

## Product datasheet for **RG206468**

### OCLN (NM\_002538) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OCLN (NM_002538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OCLN
Synonyms:	BLCPMG; PPP1R115; PTORCH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206468 representing NM\_002538  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCATCCAGGCTCTTGAAAGTCCACCTCCTTACAGGCTGATGAATCAAACCGAATCATTATGCAC  
 CAAGCAATGACATATATGGTGGAGAGATGCATGTTGACCAATGCTCTCTCAGCCAGCCTACTCTTTT  
 CCCAGAAGATGAAATTCTTCACTTCTACAAATGGACCTCTCTCCAGGAGTGATTCGGATCCTGTCTATG  
 CTCATTATTGTGATGTGCATTGCCATCTTTGCCTGTGTGGCTCCACGCTTGCCTGGGACAGAGGCTATG  
 GAACCTCCCTTTAGGAGGTAGTGTAGGCTACCCTTATGGAGGAAGTGGCTTTGGTAGCTACGGAAGTGG  
 CTATGGCTATGGCTATGGTTATGGCTATGGCTACGGAGGCTATACAGACCAAGAGCAGCAAAGGGCTTC  
 ATGTTGGCCATGGCTGCCTTTTGTTCATTGCCGCTTGGTGATCTTTGTTACCAGTGTATAAGATCTG  
 AAATGTCCAGAACAAGAAGATACTACTTAAGTGTGATAATAGTGAGTGCATCCTGGGCATCATGGTGT  
 TATTGCCACAATTGTCTATATAATGGGAGTGAACCAACTGCTCAGTCTTCTGGATCTCTATATGGTTCA  
 CAAATATATGCCCTCTGCAACCAATTTTATACCTTGCAGCTACTGGACTCTACGTGGATCAGTATTCTGT  
 ATCACTACTGTGTGTGGATCCCCAGGAGGCCATTGCCATTGACTGGGGTTCATGATTATTGTGGCTTT  
 TGCTTTAATAATTTCTTTGCTGTGAAAACCGAAGAAAGATGGACAGGTATGACAAAGTCCAATATTTTG  
 TGGGACAAGGAACACATTTATGATGAGCAGCCCCCAATGTGCGAGGAGTGGGTTAAAAATGTGTCTGCAG  
 GCACACAGGACGTGCCTTACCCCCATCTGACTATGTGAAAGAGTTGACAGTCCCATGGCATACTTTC  
 CAATGGCAAAGTGAATGACAAGCGGTTTTATCCAGAGTCTTCTATAAATCCACGCCGTTCTCTGAAGTG  
 GTTCAGGAGCTTCCATTAACCTTCGCTGTGGATGACTTCAGGCAGCCTCGTTACAGCAGCGGTGGTAACT  
 TTGAGACACCTTCAAAAAGAGCACCTGCAAAGGGAAGCAGGAAGGTTCAAAGAGAACAGAGCAAGATCA  
 CTATGAGACAGACTACACAACCTGGCGGCTCCTGTGATGAGCTGGAGGAGGACTGGATCAGGGAATAT  
 CCACCTATCACTTCAAGTCAACAAGACAACGTACAAGAGGAATTTTGACACTGGCCTACAGGAATACA  
 AGAGCTTACAATCAGAACTTGTGAGATCAATAAAGAACTCTCCCGTTTGGATAAAGAATTGGATGACTA  
 TAGAGAAGAAAGTGAAGAGTACATGGCTGCTGCTGATGAATACAATAGACTGAAGCAAGTGAAGGGATCT  
 GCAGATTACAAAAGTAAAGAATCATTGCAAGCAGTTAAAGAGCAAATTGTCACACATCAAGAAGATGG  
 TTGGAGACTATGATAGACAGAAAACA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG206468 representing NM\_002538  
 Red=Cloning site Green=Tags(s)

MSSRPLESPPPYRPFDEFKPNHYAPSNDIYGGEMHVRPMLSQPAYSFYPEDEILHFYKWTSPPGVIRILSM  
 LIIVMCI AIFACVASTLAWDRGYGTSLLGGSVGYPYGSGFGSYGSGYGYGYGYGGYDPRAAKGF  
 MLAMAFCFIAALVIFVTSVIRSEMSRTRRYLSVIIVSAILGIMVFIATIVYIMGVNPTAQSSGLYGS  
 QIYALCNQFYTPAATGLYVDQYSYHYCVVDPQEAIAIVLGFMIIVAFALIIFFAVKTRRKMDRYDKSNIL  
 WDKEHIYDEQPPNVEEWKNSAGTQDVSPSPSDYVERVDSPMAYSSNGKVNDKRFYPESYKSTPVPEV  
 VQELPLTSPVDDFRQPRYSGGNFETPSKRPAKGRAGRSKRTEQDHYETDYTTGGESCELEEDWIREF  
 PPITSDQQRQLYKRNFDGLQEYKSLQSELDEINKELSRDKELDDYREESEEYMAAADEYNRLKQVKGS  
 ADYKSKKNHCKQLKSKLSHIKKMVGDRQKT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_002538

ORF Size: 1566 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

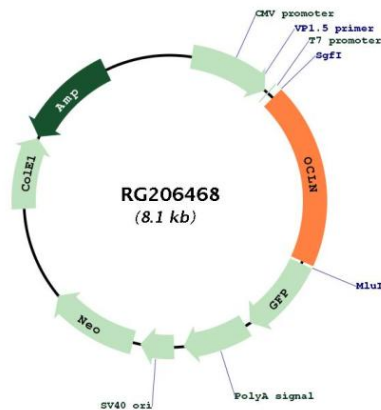
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_002538.2](#), [NP\\_002529.1](#)

RefSeq Size: 2648 bp  
 RefSeq ORF: 1569 bp  
 Locus ID: 100506658  
 UniProt ID: [Q16625](#)  
 Cytogenetics: 5q13.2  
 Domains: MARVEL

**Gene Summary:** This gene encodes an integral membrane protein that is required for cytokine-induced regulation of the tight junction paracellular permeability barrier. Mutations in this gene are thought to be a cause of band-like calcification with simplified gyration and polymicrogyria (BLC-PMG), an autosomal recessive neurologic disorder that is also known as pseudo-TORCH syndrome. Alternative splicing results in multiple transcript variants. A related pseudogene is present 1.5 Mb downstream on the q arm of chromosome 5. [provided by RefSeq, Apr 2011]

### Product images:



Circular map for RG206468