

Product datasheet for **SC118584**

OCN (NM_002538) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | OCN (NM_002538) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | OCN |
| Synonyms: | BLCPMG; PPP1R115; PTORCH1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC118584 sequence for NM_002538 edited (data generated by NextGen Sequencing)

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ATGTCATCCAGGCCTCTTGAAAGTCCACCTCCTTACAGGCCTGATGAATTCAAACCGAAT
CATTATGCACCAAGCAATGACATATATGGTGGAGAGATGCATGTTTCGACCAATGCCTCT
CAGCCAGCCTACTCTTTTACCCAGAAGATGAAATTCCTCACTTCTACAAATGGACCTCT
CCTCCAGGAGTGATTCCGATCCTGTCTATGCTCATTATTGTGATGTGCATTGCCATCTTT
GCCTGTGTGGCCTCCACGCTTGCCTGGGACAGAGGCTATGGAACCTCCCTTTTAGGAGGT
AGTGTAGGCTACCCTTATGGAGGAAGTGGCTTTGGTAGCTACGGAAGTGGCTATGGCTAT
GGCTATGGTTATGGCTATGGCTACGGAGGCTATACAGACCCAAGAGCAGCAAAGGGCTTC
ATGTTGGCCATGGCTGCCTTTTGTTCATTGCCGCGTTGGTGATCTTTGTTACCAGTGTT
ATAAGATCTGAAATGTCCAGAACAAGAAGATACTACTTAAGTGTGATAATAGTGAGTGCT
ATCCTGGGCATCATGGTGTATTATGCCACAATTGTCTATATAATGGGAGTGAACCAACT
GCTCAGTCTTCTGGATCTCTATATGGTTACAAATATATGCCCTCTGCAACCAATTTTAT
ACACCTGCAGCTACTGGACTCTACGTGGATCAGTATTTGTATCACTACTGTGTTGGAT
CCCCAGGAGGCCATTGCCATTGTACTGGGGTTCATGATTATTGTGGCTTTTGCTTTAATA
ATTTTCTTTGCTGTGAAAACCTCGAAGAAAGATGGACAGGTATGACAAGTCCAATATTTTG
TGGGACAAGGAACACATTTATGATGAGCAGCCCCCAATGTGAGGAGTGGGTTAAAAAT
GTGCTGCAGGCACACAGGACGTGCCTTACCCCCATCTGACTATGTGAAAAGAGTTGAC
AGTCCCATGGCATACTCTTCCAATGGCAAAGTGAATGACAAGCGGTTTTATCCAGAGTCT
TCCTATAAATCCACGCCGGTTCCTGAAGTGGTTCAGGAGCTTCCATTAACCTCGCCTGTG
GATGACTTCAGGCAGCCTCGTTACAGCAGCGGTGGTAACTTTGAGACACCTTCAAAAAGA
GCACCTGCAAAGGAAGAGCAGGAAGGTCAAAGAGAACAGAGCAAGATCACTATGAGACA
GACTACACAACCTGGCGGGAGTCTGTGATGAGCTGGAGGAGGACTGGATCAGGGAAAT
CCACCTATCACTTCAGATCAACAAGACAACCTGTACAAGAGGAATTTTGACACTGGCCTA
CAGGAATACAAGAGCTTACAATCAGAACTTGATGAGATCAATAAAGAACCTCTCCCGTTG
GATAAAGAATTGGATGACTATAGAGAAGAAAGTGAAGAGTACATGGCTGCTGCTGATGAA
TACAATAGACTGAAGCAAGTGAAGGGATCTGCAGATTACAAAAGTAAAGAAGATCATTGC
AAGCAGTTAAAGAGCAAATTTGTCACACATCAAGAAGATGGTTGGAGACTATGATAGACAG
AAAACATAG
    
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Clone variation with respect to NM_002538.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002538 unedited
NNGGGGCCNNNNNNNNNNNAACCCNNGGTTTCCAGAATTGTATACGACTCACTATAGGC
GGCCGCGAATTCGGCACCAGAGGAAACCGAGAACCAGGTCCAGAGCGCCGAGGAGCCGGT
CTAGGACGCAGCAGATTGGTTTATCTTGGAAAGCTAAAGGGCATTGCTCATCCTGAAGATC
AGCTGACCATTGACAATCAGCCATGTCTCCAGGCCTCTTGAAGTCCACCTCCTTACAG
GCCTGATGAATTCAAACCGAATCATTATGCACCAAGCAATGACATATATGGTGGAGAGAT
GCATGTTTCGACCAATGCTCTCTCAGCCAGCCTACTCTTTTACCCAGAAGATGAAATTCT
TCACTTCTACAAATGGACCTCTCCTCCAGGAGTGATTCGGATCCTGTCTATGCTCATTAT
TGTGATGTGCATTGCCATCTTTGCCTGTGTGGCCTCCACGCTTGCCTGGGACAGAGGCTA
TGGAACTTCCCTTTTAGGAGGTAGTGTAGGCTACCCTTATGGAGGAAGTGGCTTTGGTAG
CTACGGAAGTGGCTATGGCTATGGCTATGGTTATGGCTATGGCTACGGAGGCTATACAGA
CCCAAGAGCAGCAAAGGGCTTCATGTTGGCCATGGCTGCCTTTTGTTCATTGCCGCGTT
GGTGATCTTTGTTACCAGTGTTATAAGATCTGANATGTCCAGAACAAGAAGATACTACTT
AAGTGTGATAATAGTGAGTGCTATCCTGGGCATCATGGTGTNNATTGCCACANTGTCTA
TATAATGGGAGTGAACCCNACTGCTCAGTCTTCTGGATCTCTATATGGNTCACAATATA
TGCCCTCTGNCACCAATTTATACACCTGCAGCTACTGGACTCTACGTGGATCAGTATTGT
ATCACTACTGNNGTNGGNATCCCCAGNAGGCCATNGNNCATNGTACTGGGGNNTCATGA
TTATGNGGGCTNNTGCTTATAAATNTCTTTGCTGN
    
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| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_002538 unedited GTTGAGTTTTATTTTTTTTTTTTTTACTTTTACATGATCTTTATTATTTAAGAAAAACC TCTTTAAACATTATATAACAGAAAAAATAGGGAGGCTGGTAGATCATCACATATAT AGTAGCTAAAATATGAAAGGCCAGGGAATTTATTATTAATGAAGTCATAAAACAGACTTA ACCAAAAGTGTGTGCTAGGAAACAAGCAGTTTCACTTCAGAGACTTCATTGCAGGAACCC AGTTTCCTTATGTGAAAAAAGTGATTATAAATAACAGTTATCTGAAAGGTGGTTGAGAG GATTAATGAGATCACCTATGCAAACAATAACATGTAGGTATGAAGACATCGTCTGGGGT GTGAAAGTTTAGTTCACACCAGAACCTTCTTTAAGGCTTAAAAACCTCAAACAGTATTT CATTCTTAATAACAAGAACCAATGTTTAAAGCATAAAATCCTTAATTGGAGTGTTAGGCC AGTTGATTATCAAAGCGATTTATAAAATGCTTCAATACTGATGATGTTAAAGCAACCAA AACTTTGTGATGCTCACAGAGGTTTGGCTCCGGGGTTATGGTCCAAAGTCATTTGCCTT CTGAGAAGATTGCAGAGATGTCAGATACTTAATTTCTCAAACAATTGGCATCAGCCTTC TATGTTTTCTGTCTATCATAGTCTCCACCATCTTCTTGATGTGTACAATTTGCTCTTT AACTGGCTGCAATGANNTCTNNCTACTTTGNAATCTGCAGATCCCCTCACTTGCTTCAGT CTATTGTATTCATCAGCAGCAGCCATGTACTTCACTTTCTTCTCTATAGTCATCCAAT TTCTTTATCCAACGGA</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_002538 |
| Insert Size: | 2500 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| 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: | <ol style="list-style-type: none"> 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.