

Product datasheet for **RC223738**

OSBP2 (NM_030758) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBP2 (NM_030758) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OSBP2
Synonyms:	HLM; ORP-4; ORP4; OSBPL1; OSBPL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC223738 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAAGCGCGGCTCCGAGCCGAGCGCGGCTGTGGCGGCCGCTCCCGGGGCTCTCGTCGCTGT
 TCACGGTTGTCCCTGCCTGTCGTGCCACACGGCGGCCGGGCATGAGCGCTTCCACGTCCGGCTCCGG
 GCCGGAGCCCAAGCCCCAGCCCCAGCCGTGCCGAACCGGAGCGGGACCGCTGTCAGAACAGGTGTCG
 GAGGCAGTTTCGGAGGCAGTGCCAAGATCGGAACCTGTGTCCGAGACGACGTCTGAGCCGGAGCCAGGGG
 CTGGGCAGCCATCGAACTGCTGCAGGGGTGCGGGCCGGGGTCAGAGTCAAGCTCAGGTGTAGGGGCTGG
 GCCCTTACTAAGGCCGATCGGAGCCGCTCTCCGGGCGGTGGGAGCGCGACCTTCTCAGACCCGAG
 TCAGGATCGTGCACGCTTAAGCCCCGCTCTTCTGCGACCAGGACAGGCGAAGACTCCTCTTGGGG
 TTCCAATGTCGGGACTGGCAGCAGCTCCAGTCCCCACTGGCCTTACTGCCTCTGGACAGCTTCGAGGG
 CTGGCTTCTCAAGTGGACCAACTATCTGAAGGGTACCAGCGCCGCTGGTTCGTGCTGGCAATGGTTTG
 CTCTTACTACAGAAATCAGGGTGAAATGGCCCCACACGTGCCGTGGAACCATCAACCTGTCCACCGCGC
 ACATTGACACGGAGGACTCTTGTGGTATCTTGCTGACCAGTGGGGCCAGGAGCTACCACCTCAAGGCCAG
 CTCAGAGGTGGACCGGCAGCAGTGGATCACCGCCTGGAGCTGGCCAAGGCCAAGGCTGTCCGCTGATG
 AACACTCATTAGATGACTCTGGGGACGACGACGAGGCTACCACCCAGCCGACAAGAGCGAGCTGCACC
 ACACCCGAAGAATCTTCCCTGAAGTTAGATGACCTCAGCAGTGAATGACCTCATCGCCAAGCACGG
 CGCCGACTCCAGCGCTCCCTGACAGAGCTGGACGGCCTCAAGATCCCATCTGAGAGTGGGAGAAGCTG
 AAGGTGGTGAATGAGCGGGCCACCCTCTCCGCATCACATCCAATGCTATGATCAACGCCGTCAGGGACT
 TCTTGGAACTAGCAGAGATACACAGTCGAAATGGCAGCGGGCACTGCAGTATGACAGGGCAGCGCGT
 GCACCTGGAGGAAACATTGAGCAGCTGGCGAAGCAGCACAACAGCCTCGAGCGGGCCTCCACAGTGCC
 CCTGGCCGGCCGCAACCCCTCCAAGAGCTTCATTGAGGGAAGCCTCTTGACTCCCAAAGGAGAGGACA
 GTGAGGAAGATGAAGATACCGAGTACTTTGATGCCATGGAAGACTCCACATCCTTCATCACCGTGATCAC
 CGAGGCCAAGGAAGACAGAAAAGCTGAAGGTAGCACCGGGAAGTTCGTTGGACTGGAGCTCAGCAGAC
 AATGTAAGTACTAGTGGTGCCTCGCTCGTCCCAAGGGTTCATCCAAAGTCAAGAGGCGAGTCCGCATTCCCA
 ACAAGCCCAACTACAGCCTAACCTCTGGAGCATCATGAAGAAGTGCATCGGCCGGGAGCTCTCCAGGAT
 CCCCATGCCGGTGAAGTCAATGAGCCCTGTCCATGCTCCAGCGGCTGACAGAGGACTGGAGTACCAC
 CACCTGCTGGACAAGGCAGTGCAGTGCACCAGCTCAGTGGAGCAGATGTGCTGGTGGCCGCTTCTCTG
 GTGCTCTACTCCACCAGTGCACCGCATCGCCAAGCCCTCAACCCATGCTGGGGGAGACCTTCGA
 GCTGGACCGCTCGACGACATGGGCTGCGCTCCCTCTGTGAGCAGGTGAGCCACCACCCCTCAGCT
 GCGCACTACGTGTTCTCCAAGCATGGTGGAGCCTCTGGCAGGAGATCACCATCTCCAGCAAGTTCGGGG
 GAAATACATCTCCATCATGCCGCTAGGTGCCATCCACTAGAAATCCAGGCCAGTGGGAATCACTACGT
 GTGGAGGAAGAGCACCTCAACTGTTCAACAATCATCGTGGGCAAGCTCTGGATCGACCAGTCAAGGGAC
 ATCGAGATTGTGAACCATAAGACCAATGACCGGTGCCAGCTGAAGTTCCTGCCCTACAGTACTTCTCCA
 AAGAGGCAGCCCGAAGGTGACAGGAGTGGTGAAGTACAGCCAGGGCAAGGCCATTACGTGCTGTCCGG
 CTCGTGGGATGAACAAATGGAGTGTCTCAAGGTATGCATAGCAGTCCCAGCAGCCAGCTCTGACCGGG
 AAGCAGAAGACAGTGTACCAGACCCTGTACGCCAAGCTGCTGTGGAAGAAGTACCCGCTGCCGGAGAAGC
 CGGAGAACATGTACTACTTCTCAGAGCTGGCCCTGACCCTCAACGAGCAGAGGAGGGCGTAGCGCAAC
 CGACAGCCGCTGCGGCCGACAGCGGCTGATGGAGAAGGGCCGTTGGGACGAGGCCAATACCGAGAAG
 CAGCGGCTGGAGGAGAAGCAGCGCTGTGCGGGCCGGCGGCTGGAGGCTGCGGGCCGGGCAGCAGCT
 GCAGCTCGGAGGAAGAGAAGGAGGCGGATGCCTACACGCCACTGTGTTTGAAGAAGGCTGGATCCGCT
 GACCGGGGAGATGGCCTGTGTACAAGGGCGGCTACTGGGAGGCCAAGGAGAAGCAAGACTGGCATATG
 TGCCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223738 protein sequence
 Red=Cloning site Green=Tags(s)

MGKAAAPSRGGGCGGRSRGLSSLFTVVPCLSCHTAAPGMSASTSGSGPEPKPQPVPPEPERGPLESEQVS
 EAVSEAVPRSEPVSETTSEPEPGAGQPSSELLQGSRPGSESSSGVGAGPFTKAASEPLSRVAGSATFLRPE
 SGLPALKPLPLLRPGQAKTPLGVPMSGTGTSSAPLALLPLDSFEGWLLKWTNYLKGYQRRWFVLGNGL
 LSYYRNQGEMAHTCRGTINLSTAHIDTEDSCGILLTSGARSYHLKASSEVDRQQWITALELAKAKAVRVM
 NTHSDDSGDDDEATTPADKSELHHTLKNLSLKLDDLSTCNDLIAKHGAALQRSLTELDGLKIPSESGEKL
 KVVNERATLFRITSNAMINACRDFLELAEIHSRKWQRALQYEQEQRVHLEETIEQLAKQHNSLERAFHSA
 PGRPANPSKSFIEGSLTPKGEDSEEDTEYFDAMEDSTSFITVITEAKEDRKAEGSTGTSSVDWSSAD
 NVLDGASLVPKGSSKVKRRVRIPNKNPNYSLNLWSIMKNCIGRELSRIPMPVNFNEPLSMLQRLTEDLEYH
 HLLDKAVHCTSSVEQMCLVAAFSVSSYSTTVHRIAKPFNPMLGETFELDRDMDGLRSLCEQVSHHPPSA
 AHYVFSKHGWSLWQEITISSKFRGKYISIMPLGAIHLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGD
 IEIVNHKTNDRCQLKFLPYSYFSKEAARKVTGVVSDSQGKAHYVLSGSWDEQMECSKVMHSSPSSPSSDG
 KQKTVYQTL SAKLLWKKYPLPENAEAMYF SELALTLNEHEEGVAPTDSRLRPDQRLMEKGRWDEANTEK
 QRLEEKQRLSRRRREACGPGSSCSSEEEKEADAYTPLWFEKRLDPLTGEMACVYKGGYWEAKEKQDWHM
 CPNIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6561_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



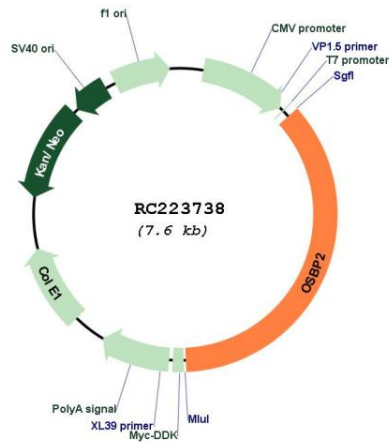
* The last codon before the Stop codon of the ORF

ACCN: NM_030758

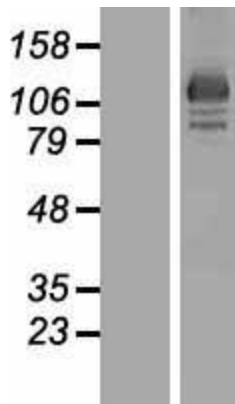
ORF Size: 2745 bp

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_030758.4
RefSeq Size:	4349 bp
RefSeq ORF:	2751 bp
Locus ID:	23762
UniProt ID:	Q969R2
Cytogenetics:	22q12.2
Domains:	Oxysterol_BP, PH
MW:	101.2 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]

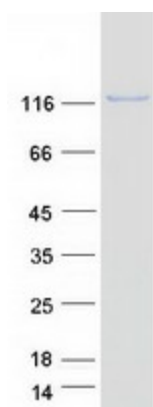
Product images:



Circular map for RC223738



Western blot validation of overexpression lysate (Cat# [LY410730]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223738 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OSBP2 protein (Cat# [TP323738]). The protein was produced from HEK293T cells transfected with OSBP2 cDNA clone (Cat# RC223738) using MegaTran 2.0 (Cat# [TT210002]).