

Product datasheet for **RC204250**

OSBP1 (OSBP) (NM_002556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBP1 (OSBP) (NM_002556) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OSBP1
Synonyms:	OSBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC204250 representing NM_002556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCGACGGAGCTGAGAGGAGTGGTGGGGCCAGGCCGGCAGCCATTGCAGCACTTGGCGGCGCG
 GCGCCGGTCCCCAGTGGTGGGAGGAGGCGGCCGCGGAGATGCGGGGCCAGGCTCCGGGGCCCGCTC
 AGGGACGGTGGTCGCGCGGCGCGGGAGGCCCGGGCCGGGGGAGTGGCGGCGCTGGCCCCG
 GCCCTGCGCCGCGACTGGGGCTCGGGCGGCTCGGGCGCTGGGGTTGCGGGCTCGGCTCGAGAGGGCT
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 GTAAAGAAAAACAGGACTGGAGCTCATGCCCGACATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204250 representing NM_002556
Red=Cloning site Green=Tags(s)

MAATELRGVVGPAAIAALGGGGAGPPVVGSGGRGDAGPGSGAASGTVAAAAGGPGGAGGVAAGP
APAPPTGGSGGSGAGGSGSAREGWLFKWTNYIKGYQRRWFLSNGLLSYRSKAEMRHTCRGTINLATAN
ITVEDSCNFIIISNGGAQTYHLKASSEVERQRWVTALELAKAKAVKMLAESDESGDEESVSQTDKTELQNT
LRTLSSKVEDLSTCNDLIAKHGTALQRSLSELESKLPAESNEIKQVNERATLFRITSNAMINACRDFL
MLAQTHSKKWQKSLQYERDQRIRLEETLEQLAKQHNLERAFRGATVLPANTPGNVGSGKDQCCSGKGD
SDEDDENEFFDAPEIITMPENLGHKRTGSNISGASSDISLDEQYKHQLEETKKEKRTRIPYKPNYSLNLW
SIMKNCIGKELSKIPMPVNFNEPLSMLQRLTEDLEYHELLDRAAKCENSLEQLCYVAAFTVSSYSTTVFR
TSKPFNPLLGETFELDRLEENGYRSLCEQVSHPPAAAHHAESKNGWTLRQEIKITSKFRGKYL SIMPLG
TIIHCFHATGHHYTWKVTTTTVHNIIVGKLWIDQSGEIDIVNHKTGDKCNLKFVPYSYFSRDVARKVTGE
VTDPSGKVFHALLGTWDEKMECFKVQPVIGENGGDARQRGHEAEE SRVMLWKRNLPKNAENMYYS
LTLNAWESGTAPTDSRLRPDQRLMENGRWDEANAQRLQRLSRKKREAEAMKATEDGTPYDPYKAL
WFERKKDPVTKELTHIYRGEYWECKEKQDWSSCPDIF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2866_h05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002556

ORF Size: 2421 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_002556.3](#)

RefSeq Size: 5083 bp

RefSeq ORF: 2424 bp

Locus ID: 5007

UniProt ID: [P22059](#)

Cytogenetics: 11q12.1

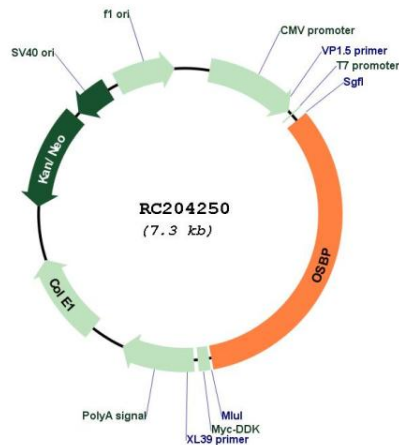
Domains: Oxysterol_BP, PH

Protein Families: Druggable Genome

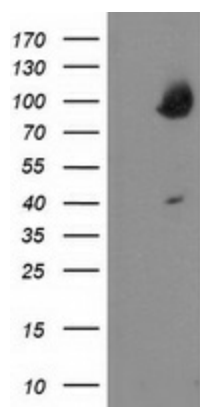
MW: 89.2 kDa

Gene Summary: Oxysterol binding protein is an intracellular protein that is believed to transport sterols from lysosomes to the nucleus where the sterol down-regulates the genes for the LDL receptor, HMG-CoA reductase, and HMG synthetase [provided by RefSeq, Jul 2008]

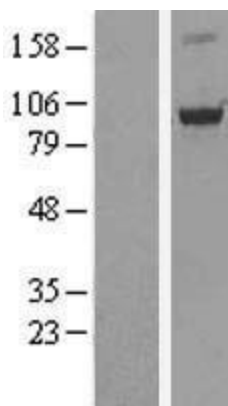
Product images:



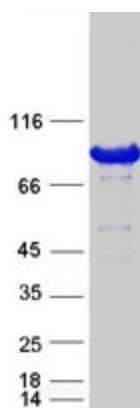
Circular map for RC204250



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY OSBP (Cat# RC204250, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-OSBP (Cat# [TA503140]). Positive lysates [LY419260] (100ug) and [LC419260] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419260]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204250 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OSBP protein (Cat# [TP304250]). The protein was produced from HEK293T cells transfected with OSBP cDNA clone (Cat# RC204250) using MegaTran 2.0 (Cat# [TT210002]).