

Product datasheet for **SC322559**

OCLN (NM_002538) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OCLN (NM_002538) Human Untagged Clone
Tag:	Tag Free
Symbol:	OCLN
Synonyms:	BLCPMG; PPP1R115; PTORCH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

```
>OriGene sequence for SC322559
GTCCCCGGCTGAGCGCTGGCGGTGCGGCGTCAGGTGCGCCCGCCAGGTGAGCGCGC
TCCCTGGCACCCTTGGCCCCGGAGGGTCGGGCCAGTTGCGGCGAGCGGATTGGTTTAT
CTTGAAGCTAAAGGGCATTGCTCATCTGAAGATCAGCTGACCATTGACAATCAGCCAT
GTCATCCAGGCCCTTTGAAAGTCCACCTCCTTACAGGCCTGATGAATCAAACCGAATCA
TTATGCACCAAGCAATGACATATATGGTGGAGAGATGCATGTTTCGACCAATGCTCTCTCA
GCCAGCCTACTCTTTTTACCCAGAAGATGAAATTCCTCACTTCTACAAATGGACCTCTCC
TCCAGGAGTGATTTCGGATCCTGTCTATGCTCATTATTGTGATGTGCATTGCCATCTTTC
CTGTGTGGCCTCCACGCTTGCCTGGGACAGAGGCTATGGAACCTCCCTTTTAGGAGGTAG
TGTAGGCTACCCTTATGGAGGAAGTGGCTTTGGTAGCTACGGAAGTGGCTATGGCTATGG
CTATGGTTATGGCTATGGCTACGGAGGCTATACAGACCAAGAGCAGCAAAGGGCTTCAT
GTTGGCCATGGCTGCCTTTTGTTCATTGCCGCTTGGTGATCTTTGTTACCAGTGTAT
AAGATCTGAAATGTCCAGAACAAGAAGATACTACTTAAAGTGTGATAATAGTGAGTGTAT
CCTGGGCATCATGGTGTATTGCCACAATTGTCTATATAATGGGAGTGAACCCAATGC
TCAGTCTTCTGGATCTCTATATGGTTACAAATATATGCCCTCTGCAACCAATTTTATAC
ACCTGCAGCTACTGGACTCTACGTGGATCAGTATTCGTATCACTACTGTGTTGTGGATCC
CCAGGAGGCCATTGCCATTGACTGGGGTTCATGATTATTGTGGCTTTTGCTTTAATAAT
TTTCTTTGCTGTGAAAACCTCGAAGAAAGATGGACAGGTATGACAAGTCCAATATTTTGTG
GGACAAGGAACACATTTATGATGAGCAGCCCCCAATGTCGAGGAGTGGGTTAAAAATGT
GTCTGCAGGCACACAGGACGTGCCTTACCCCCATCTGACTATGTGAAAAGAGTTGACAG
TCCCATGGCATACTCTTCCAATGGCAAAGTGAATGACAAGCGGTTTTATCCAGAGTCTTC
GTATAAATCCACGCCGGTCTCTGAAGTGGTTCAGGAGCTTCCATTAACCTCGCCTGTGGA
TGACTTCAGGCAGCCTCGTTACAGCAGCGGTGGTAACTTTGAGACACCTTCAAAAAGAG
ACCTGCAAAGGGAAGAGCAGGAAGGTCAAAGAGAACAGAGCAAGATCACTATGAGACAGA
CTACACAACCTGGCGCGAGTCTGTGATGAGCTGGAGGAGGACTGGATCAGGGAATATCC
ACCTATCACTTCAGATCAACAAAGACAACGTACAAGAGGAATTTTGACTGCGCTACA
GGAATACAAGAGCTTACAATCAGAACTTGATGAGATCAATAAAGAACCTCCCGTTTGG
TAAAGAATTGGATGACTATAGAGAAGAAAGTGAAGAGTACATGGCTGCTGCTGATGAATA
CAATAGACTGAAGCAAGTGAAGGGATCTGCAGATTACAAAAGTAAAGAAGATCATTGCAA
GCAGTTAAAGAGCAAATGTGCACATCAAGAAGATGGTTGGAGACTATGATAGACAGAA
AACATAGAAGGCTGATGCCAAGTTGTTGAGAAATTAAGTATCTGACATCTCTGCAATCT
TCTCAGAAGGCAAATGACTTTGGACCATAACCCCGGAAGCCAAACCTCTGTGAGCATCAC
AAAGTTTTGGTTGCTTTAACATCATCAGTATTGAAGCATTATTAATAATCGCTTTTGATAA
TCAACTGGGCTGAACACTCCAATTAAGGATTTTATGCTTTAAACATTGGTTCTTGATTA
AGAATGAAATACTGTTTGAGGTTTTTAAGCCTTAAGGAAGGTTCTGGTGTGAACAAAC
TTTCACACCCAGACGATGTCTTACATACCTACATGATTTGTTTGCATAGGTGATCTCAT
TTAATCCTCTCAACCACCTTTGAGATACTGTTATTTAATCACTTTTTTCCACATAAG
GAAACTGGGTTCTGCAATGAAGTCTCTGAAGTGAACCTGCTTGTTCCTAGCACACT
TTTGGTTAAGTCTGTTTTATGACTTCATTAATAATAAATCCCTGGCCTTTCATATTTTA
GCTACTATATATGTGATGATCTACCAGCCTCCCTATTTTTTTTTCTGTTATATAAATGGTT
AAAAGAGGTTTTTCTTAATAATAAAGATCATGTAAAAGTAAAAAAAAAAAAAAAAAAAAA
AAAAAA
```

Restriction Sites:

Please inquire

ACCN:

NM_002538

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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode isoform a. 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.