

Product datasheet for **RC238857**

OSBP2 (NM_001282740) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBP2 (NM_001282740) 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:

>RC238857 representing NM_001282740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCAACGCCTGCAGGGACTTCTTGAAGTACAGAGATACACAGTCGGAAATGGCAGCGGGCACTGC
 AGTATGAGCAGGAGCAGCGCGTGCACCTTGGAGGAAACCATTGAGCAGCTGGCGAAGCAGCACAAACAGCCT
 CGAGCGGGCCTTCCACAGTGCCCTGGCCGGCCGCAACCCCTCCAAGAGCTTCATTGAGGGAAGCCTC
 TTGACTCCCAAAGGAGAGGACAGTGAGGAAGATGAAGATACCGAGTACTTTGATGCCATGGAAGACTCCA
 CATCCTTCATCACCGTATCACCGAGGCCAAGGAAGACAGAAAAGCTGAAGGTAGCACCGGGACAAGTTC
 CGTGGACTGGAGCTCAGCAGACAATGTACTAGATGGTGCCTCGCTCGTCCCAAGGGTTCATCCAAAGTC
 AAGAGGCGAGTCCGATCCCAACAAGCCCACTACAGCCTAACCTCTGGAGCATCATGAAGAAGTCA
 TCGGCCGGGAGCTCTCCAGGATCCCATGCCGGTGAATCAATGAGCCCTGTCCATGTCCAGCGGCT
 GACAGAGGACCTGGAGTACCACCCTGTGGACAAGGCAGTGCCTGCACCAGCTCAGTGGAGCAGATG
 TGCTGTGGCCGCTTCTCTGTGTCTCTACTCCACCAGTGCACCCGATCGCCAAGCCCTCAACC
 CCATGCTGGGGGAGACCTTCGAGCTGGACCGCCTCGACGACATGGGCCTGCGCTCCCTCTGTGAGCAGGT
 GAGCCACCACCCCTCAGCTGCGCACTACGTGTTCTCCAAGCATGGCTGGAGCCTCTGGCAGGAGATC
 ACCATCTCCAGCAAGTTCGGGGGAAAATACATCTCCATCATGCCGCTAGGTGCCATCCACTTAGAATTCC
 AGGCCAGTGGGAATCACTACGTGTGGAGGAAGAGCACCTCAACTGTTACAACATCATCGTGGGCAAGCT
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 CTGCCCTACAGCTACTTCTCCAAGAGGCAGCCGGAAGGTGACAGGAGTGGTGAAGTCAAGGTATGCATGCA
 AGCCCCATTACGTGCTGTCGGCTCGTGGGATGAACAAATGGAGTCTCCAAGGTATGCATGCAAGTCC
 CAGCAGCCCCAGCTCTGACGGGAAGCAGAGACAGTGTACCAGACCCTGTACGCCAAGCTGCTGTGGAAG
 AAGTACCCGCTGCCGGAGAACGCGGAGAACATGTACTACTTCTCAGAGCTGGCCCTGACCCTCAACGAGC
 ACGAGGAGGGCGTAGCGCAACCGACAGCCGCTGCGGCCGACAGCGGCTGATGGAGAAGGGCCGTTG
 GGACGAGGCCAATACCGAGAAGCAGCGGCTGGAGGAGAAGCAGCGCTGTGCGGGCGCCGGCGGCTGGAG
 GCCTGCGGGCCGGCAGCAGCTGCAGCTCGGAGGAAGAGAAGGAGGGGATGCCTACACGCCACTGTGGT
 TTGAGAAGAGGCTGGATCCGCTGACCGGGGAGATGGCCTGTGTGTACAAGGGCGGCTACTGGGAGGCCAA
 GGAGAAGCAAGACTGGCATAATGTGCCCAACATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238857 representing NM_001282740
 Red=Cloning site Green=Tags(s)

MINACRDFLELAEIHSRKWQRALQYEQEQRVHLEETIEQLAKQHNSLERAFHSAPGRPANPSKSFIEGSL
 LTPKGEDSEEDTEYFDAMEDSTSFITVITEAKEDRKAEGSTGTSSVDWSSADNVLDGASLVPKSSKV
 KRRVRIPNKNPNYSLNLSIMKNCIGRELSRIPMPVNFNEPLSMLQRLTEDLEYHHLLDKAVHCTSSVEQM
 CLYAAFSVSSYSTTVHRIAKPFNPMLGETFELDRLLDDMGLRSLCEQVSHHPPSAAHYVF SKHGWSLWQEI
 TISSKFRGKYISIMPLGATHLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGDIEIVNHKTNDRCQLKF
 LPYSYFSKEAARKVTGVVSDSQGKAHYVLSGSWDEQMECSKVMHSSPSSSDGKQKTVYQTL SAKLLWK
 KYPLPENAENMYFSELALTLNEHEEGVAPTD SRLRPDQRLMEKGRWDEANTEKQRL EEKQRLSRRRRL
 ACGPGSSCSSEEEKEADAYTPLWFEKRLDPLTGEMACVYKGGYWEAKEKQDWHMCPNIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

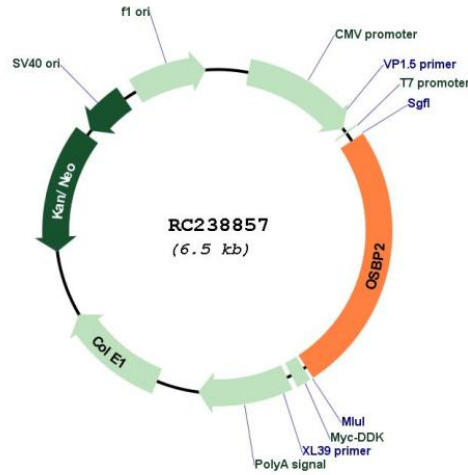
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001282740
ORF Size:	1647 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_001282740.2
RefSeq Size:	3529 bp
RefSeq ORF:	1650 bp
Locus ID:	23762
UniProt ID:	Q969R2
Cytogenetics:	22q12.2
MW:	63.2 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]