

Product datasheet for **MR215637**

Osbp (NM_001033174) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osbp (NM_001033174) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Osbp
Synonyms:	1110018F06Rik; AW559088; mKIAA4220
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR215637 representing NM_001033174
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

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 CGCGACGGCGGCGACGGCGGGCGGCCCGGGGCCGGAGGAGTGGCGGCAGGCGGCCCGGGCTCT
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 AAAAGCAGGACTGGGGTCTTGCCAGATATTTTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR215637 representing NM_001033174
 Red=Cloning site Green=Tags(s)

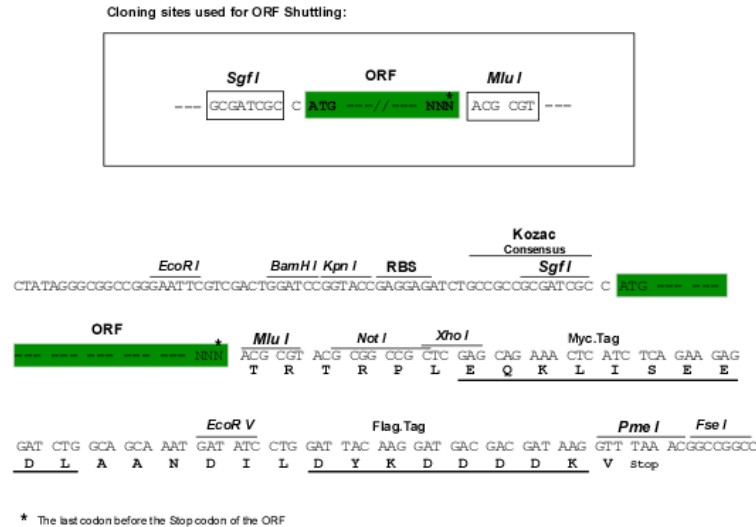
MAATELRGVVGPAAIAAPGGGGAGPPAVGGGGGRGDAGPGVAAATAATAGGPGPGAGGVAAGGPGS
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 DPSGKVFHALLGTWDEKMDCFKVQAASGENGGDARQRGHEAEDSRVMLWKRNP LPKNAENMYFSELALT
 LNAWEGGTAPTDSRLRPDQRLMENGRWDEANA EKQRL EEKQRLSRKKREAEAAKATEDGTPHPYKALWF
 ERKKDPVTRELTHIYSGEYWECKEKQDWGSCPDIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_g08.zip

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

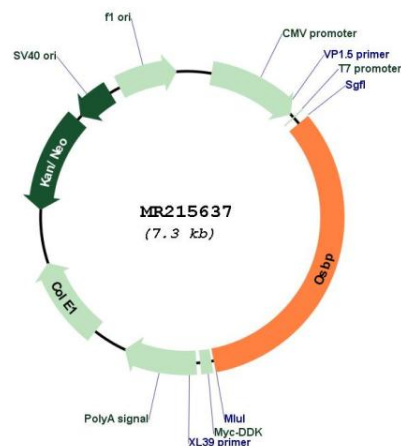
UniProt ID: [Q3B7Z2](#)

Cytogenetics: 19 8.58 cM

MW: 89.2 kDa

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 MR215637