

Product datasheet for **MG215637**

Osbp (NM_001033174) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp (NM_001033174) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Osbp
Synonyms:	1110018F06Rik; AW559088; mKIAA4220
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MG215637 representing NM_001033174
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCGACCGAGCTGAGAGGAGTGGTGGGGCCGGGCCGGCAGCCATCGCGGCTCCGGGCGGCGGC
 GCGCGGGTCCACCGCGGTGGGAGGCGGCGGCGACGCGGGACGCGGGGCCGGCCCGGGGTGGCGGC
 CGCGACGGCGGCGACGGCGGGCGGCCCGGGCCCGGGGCGGAGGAGTGGCGGCAGGCGGCCCGGCTCT
 GCACCGCCAGCCGCGGGCTCGGGCGTTTCGGGCGCCGGGGCTCGGGCTCGGCTAGAGAGGGCTGGCTCT
 TCAATGGACCAATTACATCAAAGGCTACCAGCGCGATGGTTCGTGCTGAGCAACGGGCTCCTAAGCTA
 CTACAGGTCCAAGGCAGAGATGAGACACACCTGCCGAGGTACCATCAACCTCGCCACAGCCAACATCACT
 GTGGAGGACTCTTGCACTTCATCATCTCCAATGGCGGTGCTCAGACCTACCACTGAAGGCCAGTCCG
 AAGTAGAGCGTCAGCGCTGGGTGACAGCCTTAGAACTGGCCAAGGCCAAGGCTGTGAAGATGCTGGCCGA
 ATCAGATGACTCAGGAGATGAAGAGTCTGTCTCAGAGACTGACAAGACCGAGCTCCAGAGACCCTGCGA
 ACACTCTCCAGCAAAGTGGAGGACCTCAGCACGTGCAACGACTTGATAGCTAAGCATGGCACCGCCCTGC
 AGCGTTCCCTCAGTGAGCTGGAGTCCCTGAAGTGCCTGCTGAGAGCAATGAGAAATCAAGCAGGTCAA
 TGAACGAGCCACGCTTTTATAGGATAACATCCAATGCCATGATCAATGCTTGACAGAGATTTCTCATGTTA
 GCCCAGACACACAGTAAGAAGTGGCAGAAGTCACTACAGTATGAAAGAGACCAGCGAATCCGACTGGAAG
 AAATCTTGAGCAGCTGGCAAAGCAGACAATCACCTGGAGAGAGCCTTCCGGGGAGCCACAGTGTGCC
 AGCAAACCTCCGGGCGAGCGTGGGTCTGGTAAAGATCAGTGTCTTGGCAAAGGGGACATGAGCGAT
 GAAGATGACGAGAATGAGTTTTTATGACACAGAGATTATCACCATGCCTGAAAATTTGGGCCACAAAC
 GTACTGGCAGCAATATCAGTGGGGCCAGCAGTGTGTCAGCCTTGATGAACAGTACAAGCATCAGCTGGA
 GGAGACCAAGAAGGAAAAGAGAACAGAAATACCATATAAGCCAAACTACAGCCTCAACTTGTGGAGCATC
 ATGAAGAAGTGCATTGGAAGGAGCTCTTAAGATCCCAATGCCGGTAACTTTAATGAGCCCTTGCCA
 TGCTTCAGCGCCTTACTGAAGATCTGGAGTACCATGAGCTGTTAGACAGAGCTGCAAAGTGTGAGAACTC
 TCTAGAACAGCTCTGCTATGTTGCAGCCTTCACTGTTTCTCCTATTCCACTACCGTCTTCCGAACCAGC
 AAGCCATTCAACCCTCTCCTTGGGGAGACATTTGAACTGGACCGACTGGAGGAGAATGGGTATCGGTCCA
 TCTGTGAGCAGGTGAGTCATCATCCCCCTGCTGCTGCGCACCATGCTGAATCCAAAATGGCTGGACATT
 GCGTCAGGAAATTAATCACCAGCAAGTTTCGAGGCAAATACCTCTCCATTATGCCCTTGGTACTATC
 CACTGCATTTTCACTCAACTGGGCACCATTACACTTGGAAGAAAGTTACCACAACAGTACACAACATTA
 TTGTGGGCAAGTTGTGGATAGATCAGTCTGGTGAGATTGACATTGTAAATCACAAGACAGGAGACAAGTG
 TAATCTTAAATTTGTTTCCTTATAGCTACTTCTCTCGGGATGTAGCAAGAAAGGTGACAGGTGAAGTGACA
 GACCCATCAGGAAAAGTTCACTTTGCCCTCCTGGGGACATGGGATGAGAAAATGGATTGTTTCAAAGTAC
 AGGCAGCTCCGGGGAGAATGGGGTGATGCTCGGCAGAGAGGCCATGAAGCAGAAGACAGCAGGTCAT
 GCTGTGGAAGAGGAACCCATTACCGAAGAATGCAGAGAATGTACTACTTCTCAGAGCTTGCCCTCACT
 CTCAATGCCTGGGAAGGTGGCACTGCTCCACGGACAGCCGGCTGCGGCCGACAGAGACTCATGGAAA
 ACGGGCGTTGGGATGAAGCAATGCTGAGAAGCAGCGCTGGAGGAGAAACAGCGGCTTTCCAGGAAGAA
 GAGAGAAGCAGAAGCTGCGAAAGCCACGGAAGATGGCACACCACATGACCCCTATAAGCACTGTGGTTT
 GAGCGGAAGAAGGACCCTGTACACAGGAGCTAACCCATATTTATAGTGCGGAGTACTGGGAATGTAAGG
 AAAAGCAGGACTGGGGTCTTGCCAGATATTTTC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215637 representing NM_001033174
 Red=Cloning site Green=Tags(s)

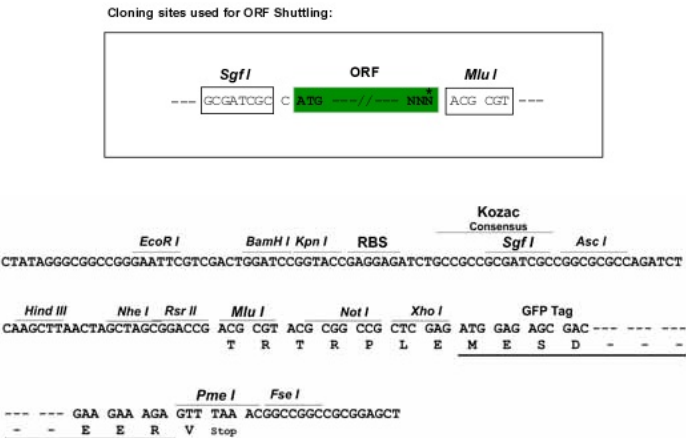
```

MAATELRGVVGPAAIAAPGGGGAGPPAVGGGGGRGDAGPGVAAATAATAGGPGPGAGGVAAGGPGS
APPAAGSGGSGAGGSGSAREGWLFKWTNYIKGYQRRWFLSNGLLSYYRSKAEMRHTCRGTINLATANIT
VEDSCNFIISNGGAQTYHLKASSEVERQRWVTALELAKAKAVKMLAESDDSGDEESVSQTDKTELQSTLR
TLSSKVEDLSTCNDLIAKHGTALQRSLESLKLPAESNEKIKQVNERATLFRITSNAMINACRDFML
AQTHSKKWQKSLQYERDQIRLEETLEQLAKQHNHLERAFRGATVLPANPPGSAGSGKDQCCSGKGDMSD
EDDENEFFDAPEIITMPENLGHKRTGSNISGASSDVSLDEQYKHQLEETKKEKRTRIPYKPNYSLNLWSI
MKNCIGKELSKIPMPVNFNEPLSMLQRLTEDLEYHELLDRAAKCENSLEQLCYVAAFTVSSYSTTVFRTS
KPFNPLLGETFELDRLEENGYRSICEQVSHPPAAAHHAESKNGWTLRQEIKITSKFRGKYL SIMPLGTI
HCIFHSTGHHTWKVTTTVHNIIVGKLWIDQSGEIDIVNHKTGDKCNLKFVPYSYFSRDVARKVTGEVT
DPSGKVFHALLGTWDEKMDCFKVQAASGENGGDARQRGHEAEDSRVMLWKRNP LPKNAENMYFSELALT
LNAWEGGTAPTDSRLRPDQRLMENGRWDEANAQRLQRLSRKKREAAKATEDGTPHPDYKALWF
ERKKDPVTRELTHIYSGEYWECKEKQDWGSCPDIF
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001033174
ORF Size:	2415 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033174.1](#), [NP_001028346.1](#)

RefSeq Size: 4590 bp

RefSeq ORF: 2418 bp

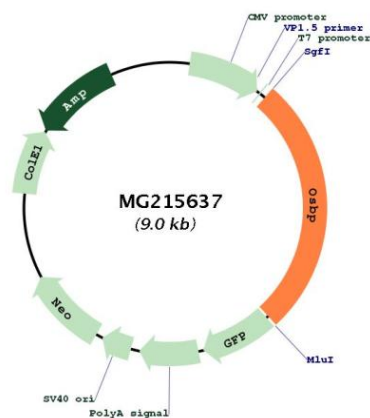
Locus ID: 76303

UniProt ID: [Q3B7Z2](#)

Cytogenetics: 19 8.58 cM

Gene Summary: Lipid transporter involved in lipid countertransport between the Golgi complex and membranes of the endoplasmic reticulum: specifically exchanges sterol with phosphatidylinositol 4-phosphate (PI4P), delivering sterol to the Golgi in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds cholesterol and a range of oxysterols including 25-hydroxycholesterol. Cholesterol binding promotes the formation of a complex with PP2A and a tyrosine phosphatase which dephosphorylates ERK1/2, whereas 25-hydroxycholesterol causes its disassembly. Regulates cholesterol efflux by decreasing ABCA1 stability.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215637