

Product datasheet for **SC126601**

OSBPL2 (NM_014835) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBPL2 (NM_014835) Human Untagged Clone
Tag:	Tag Free
Symbol:	OSBPL2
Synonyms:	DFNA67; DNFA67; ORP-2; ORP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126601 sequence for NM_014835 edited (data generated by NextGen Sequencing)

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ATGAACGGAGAGGAAGAATTCTTTGATGCCGTCACAGAGGCAAATCAGAAAGTCACGGGA
ATGATTGACTTAGACACCAGCAAAAATAATAGGATTGGGAAAACCTGGGGAGAGGCCCTCT
CAAGAGAACGGAATTCAGAAACACAGGACATCGCTGCCGGCTCCCATGTTACAGAGAAGC
GACTTCAGCGTGTGGACCATCTGAAGAAGTGTGTTGGCCTGGAGCTGCCAAGATCACG
ATGCCAATCGCCTTCAACGAGCCTCTGAGCTTCTTGACAGCGGATCACGGAGTACATGGAG
CAGTGTACCTCATCCACAGGGCCTCCTGCCAGCCCCAGCCCCTGGAGAGGATGCAGTCT
GTGGCTGCTTTTCTGTTTCCGGCTGTGGCTTCCAGTGGGAGAGGACCGGCAAACCATTT
AATCCACTCTTGGGAGAAACGTATGAATTAATCAGGGAAGATTTAGGATTCAGATTTATA
TCGGAACAGGTCAGTCACCACCCCCCATCAGTGCCTTCCACTCGGAAGGTCTCAACCAT
GACTTCTGTTCCATGGCTCCATCTACCCCAAGCTCAAGTTCTGGGGCAAAGCGTGGAG
GCGGAGCCCCGAGGCACCATCACCTGGAGCTGCTCAAACATAATGAAGCCTACACCTGG
ACCAACCCACCTGCTGCGTCCACAACGTCATCATCGGGAAGCTGTGGATAGAGCAGTAT
GGGACAGTGGAGATTTTAAACCACAGAAGTGGACATAAGTGTGTGCTTCACTTTAAACCG
TGTGGATTATTTGAAAAGAAGTTCACAAGGTGGAAGGACACATTCAAGACAAAAACAAA
AAGAAGCTCTTTATGATCTATGGCAAATGGACGGAATGTTTGTGGGGCATAGATCCTGTT
TCGTATGAATCCTTCAAGAAGCAGGAGAGGAGAGGTGACCACCTGAGAAAGGCCAAGCTG
GATGAAGACTCCGGGAAGGCTGACAGCGACGTGGCTGACGACGTGCCTGTGGCCAGGAG
ACCGTGCAGGTGATTCTTGGCAGCAAGCTGCTCTGGAGGATCAACACCCGGCCCCCAAC
TCTGCCAGATGTATAATTTACCAGTTTCACTGTGAGCCTCAACGAGCTGGAGACAGGC
AATGGAGAAGACCCTGCCACCCACGGACTGCCGCTGCCCTGACATCCGCGGCATGGAG
AATGGCAACATGGATCTGGCCAGCCAGGAGAAGGAGCGGCTGGAGGAGAAGCAGAGAGAA
GCACGGAGGGAGCGGGCCAAGGAGGAGGACAGAGTGGCAGACGAGGTGGTTCTACCCAGGC
AATAACCCCTACACTGGGACCCCGACTGGTTGTATGCAGGGGATTACTTTGAGCCGAAT
TTCTCCGACTGCCCAGATATCTACTGA

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Clone variation with respect to NM_014835.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_014835 unedited

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TTCAAATTTTGTAAATACGAACTACTATAGGGCGGCCGGAATTCGCACGAGTGAGCTCG
GCCGGCAACCGAGGGACCCGCTCCAGATCTTCAGTGTCTATTGGATTTTCCAAGAGAA
AGTTTGTAAAAATCCTTACACTGTAGATGTGGATCAGATACGATGATTACAGTAGAAGAGC
ACATGTGAGGGGAGTGGAGGCTGGCTGCTGAAGGATGAACGGAGAGGAAGAATCTTTG
ATGCCGTCACAGGCTTTGATTCTGATAACTCTTCTGGGAATTTTCAGAGGCAAATCAGA
AAGTCACGGGAATGATTGACTTAGACACCAGCAAAAATAATAGGATTGGGAAAACCTGGGG
AGAGGCCCTCTCAAGAGAACGGAATTCAGAAACACAGGACATCGCTGCCGGCTCCCATGT
TCAGCAGAAGCGACTTCAGCGTGTGGACCATCCTGAAGAAGTGTGTTGGCCTGGAGCTGT
CCAAGATCACGATGCCAATCGCCTTCAACGAGCCTCTGAGCTTCTTGCAGCGGATCACGG
AGTACATGGAGCACGTGTACCTCATCCACAGGGCCTCCTGCCAGCCCCAGCCCCTGGAGA
GGATGCAGTCTGTGGCTGCTTTTCTGTTTCCGGCTGTGGCTTCCAGTGGGAGAGGACCG
GCAAACCATTTAATCCACTCTTGGGAGAAACGTATGAATTAATCAGGNAAGATNTANGAT
TCAGATTTATATCGGAACAGGTGAGTACCACCCCCCATCAGTGCCTTCCACTCGAAGGT
CTCACCATGACTTNNCTGTCCATGGCTNCATCTACCCAAGCTCAAAGTCTGGGCAAAGC
GTGGAGGCGGAGCCCCGAGCACCATCACCTGNAGCTGCTAAACATAATGAGCCTACCCT
GGACAAAACCCACTGCTGTCCACACGTCATATCGGGAAGCTGTGATN

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014835 unedited CCTTTTAAAGAACCAATTTTTTTTTTTTTTTTTTCCCTTTTGGTTAAAAACCTTAATACA CCACCGGAAGTTGATTCTGCCCTGACCCTCCCCACGGAACAACCCGATGTGAATCTTGT GCCTTCTATTTTAAACACTGCCTCCGGGGAAAAAAAACCCAGAGTGCCTTGGGTTCCC CCCACCTGTGAAAAAAGGGACCCCTGGAGACCCCGCGCCGGGTGGGGGACCGCCA GGCCTCACTGACCACAGGCAACCAATCCAACCGGACCCCTCTGAAGCGGAAGCAGTC TTGGGATTTCTGTACGCTCTCGATGCTTCTGCCCACTCTGGTTGTACGGGGATGCT TCATTTTGGACAGTATAAAACCGGTGATTAATGCATATCTTGCTTTCAGCAAAATACTA TTCAAGTAGTTTTAACTTAAATATTTTAAAAGTAACTTTACATTATTGAAGATTGTAA AAAATACAGAATCTGACAACTTTTCACTCAATCTGATGCTCTGAAACTCTCACTTCTGT TTTATCATAATTTAGAAGCAATCCCTGGCCCTCTATAAACTCTTTCAGGATTAGCTTC AAAATCCATCTTTTCCCCCTGGTTCGGGTTAAAAGGCTTTAAAACCTTTTGCCTGCT TTTTAAAAAGAAAAGAGCCCTTCCCATTACTCTTTTAGTTCATGCTAAAAGTGA AAGGGGCTGGAGACCTAACACCCCCACTGTTTTTCCCCATAAAAAGCGCCCGGAA AATTTCCGTTGAACCTTATGGGAGAAAAGATCCCACTGGGCCTTTTGTAAAACCGCC G
Restriction Sites:	NotI-NotI
ACCN:	NM_014835
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:	NM_014835.2 , NP_055650.1
RefSeq Size:	3935 bp
RefSeq ORF:	1407 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 (1) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 2. The resulting isoform (1) has the same N- and C-termini but is shorter compared to 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.