

Product datasheet for **RC239241**

OSBP2 (NM_001282741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBP2 (NM_001282741) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OSBP2
Synonyms:	HLM; ORP-4; ORP4; OSBPL1; OSBPL4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239241 representing NM_001282741
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGGACCGGCTGCTGGGACACGGCCTCCGTGCGCTCCTTCTGCAGCTCCGGTGCCTGAATAAAT
TTAAGAAGGATGACTCTGGGACGACGACGAGGCTACCACCCAGCCGACAAGAGCGAGCTGCACCACAC
CCTGAAGAATCTTTCCCTGAAGTTAGATGACCTCAGCACGTGCAATGACCTCATCGCAAGCAGCGCGCT
GCACTCCAGCGCTCCCTGACAGAGCTGGACGGCCTCAAGATCCCATCTGAGAGTGGGAGAAGCTGAAGG
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GCCGGCCGGCCAAACCCCTCAAGAGCTTATTGAGGGAAGCCTTGTACTCCAAAGGAGAGGACAGTGA
GGAAGATGAAGATACCGAGTACTTTGATGCCATGGAAGACTCCACATCCTTCATCACCGTATCACCGAG
GCCAAGGAAGACAGCAGAAAAGCTGAAGGTAGCACCGGGACAAGTTCCGTGGACTGGAGCTCAGCAGACA
ATGTAAGTATAGTGGTGCCTCGCTCGTCCCAAGGGTTCATCCAAAGTCAAGAGGCGAGTCCGCATCCCAA
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CCCATGCCGGTGAACCTCAATGAGCCCCGTCCATGCTCCAGCGGCTGACAGAGGACCTGGAGTACCACC
ACCTGTGGACAAGGCAGTGCCTGCACAGCTCAGTGGAGCAGATGTGCTGGTGGCCGCTTCTCTGT
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CAGCTCGGAGGAAGCAGAGAAGGAGCGGATGCCTACACGCCACTGTGGTTTGAAGAGGCTGGATCCG
CTGACCGGGGAGATGGCCTGTGTGTACAAGGGCGGCTACTGGGAGGCCAAGGAGAAGCAAGACTGGCATA
TGTGCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239241 representing NM_001282741
 Red=Cloning site Green=Tags(s)

MKGRGCWDTASVRSFCSSGCLNKFKKDDSGDDDEATTPADKSELHHTLKNLSLKLLDDLSTCNDLIAKHGA
 ALQRSL TELDGLKIPSESGEKLKVVNERATLFRITSNAMINACRDFLELAEIHSRKWQRALQYEQEQRVH
 LEETIEQLAKQHNSLERAFHSAPGRPANPSKSFIEGSL LTPKGEDSEDEDTEYFDAMEDSTSFITVITE
 AKEDSRKAEGSTGTSSVDWSSADNVLDGASLVPKGSSKVKRRVRIPNKPNYSLNLWSIMKNCIGRELSRI
 PMPVNFNEPLSMLQRLTEDLEYHLLDKAVHCTSSVEQMCLVAAFVSSYSTTVHRIAKPFNPMLGETFE
 LDRLDDMGLRSLCEQVSHPPSAAHYVFSKHGWSLWQEITISSKFRGKYISIMPLGAIHLEFQASGNHYV
 WRKSTSTVHNIIVGKLWIDQSGDIEIVNHKTNDRCQLKFLPYSYFSKEAARKVTGVVSDSQGKAHYVLSG
 SWDEQMECSKVMHSSPSSSDGKQKTVYQTL SAKLLWKKYPLPENAMYYFSELALTLNEHEEGVAPT
 DSRLRPDQRLMEKGRWDEANTEKQRL EEKQRLSRRRRL EACGPGSSCSSEEAEKEADAYTPLWFEKRLDP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

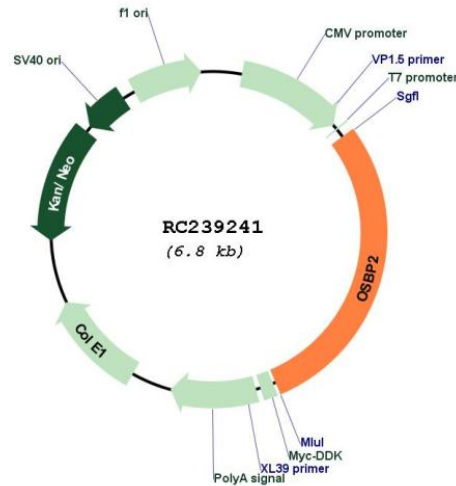
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282741

ORF Size: 1977 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_001282741.1](#), [NP_001269670.1](#)

RefSeq Size: 3589 bp

RefSeq ORF: 1980 bp

Locus ID: 23762

UniProt ID: [Q969R2](#)

Cytogenetics: 22q12.2

MW: 75.1 kDa

Gene Summary: The protein encoded by this gene contains a pleckstrin homology (PH) domain and an oxysterol-binding region. It binds oxysterols such as 7-ketocholesterol and may inhibit their cytotoxicity. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2013]