

Product datasheet for SC110749

ORP1 (OSBPL1A) (NM_080597) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORP1 (OSBPL1A) (NM_080597) Human Untagged Clone
Tag:	Tag Free
Symbol:	ORP1
Synonyms:	ORP-1; ORP1; OSBPL1B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110749 sequence for NM_080597 edited (data generated by NextGen Sequencing)

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ATGAACACAGAAGCGGAGCAACAGCTTCTCCATCACGCCAGAAATGGCAATGCTGAAGAA
GTAAGACAACATATTAGAGACCATGGCGAGGAATGAAGTATTGCTGACATTAATTGCAAA
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CTTGAAGAATTACTTTTAGCAGCAGCAAGAGAAGGCAAAACAACAGAACTCACAGCTCTG
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TCAGATCCGAGTCCGAAAGTCCCTGAGTAGATTGGAAGCAGTGACAGCAGCTCCTTT

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GAAGAGGAAGGAGAGCATTGGGCGAGTAGAAAACACAGAATGTCCGAAGAAAAAGACTGT
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 ATGTTTTCCAGAAATGACTTCAGTATCTGGAGCATCCTCAGAAAAATGATTGGAATGGAA
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 CAAGGTCTAATCCCTACAATGGAGCACAGGACTGGATTTACTCTGGCAGCTACTGGGAC
 AGAAATTACTTCAATTTGCCTGACATTTATTA

Clone variation with respect to NM_080597.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080597 unedited
 TGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCGCCGGTCCCGGAGACA
 GACGTTACGCGGGCTCGAGCGTCTCGGGGAGTGCCAGCCAGAGTTGGTGACGACCACTT
 CCTCGACGTGGGCGGGCGGACGGGAAGCCTGGGGTCTGGCCACCGCTCGGGAGCTCT
 GGGAGCCCGGGTGACCGGTAGAAATGAACACAGAAGCGGAGCAACAGCTTCTCCATCAC
 GCCAGAAATGGCAATGCTGAAGAAGTAAGACAACCTATTAGAGACCATGGCGAGGAATGAA
 GTGATTGCTGACATTAATTGCAAAGGAAGAAGTAACTAACTTGGGCTGGACACCTCTA
 CATCTGGCATGCTATTTTGGACACAGACAAGTGGTCCAGGATCTGTTGAAGGCTGGTGCA
 GAAGTGAATGTGTTGAATGACATGGGAGACACGCCGCTTCATCGAGCTGCCTTTACAGGA
 CGAAAGGAGTTGGTAATGCTTCTTAGAATATAATGCTGATACTACTATTGTTAATGGG
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 GNATCAGTTAGGAAATACACCCTTGCAATTGTGCAGCTTACCGGGCCCATANACAATGTGC
 CTTAAAGCTCTAAGAAAGTGGANACAGACCCTAATCTGAAGACAAAAATGATCAGAAACTN
 CTTGACCTTGCCAGGGTCTGAAATGAACACAATTTGGTGGTAATA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_080597 unedited ATTGCTTAAGACCTTTTTTTAGCATCAGGTAGNATATTTTCATTATAACACTTGTTAACTT CAAAACAGCAATTAATAACACGGACTGGCAGCTACCTAGGCCCTGGGAGCAGTATCTCA GTCTGGGGTTTGGGTGGATAAATACTATAAGATTTAAGATGAATGTGCCCAATTAAGG GGCAAACTACTGTACAGTAGGTCTCCACACATATTTAAGTACACAGGTAAGTGTGCAAA CTTGAAATGCACAAGGCCTCCTTTTATATAGTTTGATACTTACATGAGTGCAACTACTT TCCCTAGTGGCATTGGCCACTGGAAGTGAAGCATTTAACAAGGTTTGTATTATGTAAT GGTGATTAATAATCTATATTTCTAGGCATTTTTGTGAATTGCTAGATTTTATACATATTT TCAGTTCAAATGTAACTTAACCATTTTAAATGATACTGACTGCAGAAAAGTAAAGTA AATTCAGAGCACTAAGTAAATGAAATACTTTCCAGTTTAATTCTTTAGAATTTTCAAAT CAGAAATATCTATTCTGAATATTCAGGCATTTTTTTCTTCTTGGGAAGATGGAAGGGTA ACATTGGGAGGATTAGTATGAATAAAAGCCATCTTATCAATGAAGTCTTATAAAATGAC ATAACCTCTATATCTGAGAATAAACATTGTATAGGAGGAGAGTTCTAAATATGTCAAAGG TTACATCTAAAACATTCAAGCATGACAGCATANAATATTTCAAATAACTTGATTTGGGA TTACTATATAGTCCATAAAGCTAAAGTTACATTTANGTATAAACCTTCAGTAAATATGG CAAACAGCACCATTAAAAGCATATTCNNCAGCAGTGTCTTACTNTATATANATAGTA TTCAAATAGTACATTTATAGCAAATATGCATTNTNCTAGACTTTATCACATATCGCCTAT ACCTGCTTTGTGGNTGAATGCAGTACTNATGATGT
Restriction Sites:	NotI-NotI
ACCN:	NM_080597
Insert Size:	4470 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_080597.2, NP_542164.2
RefSeq Size:	4165 bp
RefSeq ORF:	2853 bp
Locus ID:	114876
UniProt ID:	Q9BXW6
Cytogenetics:	18q11.2
Domains:	Oxysterol_BP, PH, ANK

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]

Transcript Variant: This variant (2, also known as ORP1L or OSBPL1B) encodes the longest isoform (2, also known as B). Isoform 2 contains three ankyrin repeats, a pleckstrin homology domain and a sterol-binding domain. Unlike the tissue-specific expression of variant 1, this variant is widely expressed.