

## Product datasheet for **RG215660**

### OSBPL2 (NM\_014835) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OSBPL2 (NM_014835) 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)



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**ORF Nucleotide Sequence:**

>RG215660 representing NM\_014835  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACGGAGAGGAAGAATTCTTTGATGCCGTCACAGAGGCAAATCAGAAAGTCACGGGAATGATTGACT  
 TAGACACCAGCAAAAATAATAGGATTGGGAAAACCTGGGGAGAGGCCCTCTCAAGAGAACGGAATTCAGAA  
 ACACAGGACATCGCTGCCGGCTCCCATGTTTCAGCAGAAGCGACTTCAGCGTGTGGACCATCTGAAGAAG  
 TGTGTTGGCCTGGAGCTGTCCAAGATCACGATGCCAATCGCCTTCAACGAGCCTCTGAGCTTCTGCAGC  
 GGATCACGGAGTACATGGAGCACGTGTACCTATCCACAGGGCCTCTGCCAGCCCCAGCCCCTGGAGAG  
 GATGCAGTCTGTGGCTGCTTTTGTCTGTTTCGGCTGTGGCTTCCCAGTGGGAGAGGACCGGCAAACCATTT  
 AATCCACTCTGGGAGAAACGTATGAATTAATCAGGGAAGATTTAGGATTCAGATTTATATCGGAACAGG  
 TCAGTACCACCCCCCATCAGTGCCTTCCACTCGGAAGGTCTCAACCATGACTTCTGTCCATGGCTC  
 CATCTACCCCAAGCTCAAGTTCTGGGGAAAAGCGTGGAGCGGAGCCCCGAGGCACCATCACCCCTGGAG  
 CTGCTCAAACATAATGAAGCCTACACCTGGACCAACCCACCTGCTGCGTCCACAACGTCATCATCGGGA  
 AGCTGTGGATAGAGCAGTATGGGACAGTGGAGATTTAAACCACAGAAGTGGACATAAGTGTGTGCTTCA  
 CTTAAACCGTGTGGATTATTTGGAAAAGAACTTCACAAGGTGGAAGGACACATTCAGCAAAAAACAAA  
 AAGAAGCTCTTTATGATCTATGGCAAAATGGACGGAATGTTTGTGGGGCATAGATCCTGTTTCGTATGAAT  
 CCTTCAAGAAGCAGGAGAGGAGAGGTGACCACCTGAGAAAGGCCAAGCTGGATGAAGACTCCGGGAAGGC  
 TGACAGCGACGTGGCTGACGACGTGCCTGTGGCCAGGAGACCGTGCAGGTCATTCTGGCAGCAAGCTG  
 CTCTGGAGGATCAACACCCGGCCCCCAACTCTGCCAGATGTATAATTTACCAGTTTCACTGTGAGCC  
 TCAACGAGCTGGAGACAGCATGGAGAAGACCCGCCACCCACGACTGCCGCCTGCGCCTGACATCCG  
 CGGCATGGAGAATGGCAACATGGATCTGGCCAGCCAGGAGAAGGAGCGGCTGGAGGAGAAGCAGAGAGAA  
 GCACGGAGGGAGCGGCCAAGGAGGAGGAGAGTGGCAGACGAGGTGGTCTACCCAGGCAATAACCCCT  
 ACACTGGGACCCCGACTGGTTGTATGCAGGGATTACTTTGAGCGGAATTTCTCCGACTGCCAGATAT  
 CTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG215660 representing NM\_014835  
 Red=Cloning site Green=Tags(s)

MNGEEFFDAVTEANQKVTGMIDLDTSKNNRIGKTGERPSQENGIQKHRTSLPAPMFSRSDFSVWTILKK  
 CVGLELSKITMPIAFNEPLSFLQRITEYMEHVYLIHRASCQPQLERMQSVAFAVSAVASQWERTGKPF  
 NPLLGETYELIREDLGFRFISEQVSHPPISAFHSEGLNHDFLHFGSIYPKLFKFWGKSVEAEPRGTITLE  
 LLKHNEAYTWTNPTCCVHNVIIGKLWIEQYGTVEILNHRTGHKCVLHFKPCGLFGKELHKVEGHIQDKNK  
 KKLFMIIYGKWECLWGIDPVSYESFKKQERRGDHLRKAKLDEDSGKADSDVADDVPVAQETVQVIPGSKL  
 LWRINTRPPNSAQMYNFTSFTVSLNELETGMEKTLPTDCRLRPDIRGMENGMMDLASQEKERLEEKQRE  
 ARRERAKEEAQWTRWFYPGNNPYTGTPDWLYAGDYFERNFSDCPDIY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_014835

**ORF Size:** 1404 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\\_014835.4](#)

**RefSeq Size:** 3935 bp

**RefSeq ORF:** 1407 bp

**Locus ID:** 9885

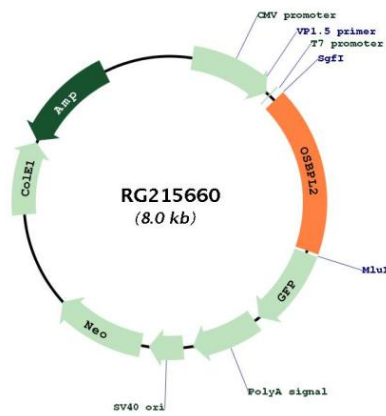
**UniProt ID:** [Q9H1P3](#)

**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]

**Product images:**



Circular map for RG215660