGCCTCATTTCATGCCCAAGAATTCATGCAAAGTTA
 AGAGGGCAGTCCGCATCCCTGACAAACCAACTATAGCCTTAACCTCTGGAGCATCATGAAGAATTGTAT
 TGGCCGAGAGCTTCCCGGATCCCATGCCGGTGAAGTCAATGAGCCCTGTCCATGCTCCAGCGACTT
 ACAGAGGACCTGGAGTACCACCCTGCTGGACAAGGCGGTGAAGTGCACCAGCTCGGTGGAGCAGATGT
 GCCTGGTAGCCGCTTTTCTGTGTCCTCTACTCCACCACGGTGCACCGCATGCCAAGCCCTTCAACCC
 TATGCTCGGGGAGACCTTCGAGCTGGACCGTATGGAGGACATGGGCTGCGTTCCCTCTGTGAGCAGGTG
 AGCCACCACCCCGTCTGCTGCCACCACGTGTTCTTAAGCATGGCTGGAGCCTCTGGCAAGAATCA
 CCATCGCCAGCAAGTCCGAGGGAAATACATCTCTATCATGCCACTCGGTGCCATCCACCTAGAATTCCA
 GGCCAGTGGCAATCACTACGTGTGGAGGAAGAGCACCTCCACCGTGCACAACATCATCGTGGGCAAGCTC
 TGGATTGACCAGTCAAGGGACATTGAGATTGTGAACCACAAGACCAAGGACCGGTGCCAGCTGAAGTTTCG
 TACCCTACAGCTACTTCTCAAAGAGGCCAGCCGAAAGGTGACTGGAGTGGTGAAGTGCACAGCAGGGCAA
 GGCCACTACGTGCTGTCAAGTTCGTGGGATGACCAGATGGAATGTTCTAAGATTGTGCACAGCAGCCCA
 AGCTCTGATGGGAGACAGAAAACCGTGTACCAGACACTGCCGCCAAACTGCTCTGGAGGAAATACCCAC
 TGCCGGAGAATGCGGAGAACATGTAATTTCTCCGAGTACCCCTGACCCTCAACGAGCAGGAGGACGG
 CGTGGCGCCACCGACAGTCGCCTGCGGCCAGACCAGCGGCTTATGGAGAGGGGACGCTGGGACGAGGCC
 AACACCGAGAAGCAACGGCTGGAGGAGAAGCAGCGCTGTCCAGGCGACGCGGCTGGAGTCATGCACGG
 CAGGCTGCGGTGGGAGGAAGCAGAGAAGGAGTCAGATGGCTATGTGCCGCTCTGGTTCGAGAAGAGGCT
 GGACCCGCTGACTGGGAGATGGCTGCATGTACAAGGGCGGCTACTGGGAGGCCAAGGAGAAGAAGGAC
 TGGCAGATGTGCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230255 representing NM_001302631
 Red=Cloning site Green=Tags(s)

MRPGEQQRPRRPWELGWKPGSFLTSKGENSEEDTEYFDAMEDSTSFITVVTEAKEDRKPESGPGTTT
 VDWTSADNVLDGASFMPKNSCKVKRRVRIPDKPNYSLNLWSIMKNCIGRELSRIPMPVNFNEPLSMLQRL
 TEDLEYHHLLDKAVNCTSSVEQMCLVAAFVSSYSTTVHRIAKPFNPMLGETFELDRMEDMGLRSLCEQV
 SHHPPSAAHVFSKHGWSLWQEITIASKFRGKYISIMPLGAIHLEFQASGNHYVWRKSTSTVHNIIVGKL
 WIDQSGDIEIVNHKTKDRCQLKFPVYSYFSKEAARKVTGVVSDSQGKAHYVLSGSWDDQMECSKIVHSSP
 SSDGRQKTYYQTLPAKLLWRKYPLPENAENMYFSELALTLNEQEDGVAPTDSRLRPDQRLMERGRWDEA
 NTEKQRLQRLSRRRRLSCTAGCGGEEAEKESDGYVPLWFEKRLDPLTGEMACMYKGGYWEAKEKKD
 WHMCPNIF

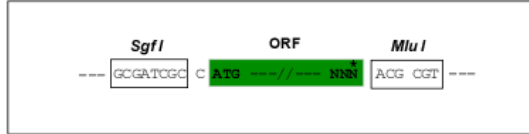
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

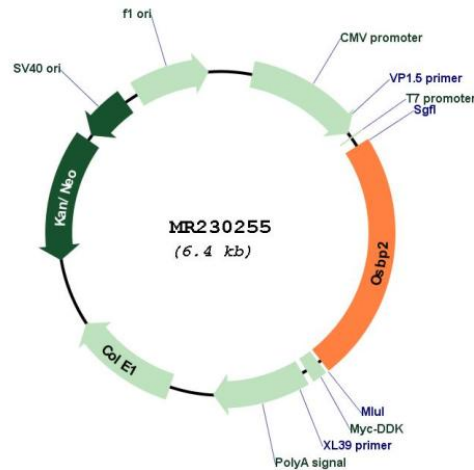
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001302631

ORF Size: 1494 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_001302631.2](#)

RefSeq Size: 2916 bp

RefSeq ORF: 1497 bp

Locus ID: 74309

Cytogenetics: 11 A1

MW: 57.6 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]