

Product datasheet for **RG234348**

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:	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:

>RG234348 representing NM_001205254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCCAGGCTCTTGAAGTCCACCTCCTTACAGGCTGATGAATCAAACCGAATCATTATGCAC
 CAAGCAATGACATATATGGTGGAGAGATGCATGTTGACCAATGCTCTCTCAGCCAGCCTACTCTTTT
 CCCAGAAGATGAAATTCTTCACTTCTACAAATGGACCTCTCTCCAGGAGTGATTCGGATCCTGTCTATG
 CTCATTATTGTGATGTGCATTGCCATCTTTCCTGTGTGGCTCCACGCTTGCCTGGGACAGAGGCTATG
 GAACCTCCCTTTAGGAGGTAGTGTAGGCTACCCTTATGGAGGAAGTGGCTTTGGTAGCTACGGAAGTGG
 CTATGGCTATGGCTATGGTTATGGCTATGGCTACGGAGGCTATACAGACCAAGAGCAGCAAAGGGCTTC
 ATGTTGGCCATGGCTGCCTTTTGTTCATTGCCGCTTGGTATCTTTGTTACCAGTGTATAAGATCTG
 AAATGTCCAGAACAAGAAGATACTACTTAAGTGTGATAATAGTGAGTGCATCCTGGGCATCATGGTGT
 TATTGCCACAATTGTCTATATAATGGGAGTGAACCAACTGCTCAGTCTTCTGGATCTCTATATGGTTCA
 CAAATATATGCCCTCTGCAACCAATTTTATACCTTGCAGCTACTGGACTCTACGTGGATCAGTATTTGT
 ATCACTACTGTGTGTGGATCCCGAGGAGCCATTGCCATTGACTGGGGTTCATGATTATTGTGGCTTT
 TGCTTTAATAATTTCTTTGCTGTGAAAACCTCGAAGAAAGATGGACAGGTATGACAAGTCCAATATTTTG
 TGGGACAAGGAACACATTTATGATGAGCAGCCCCCAATGTGCGAGGAGTGGGTTAAAAATGTGTCTGCAG
 GCACACAGGACGTGCCTTACCCCCATCTGACTATGTGAAAGAGTTGACAGTCCCATGGCATACTTTC
 CAATGGCAAAGTGAATGACAAGCGGTTTTATCCAGAGTCTTCTATAAATCCACGCCGTTCTCTGAAGTG
 GTTCAGGAGCTTCCATTAACCTTCGCTGTGGATGACTTCAGGCAGCCTCGTTACAGCAGCGGTGGTAACT
 TTGAGACACCTTCAAAAAGAGCACCTGCAAAGGGAAGAGCAGGAAGGTTCAAAGAGAACAGAGCAAGATCA
 CTATGAGACAGACTACACAACCTGGCGGCGAGTCTGTGATGAGCTGGAGGAGGACTGGATCAGGGAATAT
 CCACCTATCACTTCAAGTCAACAAGACAACGTACAAGAGGAATTTTGACACTGGCCTACAGGAATACA
 AGAGCTTACAATCAGAACTTGTGAGATCAATAAAGAACTCTCCCGTTTGGATAAAGAATTGGATGACTA
 TAGAGAAGAAAGTGAAGAGTACATGGCTGCTGCTGATGAATACAATAGACTGAAGCAAGTGAAGGGATCT
 GCAGATTACAAAAGTAAAGAATCATTGCAAGCAGTTAAAGAGCAAATTGTCACACATCAAGAAGATGG
 TTGGAGACTATGATAGACAGAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234348 representing NM_001205254
 Red=Cloning site Green=Tags(s)

MSSRPLESPPPYRPFDEFKPNHYAPSNDIYGGEMHVRPMLSQPAYSFYPEDEILHFYKWTSPPGVIRILSM
 LIIVMCI AIFACVASTLAWDRGYGTSLLGGVGYPYGSGFGSYGSGYGYGYGYGGYTDPRAAKGF
 MLAMAFCFIAALVIFVTSVIRSEMSRTRRYLSVIIIVSAILGIMVFIATIVYIMGVNPTAQSSGLYGS
 QIYALCNQFYTPAATGLYVDQYLHYCVVDPQEAIAIVLGFMIIVAFALIIFFAVKTRRKMDRYDKSNIL
 WDKEHIYDEQPPNVEEWKNSAGTQDVPSPSDYVERVDSPMAYSSNGKVNDKRFYPESYKSTPVPEV
 VQELPLTSPVDDFRQPRYSGGNFETPSKRPAKGRAGRSKRTEQDHYETDYTTGGESCELEEDWIREFY
 PPITSDQQRQLYKRNFDGLQEYKSLQSELDEINKELSRDKELDDYREESEEYMAAADEYNRLKQVKGS
 ADYKSKKNHCKQLKSKLSHIKKMVGDRQKT

TRTRPLE - GFP Tag - V

Restriction Sites:

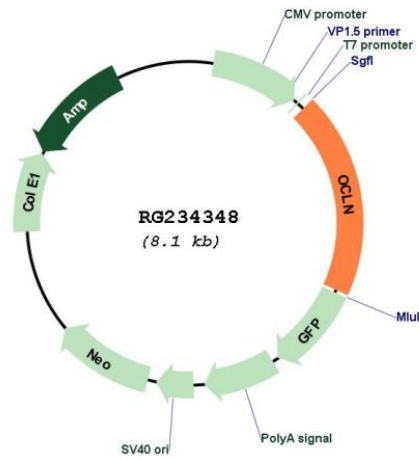
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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_001205254.2
RefSeq Size:	6221 bp
RefSeq ORF:	1569 bp
Locus ID:	100506658
UniProt ID:	Q16625
Cytogenetics:	5q13.2
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]