

Product datasheet for **SC100072**

OSBPL2 (NM_144498) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBPL2 (NM_144498) Human Untagged Clone
Tag:	Tag Free
Symbol:	OSBPL2
Synonyms:	DFNA67; DNFA67; ORP-2; ORP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC100072 sequence for NM_144498 edited (data generated by NextGen Sequencing)

```

ATGAACGGAGAGGAAGAATTCTTTGATGCCGTCACAGGCTTTGATTCTGATAACTCTTCT
GGGGAATTTTCAGAGGCCAAATCAGAAAGTCACGGGAATGATTGACTTAGACACCAGCAA
AATAATAGGATTGGGAAAACCTGGGGAGAGGCCCTCTCAAGAGAACGGAATTCAGAAACAC
AGGACATCGTGCCGGCTCCCATGTTTCAGCAGAAGCGACTTCAGCGTGTGGACCATCCTG
AAGAAGTGTGTTGGCCTGGAGCTGTCCAAGATCACGATGCCAATCGCCTTCAACGAGCCT
CTGAGCTTCTTGACGCGATCACGGAGTACATGGAGCACGTGTACCTCATCCACAGGGCC
TCTGCCAGCCCCAGCCCTGGAGAGGATGCAGTCTGTGGCTGCTTTTGTGTTTCGGCT
GTGGCTTCCCAGTGGGAGAGGACCGCAAACATTTAATCCACTCTTGGGAGAAACGTAT
GAATTAATCAGGGAAGATTTAGGATTCAGATTTATATCGGAACAGGTCAGTCACCACCCC
CCCATCAGTGCCTTCCACTCGGAAGGTCTCAACCATGACTTCTGTTCCATGGCTCCATC
TACCCCAAGCTCAAGTTCTGGGGCAAAGCGTGGAGGCGGAGCCCCGAGGCACCATCACC
CTGGAGCTGCTCAAACATAATGAAGCCTACACCTGGACCAACCCACCTGCTGCGTCCAC
AACGTCATCATCGGAAGCTGTGGATAGAGCAGTATGGGACAGTGGAGATTTTAAACCAC
AGAACTGGACATAAGTGTGTGTTCACTTTAAACCGTGTGGATTATTTGAAAAGAACTT
CACAAGGTGGAAGGACACATTCAAGACAAAAACAAAAAGAAAGCTCTTTATGATCTATGGC
AAATGGACGGAATGTTTGTGGGCATAGATCCTGTTTCGTATGAATCCTTCAAGAAGCAG
GAGAGGAGAGGTGACCACCTGAGAAAGGCCAAGCTGGATGAAGACTCCGGGAAGGCTGAC
AGCGACGTGGCTGACGACGTGCCTGTGGCCAGGAGACCGTGCAGGTCATTCTGGCAGC
AAGTCTCTGGAGGATCAACACCCGGCCCCCAACTCTGCCAGATGTATAATTTACC
GACTGCCGCTGCGCCCTGACATCCGCGCATGGAGAATGGCAACATGGATCTGGCCAGG
CAGGAGAAGGAGCGGCTGGAGGAGAAGCAGAGAGAAGCAGGAGGAGCGGGCCAAAGGAG
GAGGCAGAGTGGCAGACGAGGTGTTCTACCCAGGCAATAACCCCTACACTGGGACCCCC
GACTGGTGTATGCAGGGGATTACTTTGAGCGGAATTTCTCCGACTGCCAGATATCTAC
TGA
    
```

Clone variation with respect to NM_144498.1

5' Read Nucleotide Sequence: >OriGene 5' read for NM_144498 unedited

```

GTTACAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCCGGCAACCG
AGGGACCCGCGTCCAGATCTTCAAGAGAAAGTTTGTAAAA
TTCCTTACACTGTAGATGTGGATCAGATACGATGATTAGTAGAAGAGCAGATGTCAGGG
GCAGTGGAGGCTGGCTGCTGAAGGATGAACGGAGAGGAAGAATTTCTTTGATGCCGTCACA
GGCTTTGATTCTGATAACTCTTCTGGGAATTTTCAGAGGCAAATCAGAAAGTCACGGGA
ATGATTGACTTAGACACCAGCAAAAATAATAGGATTGGGAAAACCTGGGAGAGGCCCTCT
CAAGAGAACGGAATTCAGAAACACAGGACATCGCTGCCGCTCCCATGTTTCAGCAGAAGC
GACTTCAGCGTGTGGACCATCCTGAAGAAGTGTGTTGGCCTGGAGCTGTCCAAGATCACG
ATGCCAATCGCCTTCAACGAGCCTCTGAGCTTCTTGCAGCGGATCACGGAGTACATGGAG
CACGTGTACCTCATCCACAGGGCCTCCTGCCAGCCCCAGCCCCTGGAGAGGATGCAGTCT
GTGGCTGCTTTTGTGTTTCGGCTGTGGCTTCCCAGTGGGAGAGGACCGCAAACCATTT
AATCCACTCTTGGGAGAAACGTATGAATTAATCAGGGAAGATTTAGGATTCAGATTTATA
TCGGAACAGGTCAGTACCACCCCCCATCAGTGCCTTCCACTCGAAGGTCTCAACCAT
GACTTCCCTGTCCATGGCTNCATCTACCCCAAGCTCAAAGTCTGGGCAAAGCGTGGAGG
CGGACCCCGAGCACCATCACCTGGAGCTGCTCAAACATATGAAGCCTACACCTGACCA
ACCCCACTGCTGCGTCCACACGTCATAT
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_144498 unedited ACACACCCACGCTTTCATAACAGTCCCGATTTTCCCTTTTTTTTTTCGCCTAAATAACT TTTATTACACCACTGCAAGTAAATTCTGCCTCTGACCCTGCCACAGGACACAACCGGATG GGATTCTTGCCACTTCTATTTTAAACATGCATACTGGGTAAAAACAGAAACACAACAGTG CTATGGGCACACGCCACGTGCGAGAAGAAAGGAACCCCTGCAGACACCGACGCGGTGTG CGGTGACACTCAGCCTTACTGACAACAGGGCAACCAATCTCAGCCGGGACCCCTTTGAG GCCGGAATCACACTTGGGATTTCTGCCCCGCCCTCCATGCCTTCTGCCACTCCGGCCC GTCCGGCCATGCTTCATTTTCGGACAGTACCAAACCGCGATTACATGCCTCTCTGCCC CTTCACCTCCAATACTATCCCCACCCCGTCTACCTCCCATACCTCAAAGTACATTCTT ACCTTTATCGAACATTGCCCAAACATACACCACCCCGACAACCTTTCTACTCCCTCT GCATGCTCCTGACAACCTTCCACTCTTTGTGCCGATCCATCACTTCCAATAAGGCCACT CCCCCTGGGTCCCCTATCACCCTTCTCCTGCCGAGGATTATCCGCTCTACCACCCCATC CTTCCCTCCCCTACTCGCGCCCCAAGGTTCAACAGGCCTCTTTGTCAAACCTGTGTT GCGCACTTGGCATTATCGACACTAGGCAACCTGGCAACCGTCTCCTGTAATTCAGCTT CCGTTGTGAACGTTACCCACATGCATATGAACCCGCACTAACTCGCGCTCGCGTATCCT CACACCAAGCTNTCCACGNTGCATTTTCATTGCCATCTCTTATAAAGAGGCCCCCTC GTCTGTA AACCACTCATTCTCTGCTGAACCATNCTCGTAATNTAACACACGCANTGCTA TCTCGACNCCGCACACATCTCCTCACTGTAATATACACCAAGTCTNACAGTTCCGTACA CGCGCCATACGCGCTGTGGCCCCATCGACCNATNGTGTACACCGANCGCAGCTCGCACC ACGCGGTTGCGCACCAATGTGNGACACGACGTGCGTCATCTATATCTCCGTCAACTCCGC GCACGCGTNCACATAAATCATCGGTGTTACTCGTCTGTTCCAGACAGGCGTATANACAT AGAGTCTCCTCTN
Restriction Sites:	NotI-NotI
ACCN:	NM_144498
Insert Size:	2800 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:	<u>NM_144498.1</u> , <u>NP_653081.1</u>
RefSeq Size:	3971 bp
RefSeq ORF:	1443 bp
Locus ID:	9885

UniProt ID: [Q9H1P3](#)

Cytogenetics: 20q13.33

Domains: Oxysterol_BP

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 the encoded protein contains only the sterol-binding domain. In vitro studies have shown that the encoded protein can bind strongly to phosphatic acid and weakly to phosphatidylinositol 3-phosphate, but cannot bind to 25-hydroxycholesterol. The protein associates with the Golgi apparatus. Transcript variants encoding different isoforms have been described. [provided by RefSeq, Sep 2014]

Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.