

Product datasheet for **MG216083**

Osbp2 (NM_152818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp2 (NM_152818) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Osbp2
Synonyms:	1700095P05Rik; C630001G20Rik; Gm244; 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:

>MG216083 representing NM_152818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAAGCGGCCGCTCTGAGCCGAGGCGGCCGCTGCGCTGGCCGCTCCCGGGCTCTCGTCGCTGT
 TCACGGTTGTGCCCTGCTTGTCTGCCACAGGCGGCCGGCATGAATCATCCGCGTTCGGCTCAGG
 ACCAGCGTCAAAGCCTCAGCTCCAGCCTGTGCAGGCACCAGAGCGGGAGTTGCTGTGAAAACAGGTGTGC
 CAGCCAATTTCTGAGCCGGCGTCGAGATCCGAACCTGGGTCCCAGACGACGTCTGTGCCAAGCCTTCAG
 GGGTTGGCAGGAATCGGAACACAGGGCTTGTGGCCGGGGTCAGAGAACGGCACAAGGTCTGTGCCAT
 CATCAAAGCTTCGCCAGAGCTGGCAATGCCGTCCCGCTGCAGTCAACAGTAGGGAGTTTCCCCGTACC
 AAACCCGAGTCCAAGCTGGTCCAAAGACCCAGTCTTTTCTGCGACAAGGACAGGCGAAGATTTCTGTCCG
 GGACTCCGGTGTAGGGATTGGTGTCAAATGGTCTCACACCTCTGGACAGCTACAAGGGTTGGCTCCT
 CAAGTGGACTAACTACCTGAAGGGCTACCAGCGCGTTGGTTCGTCTCGCAATGGCCTGTCTCTAC
 TACAGAAACCAGGGTGAATGGCCACACCTGCCGTGCGACCATCAACTGGCCTCCACACACTTTGAAA
 CAGAGGACTCTTGTGGAATCCTTCTATGCAACGGGGCAAGGACCTACCACCTCAAGGCCAGCTCAGAGGT
 GGACCGCAGCATTGGATCACCGCTCTGGAGCTGGCCAAGGCCAAGGCTATCCGTGTGATGAAAACCTCAG
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 CCTCCAGCGCTCCCTGAATGAGCTGGACAGCCTCAAGATCCCATCAGAGTGGGGGAGAACTGAAGTT
 GTAACGAGCGGGCCACCCTCTCCGCATCACATCAAATGCTATGATCAACGCTGTAGGGACTTCCCTGG
 AACTGTGAGACTCACAGCCGAAATGGCAGCGGGCTCAAATATGAGCAGGACGACGTGTCCACCT
 GGAAGAGACAATTGAGCAGTTGGCCAAGCAGCACAAACAGTCTTGAACGGGCTTCTGCAACACCCCTGGC
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 CAAGGAAGACAGAAAGCCTGAGAGTGGACCTGGGACCACCACTGTGGACTGGACCTCAGCAGATAATGTA
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 CCAACTATAGCCTAACCTCTGGAGCATCATGAAGAATTGATTGGCCGAGAGCTTTCCCGGATCCCCAT
 GCCGGTGAACCTCAATGAGCCCCTGTCCATGCTCCAGCGACTTACAGAGGACCTGGAGTACCACCACCTG
 CTGGACAAGGCGGTGAACCTGCACCAGCTCGGTGGAGCAGATGTGCCTGGTAGCCGCTTTTCTGTGTCT
 CCTACTCCACCAGGTGACCCGATCGCCAAGCCCTTCAACCCTATGCTCGGGGAGACCTTCGAGCTGGA
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 CACGTGTTCTCTAAGCATGGCTGGAGCCTCTGGCAAGAAATCACCATCGCCAGCAAGTTCAGAGGAAAT
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 GCCAGACCAGCGCTTATGGAGAGGGGACGCTGGGACGAGGCCAACACCGAGAAGCAACGGCTGGAGGAG
 AAGCAGCGCTGTCCAGGCGACGGCGGTGGAGTATGCACGGCAGGCTGCGGTGGGAGGAAGAGAAGG
 AGTCAGATGGCTATGTGCCGCTCTGTTTCGAGAAGAGGCTGGACCCGCTGACTGGGGAGATGGCCTGCAT
 GTACAAGGGCGGCTACTGGGAGGCCAAGGAGAAGAAGGACTGGCAGATGTGCCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG216083 representing NM_152818
 Red=Cloning site Green=Tags(s)

MGKAAALSRGGGCAGRSRGLSSLFTVVPCLSCHTAAPGMNSSAFGSGPASKPQLQPVQAPERELLKQVC
 QPISEPARSEPGSQTTSPRPSGVGQSESELQGLWPGSENGTRS VSI IKASPELAMP SPLQSTVGS LPVT
 KPESKLVPKTQSF LRQGQAKISVGT PVSIGVQMVSPPLDSYKGWLLKWTNYLKG YQRRWFLGNLLSY
 YRNQGEMAHTCRATINLASTHFETEDSCGILLCNGARTYHLKASSEVDROHWITALELAKAKAIRVMKTQ
 SDDSGDDDEEPAAPADNSELHHTLKTLSLKLNDLSTCNDLIAKHGAALQRSLNELDSLKIPSECGEKLKV
 VNERATLFRITSNAMINACRDFLELAETHSRKWQRALNYEQEQRVHLEETIEQLAKQHNSLERAFcntpg
 GPASSSKSFSEGSFLTskgenseeededteyfdamedstsfITVVTEAKEDRKPESGPGTTTVDWTSADNV
 LDGASFM PKNSCKV KRRVRIPDKPNYSLNLWSIMKNCIGRELSRIPMPVNFNEPLSMLQRLTEDLEYHHL
 LDKAVNCTSSVEQMCLVAAFSVSSYSTTVHRIAKPFNPMLGETFELDRMEDMGLRSLCEQVSHHPPSAAH
 HVFSKHGWSLWQEITIASKFRGKYISIMPLGAIHLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGDIE
 IVNHKTKDRCQLKFPVPSYFSKEAARKVTGVVSDSQGKAHYVLSGSWDDQMECSKIVHSSPSSDGRQKTV
 YQTLPAKLLWRKYPLPENAENMYFSELALTLNEQEDGVAPTDSRLRPDQRLMERGRWDEANTEKORLEE
 KQRLRRRRLESC TAGCGEEEEKSDGYVPLWFEKRLDPLTGEMACMYKGGYWEAKEKDWHMCPNIF

TRTRPLE - GFP Tag - V

Restriction Sites:

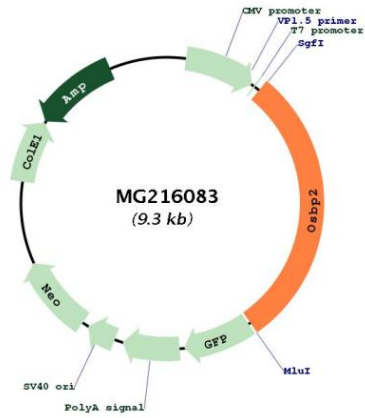
SgfI-MluI

Cloning Scheme:



ACCN:	NM_152818
ORF Size:	2724 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:	NM_152818.3
RefSeq Size:	4138 bp
RefSeq ORF:	2727 bp
Locus ID:	74309
UniProt ID:	Q5QNO6
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]

Product images:



Circular map for MG216083