

Product datasheet for **RC234348**

Occludin (OCLN) (NM_001205254) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Occludin (OCLN) (NM_001205254) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Occludin
Synonyms:	BLCPMG; PPP1R115; PTORCH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234348 representing NM_001205254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCCAGGCCTCTTGAAAGTCCACCTCCTTACAGGCCTGATGAATCAAACCGAATCATTATGCAC
 CAAGCAATGACATATATGGTGGAGAGATGCATGTTGACCAATGCTCTCTCAGCCAGCCTACTCTTTT
 CCCAGAAGATGAAATTCTTCACTTCTACAAATGGACCTCTCTCCAGGAGTGATTCGGATCCTGTCTATG
 CTCATTATTGTGATGTGCATTGCCATCTTTGCCTGTGTGGCTCCACGCTTGCCTGGGACAGAGGCTATG
 GAACCTCCCTTTAGGAGGTAGTGTAGGCTACCCTTATGGAGGAAGTGGCTTTGGTAGCTACGGAAGTGG
 CTATGGCTATGGCTATGGTTATGGCTATGGCTACGGAGGCTATACAGACCAAGAGCAGCAAAGGGCTTC
 ATGTTGGCCATGGCTGCCTTTTGTTCATTGCCGCTTGGTGATCTTTGTTACCAGTGTATAAGATCTG
 AAATGTCCAGAACAAGAAGATACTACTTAAGTGTGATAATAGTGAGTGCATCCTGGGCATCATGGTGT
 TATTGCCACAATTGTCTATATAATGGGAGTGAACCAACTGCTCAGTCTTCTGGATCTCTATATGGTTCA
 CAAATATATGCCCTCTGCAACCAATTTTATACCTTGCAGCTACTGGACTCTACGTGGATCAGTATTTCGT
 ATCACTACTGTGTGTGGATCCCGAGGAGCCATTGCCATTGACTGGGGTTCATGATTATTGTGGCTTT
 TGCTTTAATAATTTCTTTGCTGTGAAACTCGAAGAAAGATGGACAGGTATGACAAGTCCAATATTTTG
 TGGGACAAGGAACACATTTATGATGAGCAGCCCCCAATGTGAGGAGTGGGTTAAAAATGTGTCTGCAG
 GCACACAGGACGTGCCTTACCCCCATCTGACTATGTGAAAGAGTTGACAGTCCCATGGCATACTTTC
 CAATGGCAAAGTGAATGACAAGCGGTTTTATCCAGAGTCTTCTATAAATCCACGCCGTTTCTGAAGTG
 GTTCAGGAGCTTCCATTAACCTTCGCTGTGGATGACTTCAGGCAGCCTCGTTACAGCAGCGGTGGTAACT
 TTGAGACACCTTCAAAAAGAGCACCTGCAAAGGGAAGAGCAGGAAGGTCAAAGAGAAGCAGAGCAAGATCA
 CTATGAGACAGACTACACAACCTGGCGGAGTCTGTGATGAGCTGGAGGAGGACTGGATCAGGGAATAT
 CCACCTATCACTTCAAGTCAACAAGACAACGTACAAGAGGAATTTTGCACTGGCCTACAGGAATACA
 AGAGCTTACAATCAGAACTTGTGAGATCAATAAAGAACTCTCCCGTTTGGATAAAGAATTGGATGACTA
 TAGAGAAGAAAGTGAAGAGTACATGGCTGCTGCTGATGAATACAATAGACTGAAGCAAGTGAAGGGATCT
 GCAGATTACAAAAGTAAAGAATCATTGCAAGCAGTTAAAGAGCAAATTGTCACACATCAAGAAGATGG
 TTGGAGACTATGATAGACAGAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234348 representing NM_001205254
 Red=Cloning site Green=Tags(s)

MSSRPLESPPYPDEFKPNHYAPSNDIYGGEMHVRPMLSQPAYSFYPEDEILHFYKWTSPPGVIRILSM
 LIIVMCIAIFACVASTLAWDRGYGTSLLGGVGYPYGSGFSGYSGYGYGYGYGGYDPRAAKGF
 MLAMAFCFIAALVIFVTSVIRSEMSRTRRYLSVIIIVSAILGIMVFIATIVYIMGVNPTAQSSGSLYGS
 QIYALCNQFYTPAATGLYVDQYSYHYCVDPQEAIAIVLGMIIIVAFALIIFFAVKTRRKMDRYDKSNIL
 WDKEHIYDEQPPNVEEWKNSAGTQDVPSPSDYVERVDSMAYSSNGKVNDKRFYPESSYKSTPVEV
 VQELPLTSPVDDFRQPRYSNGNFETPSKRPAKGRAGRSKRTEQDHYETDYTTGGESCELEEDWIREY
 PPITSDQQRQLYKRNFDGLQEYKSLQSELDEINKELSRDKELDDYREESEEYMAAADEYNRLKQVKGS
 ADYKSKKNHCKQLKSKLSHIKKMVG DYDRQKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6231_f03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001205254

ORF Size: 1566 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_001205254.1](#), [NP_001192183.1](#)

RefSeq Size: 6221 bp

RefSeq ORF: 1569 bp

Locus ID: 100506658

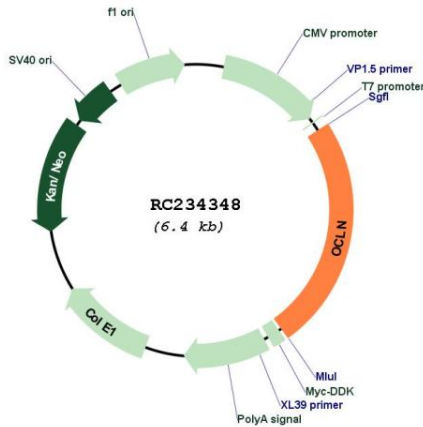
UniProt ID: [Q16625](#)

Cytogenetics: 5q13.2

MW: 59.1 kDa

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 RC234348