

## Product datasheet for **RG234454**

### ORP1 (OSBPL1A) (NM\_001242508) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ORP1 (OSBPL1A) (NM_001242508) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ORP1
Synonyms:	ORP-1; ORP1; OSBPL1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234454 representing NM\_001242508  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATTAAGGAGTGTGACATGGCTAAAGAAATGCTTCCATCATTCTTTCAGAAAGTTGAAGTTGTCTCAG  
 AAGCTTCTAGAGAACTTGTGTAGCTTTGACTGATTGCCTTAATCTTTCACAAACAAGAAGGGGTGAG  
 GAATTTTAAATTGGAACAAGAGCAAGAAAAAACAATACTTGTGAGAAGCACTGGAGACGCTGGCCACT  
 GAACATCATGAATTAGAGCAGTCTCTGGTCAAAGGCTCTCACCCGCCAGCATCCTTAGCGAGGACGAGT  
 TCTATGATGCGCTGTCAGATTCCGAGTCCGAAAGTCCCTGAGTAGATTGGAAGCAGTGACAGCACGCTC  
 CTTTGAAGAGGAAGGAGAGCATTGGGCAGTAGAAAACACAGAATGTCCGAAGAAAAAGACTGTGGTGGC  
 GGAGATGCTCTCCAATGGCATCAAGAAACACAGAACAAGTTTGCCTTCTCTATGTTTTCCAGAAATG  
 ACTTCAGTATCTGGAGCATCCTCAGAAAATGTATTGGAATGGAATATCCAAGATCACGATGCCAGTTAT  
 ATTTAATGAGCCTCTGAGCTTCTACAGCGCTAACTGAATACATGGAGCATACTTACCTCATCCACAAG  
 GCCAGTTCACCTCTGATCCTGTGGAAAGGATGCAGTGTGTAGCTGCGTTTGCTGTATCTGCTGTTGCTT  
 CTCAGTGGGAACGGACTGGAAAACCTTTCAACCCACTGCTGGGAGAGACTTATGAATTAGTGCAGATGA  
 CCTTGGATTTAGACTCATCTCCGAACAGGTGAGCCATCACCCACCAATCAGTGCATTTTCATGCTGAAGGA  
 TTAACAATGACTTCATCTTTTATGGCTCTATCTATCCAAACTGAAATCTGGGGGAAGAGTGTAGAAG  
 CAGAACCACAAAGAACCATCACCTTGGAGCTCCTTGAACACAATGAGGCATATACATGGACAAATCCAC  
 CTGCTGTGTGCATAATATCATTGTGGGTAAGTGTGGATCGAACAGTATGGCAATGTGGAAATATAAAC  
 CACAAGACTGGGACAAATGTGTGTTGAATTTAAGCCATGTGCCTTTTTGGTAAGGAATTACACAAG  
 TTGAAGGCTACATTCAAGATAAAAGCAAAAAGAAGCTCTGTGCCCTCTATGGGAAGTGGACTGAATGTTT  
 ATACAGTGTGACCCCTGCCACGTTTACGCTTACAAAAAATGATAAGAAAAATACAGAAGAGAAGAAAG  
 AACAGCAAAACAGATGAGCACCTCTGAGGAGTTGGATGAAATGCCAGTGCCGGATTCTGAAAGTATTCA  
 TTATCCCTGGAAGCGTTCTTCTATGGCGAATAGCCCCACGGCCTCCAAATCTGCCAGATGTATAATTT  
 TACTAGTTTTGCAATGGTTTTGAATGAAGTAGACAAAGACATGGAGAGTGTGATCCCAAGACAGACTGC  
 AGGTTACGGCCTGACATCAGAGCCATGGAAAATGGAGAGATAGATCAAGCTAGTGAAGAAAAAACGAC  
 TTGAGGAAAAACAAGAGCAGCCCGCAAAAACAGGTCCAAGTCAAGAGGACTGGAAGACGAGGTGGTT  
 CCATCAAGGTCTAATCCCTACAATGGAGCACAGGACTGGATTTACTCTGGCAGCTACTGGGACAGAAAT  
 TACTTCAATTTGCTGACATTTAT

**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA**

**Protein Sequence:**

>RG234454 representing NM\_001242508  
 Red=Cloning site Green=Tags(s)

MIKECDMAKEMLPFLQKVEVSEASRETCVALTDCLNLFKQEGVRNFKLEQEKEKNKILSEALETLAT  
 EHHELEQSLVKGSPPASILSEDEFYDALSDSESESLSRLEAVTARSFEEEGEHLGSRKHRMSEEKDCGG  
 GDALSNGIKKHRTSLPSPMFSRNDFSIWSILRKCIGMELSKITMPVIFNEPLSFLQRLTEYMEHTYLIIHK  
 ASSLSDPVERMQVAAFVAVASQWERTGKPFNPLLGETYELVRDDLGFRLISEQVSHHPPISAFHAEGL  
 LNNDFFIHGSIYPKLKFVGKSVAEAPKGTITLLEHNEAYTWTNPTCCVHNIIVGKLWIEQYGNVEIIN  
 HKTGDKCVLNFKPCGLFGKELHKVEGYIQDKSKKLCALYGKWECLYSVDPATFDAYKKNKNTTEKK  
 NSKQMSSEELDEMPVPDSESVFIIPGSVLLWRIAPRPPNSAQMYNFTSFAMVLNEVDKDMESVIPKTD  
 RLRPDIRAMENGEIDQASEKKRLEEKQRAARKNRKSEEDWKTRWFHQGPNPYNGAQDWIYSGSYWDRN  
 YFNLPDIY

**TRTRPLE – GFP Tag – V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001242508

**ORF Size:** 1704 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\\_001242508.1](#), [NP\\_001229437.1](#)

**RefSeq Size:** 2968 bp

**RefSeq ORF:** 1707 bp

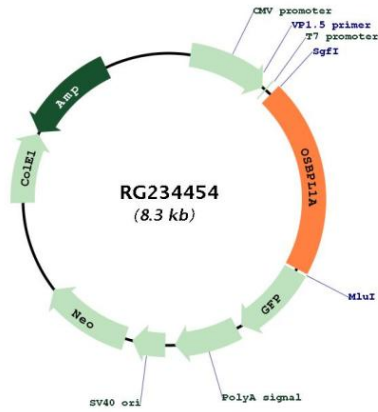
**Locus ID:** 114876

**UniProt ID:** [Q9BXW6](#)

**Cytogenetics:** 18q11.2

**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]

**Product images:**


Circular map for RG234454