

Product datasheet for **RG201344**

OSBPL2 (NM_144498) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBPL2 (NM_144498) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OSBPL2
Synonyms:	DFNA67; DNFA67; ORP-2; ORP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201344 representing NM_144498
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACGGAGAGGAAGAATTCTTTGATGCCGTCACAGGCTTTGATTCTGATAACTCTTCTGGGAATTTT
 CAGAGGCAAATCAGAAAGTCACGGGAATGATTGACTTAGACACCAGCAAAAATAATAGGATTGGGAAAAC
 TGGGGAGAGGCCCTCTCAAGAGAACGGAATTCAGAAACACAGGACATCGCTGCCGCTCCCATGTTTCAGC
 AGAAGCGACTTCAGCGTGTGGACCATCTGAAGAAGTGTGTTGGCCTGGAGCTGTCCAAGATCACGATGC
 CAATCGCCTTCAACGAGCCTCTGAGCTTCTGCAGCGGATCACGGAGTACATGGAGCACGTGTACCTCAT
 CCACAGGGCCTCTGCCAGCCCCAGCCCCTGGAGAGGATGCAGTCTGTGGCTGCTTTTGTGTTTCGGCT
 GTGGCTTCCCAGTGGGAGAGGACCGGCAAACATTTAATCCACTCTGGGAGAAACGTATGAATTAATCA
 GGAAGATTTAGGATTCAGATTTATATCGGAACAGGTCAGTACCACCCCCCATCAGTGCCTTCCACTC
 GGAAGTCTCAACCATGACTTCTGTTCCATGGCTCCATCTACCCAAGCTCAAGTTCTGGGGCAAAGC
 GTGGAGGCGGAGCCCCGAGGCACCATCACCTGGAGCTGCTCAAACATAATGAAGCTACACCTGGACCA
 ACCCCACCTGCTGCGTCCACAACGTCATCATCGGGAAGCTGTGGATAGAGCAGTATGGGACAGTGGAGAT
 TTTAAACCACAGAAGTGGACATAAGTGTGTGCTTCACTTTAAACCGTGTGGATTATTTGGAAAAGAAGT
 CACAAGGTGGAAGGACACATTCAAGACAAAAACAAAAGAAGCTCTTTATGATCTATGGCAAATGGACGG
 AATGTTTGTGGGCATAGATCCTGTTTCGATGAATCCTTCAAGAAGCAGGAGAGGAGAGGTGACCACCT
 GAGAAAGGCCAAGCTGGATGAAGACTCCGGGAAGGCTGACAGCGACGTGGCTGACGACGTGCCTGTGGCC
 CAGGAGACCGTGCAGGTCATTCTGGCAGCAAGCTGCTCTGGAGGATCAACACCCGGCCCCCAACTCTG
 CCCAGATGTATAATTTACCAGTTTCACTGTGAGCCTCAACGAGCTGGAGACAGGCATGGAGAAGACCT
 GCCACCCACGGACTGCCGCTGCCCTGACATCCGCGGCATGGAGAATGGCAACATGGATCTGGCCAGC
 CAGGAGAAGGAGCGGCTGGAGGAGAAGCAGAGAGAAGCACGGAGGAGCGGGCCAAGGAGGAGGCAGAGT
 GGCAGACGAGGTGGTTCTACCCAGGCAATAACCCCTACACTGGGACCCCCGACTGGTTGTATGCAGGGGA
 TTACTTTGAGCGGAATTTCTCCGACTGCCAGATATCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201344 representing NM_144498
 Red=Cloning site Green=Tags(s)

MNGEEFFDAVTGFDSNDSSEGFSEANQKVTGMIDLDTSKNNRIGKTGERPSQENGIQKHRTSLPAPMFS
 RSDFSVWTILKCVGLELSKITMPIAFNEPLSFLQRITEYMEHVLIHRASCQPQPLERMQSVAFAVSA
 VASQWERTGKPFNPLLGETYELIREDLGFRFISEQVSHHPPISAFHSEGLNHDFLFHGSIPKLFWGKS
 VEAERGTITLELLKHNEAYTWNPTCCVHNVIIGKLWIEQYGTVEILNHRTGHKCVLHFKPCGLFGKEL
 HKVEGHIQDKNKKLFMIYGKWTECLWGIDPVSYESFKKQERRGDHLRKAKLDEDSGKADSDVADDVPVA
 QETVQVIPGSKLLWRINTRPPNSAQMYNFTSFTVSLNELETGMEKTLPPDCRLRPDIRGMENGNMDLAS
 QEKERLEEKQREARRERAKEEAWQTRWFYPGNPNPYTGPDWLYAGDYFERNFSDCPDIY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_144498

ORF Size: 1440 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_144498.4](#)

RefSeq Size: 3971 bp

RefSeq ORF: 1443 bp

Locus ID: 9885

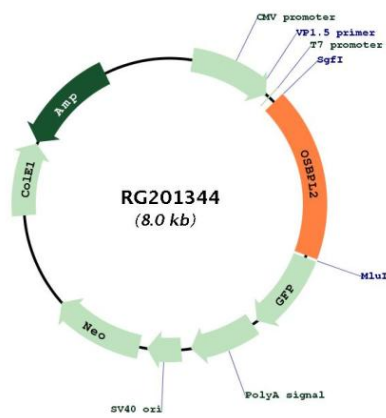
UniProt ID: [Q9H1P3](#)

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]

Product images:



Circular map for RG201344