

Product datasheet for **RC234454**

ORP1 (OSBPL1A) (NM_001242508) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORP1 (OSBPL1A) (NM_001242508) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ORP1
Synonyms:	ORP-1; ORP1; OSBPL1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234454 representing NM_001242508
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATTAAGGAGTGTGACATGGCTAAAGAAATGCTTCCATCATTCTTTCAGAAAGTTGAAGTTGTCTCAG
 AAGCTTCTAGAGAACTTGTGTAGCTTTGACTGATTGCCTTAATCTTTCACAAACAAGAAGGGGTGAG
 GAATTTTAAATTGGAACAAGAGCAAGAAAAAACAATCTTGTGAGAAGCACTGGAGACGCTGGCCACT
 GAACATCATGAATTAGAGCAGTCTCTGGTGAAGGCTCTCACCCGCCAGCATCCTTAGCGAGGACGAGT
 TCTATGATGCGTGTGAGATTCCGAGTCCGAAAGGTCCTGAGTAGATTGGAAGCAGTGACAGCACGCTC
 CTTTGAAGAGGAAGGAGAGCATTGGGCAGTAGAAAACACAGAATGTCCGAAGAAAAGACTGTGGTGGC
 GGAGATGCTCTCCAATGGCATCAAGAAAACAGAACAAGTTTGCCTTCTCTATGTTTTCCAGAAATG
 ACTTCAGTATCTGGAGCATCCTCAGAAAATGTATTGGAATGGAATATCCAAGATCACGATGCCAGTTAT
 ATTTAATGAGCCTCTGAGCTTCTACAGCGCTAACTGAATACATGGAGCATACTTACCTCATCCACAAG
 GCCAGTTCACCTCTGATCCTGTGGAAAGGATGCAAGTGTAGCTGCGTTTGTGTATCTGCTGTTGCTT
 CTCAGTGGGAACGGACTGGAAAACCTTCAACCCACTGCTGGGAGAGACTTATGAATTAGTGCAGATGA
 CCTTGGATTTAGACTCATCTCCGAACAGGTCAGCCATCACCCACCAATCAGTGCATTTTCATGCTGAAGGA
 TTAACAATGACTTATCTTTTATGGCTCTATCTATCCAAACTGAAATCTGGGGGAAGAGTGTAGAAG
 CAGAACCACAAAGAACCATCACCTTGGAGCTCCTTGAACACAATGAGGCATATACATGGACAAATCCAC
 CTGCTGTGTGCATAATATCATTGTGGGTAAGTGTGGATCGAACAGTATGGCAATGTGGAAATATAAAC
 CACAAGACTGGGACAAATGTGTGTTGAATTTAAGCCATGTGCCTTTTTGGTAAGGAATTACACAAG
 TTGAAGGCTACATTCAAGATAAAAGCAAAAAGAAGCTCTGTGCCCTTATGGGAAGTGGACTGAATGTTT
 ATACAGTGTGACCTGCCACGTTTACGCTTACAAAAAATGATAAGAAAAATACAGAAGAGAAGAAG
 AACAGCAAAACAGATGAGCACCTCTGAGGAGTTGGATGAAATGCCAGTCCGGATTCTGAAAGTATTCA
 TTATCCCTGGAAGCGTTCTTCTATGGCGAATAGCCCCACGGCCTCCAAATCTGCCAGATGTATAATTT
 TACTAGTTTTGCAATGGTTTTGAATGAAGTAGACAAAGACATGGAGAGTGTGATCCCAAGACAGACTGC
 AGGTTACGGCCTGACATCAGAGCCATGGAAAATGGAGAGATAGATCAAGCTAGTGAAGAAAAAACGAC
 TTGAGGAAAAACAAGAGCAGCCCGCAAAAACAGGTCCAAGTCAAGAGGACTGGAAGACGAGGTGGTT
 CCATCAAGGTCTAATCCCTACAATGGAGCACAGGACTGGATTTACTCTGGCAGCTACTGGACAGAAAT
 TACTTCAATTTGCTGACATTTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234454 representing NM_001242508
 Red=Cloning site Green=Tags(s)

MIKECDMAKEMLPSFLQKVEVSEASRETCVALTDCLNLFKQEGVRNFKLEQEKEKNKILSEALETLAT
 EHHELEQSLVKGSPASILSEDEFYDALSDSESESLSRLEAVTARSFEEEGEHLGSRKHRMSEEKDCGG
 GDALSNIGIKKHTSLPSPMFSRNDFSIWSILRKCIGMELSKITMPVIFNEPLSFLQRLTEYMEHTYL IHK
 ASSLSDPVERMQVAAFVSAVASQWERTGKPFNPLGETYELVRDDLGFRLISEQVSHHPPISAFHAEG
 LNNDIFIHGSIYPKLKFVGKSVEAEPKGTITLLEHNEAYTWTNPTCCVHNIIVGKLWIEQYGNVEIIN
 HKTGDKCVLNFKPCGLFGKELHKVEGYIQDKSKKLCALYGKWECLYSVDPATFDAYKKNDKKNTEEEK
 NSKQMSSTSEELDEMPVPDSESVFIIPGSVLLWRIAPRPPNSAQMYNFTSFAMVLNEVDKDMESVIPKTD
 RLRPDIRAMENGEIDQASEEKKRLEEKQRAARKNRSKSEEDWKTRWFHQGPNPYNGAQDWIYSGSYWDRN
 YFNLPIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001242508

ORF Size: 1704 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_001242508.1](#), [NP_001229437.1](#)
RefSeq Size: 2968 bp

RefSeq ORF: 1707 bp

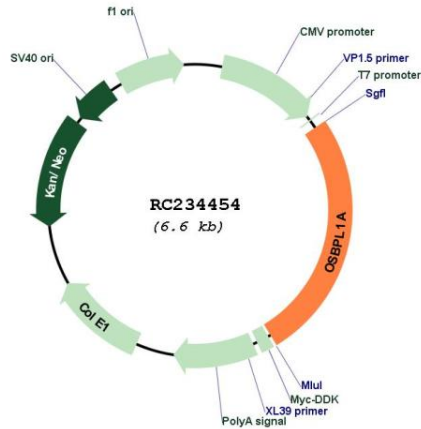
Locus ID: 114876

UniProt ID: [Q9BXW6](#)
Cytogenetics: 18q11.2

MW: 65.5 kDa

Gene Summary: This gene encodes a member of the oxysterol-binding protein (OSBP) family, a group of intracellular lipid receptors. Most members contain an N-terminal pleckstrin homology domain and a highly conserved C-terminal OSBP-like sterol-binding domain, although some members contain only the sterol-binding domain. Transcript variants derived from alternative promoter usage and/or alternative splicing exist; they encode different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC234454