

Product datasheet for **RC232345**

Occludin (OCLN) (NM_001205255) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Occludin (OCLN) (NM_001205255) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OCLN
Synonyms:	BLCPMG; PPP1R115; PTORCH1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232345 representing NM_001205255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATTATTGGGCTTTTGCTTTAATAATTTTCTTTGCTGTGAAAACCGAAGAAAGATGGACAGGTATG
ACAAGTCCAATATTTTGTGGGACAAGGAACACATTTATGATGAGCAGCCCCCAATGTCGAGGAGTGGGT
TAAAAATGTGTCTGCAGGCACACAGGACGTGCCTTCAACCCCATCTGACTATGTGAAAGAGTTGACAGT
CCCATGGCATACTCTTCCAATGGCAAAGTGAATGACAAGCGGTTTTATCCAGAGTCTTCTATAAATCCA
CGCCGGTTCCTGAAGTGTTTCAGGAGCTTCCATTAACCTTCGCTGTGGATGACTTCAGGCAGCCTCGTTA
CAGCAGCGGTGGTAACCTTTGAGACACCTTCAAAAAGAGCACCTGCAAAGGGAAGAGCAGGAAGGTCAAAG
AGAACAGAGCAAGATCACTATGAGACAGACTACACAACCTGGCGGCGAGTCTGTGATGAGCTGGAGGAGG
ACTGGATCAGGGAATATCCACCTATCACTTCAGATCAACAAGACAACGTACAAGAGGAATTTTGACAC
TGGCCTACAGGAATACAAGAGCTTACAATCAGAACCTTGATGAGATCAATAAAGAAGTCTCCCGTTTGGAT
AAAGAATTGGATGACTATAGAGAAGAAAGTGAAGAGTACATGGCTGCTGCTGATGAATACAATAGACTGA
AGCAAGTGAAGGGATCTGCAGATTACAAAAGTAAGAAGAATCATTGCAAGCAGTTAAAGAGCAAATTTGTC
ACACATCAAGAAGATGGTTGGAGACTATGATAGACAGAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232345 representing NM_001205255
Red=Cloning site Green=Tags(s)

MIIVAFALIIFFAVKTRRKMDRYDKSNILWDKEHIYDEQPPNVEEWKNSAGTQDVPSPPSDYVERVDS
 PMAYSSNGKVNDKRFYPESYKSTPVPEVVQELPLTSPVDDFRQPRYSGGNFETPSKRAPAKGRAGRSK
 RTEQDHYETDYTTGGESCDLEEDWIREYPPITSDQQRQLYKRNFDGLQEYKSLQSELDEINKELSRLD
 KELDDYREESEEYMAAADEYNRLKQVKGSADYKSKKNHCKQLKSKLSHIKKMVG DYDRQKT

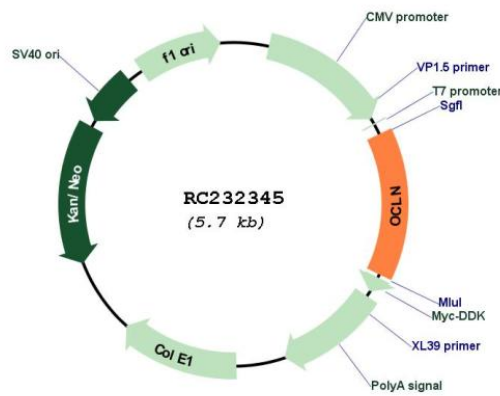
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001205255

ORF Size: 813 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_001205255.1 , NP_001192184.1
RefSeq Size:	5404 bp
RefSeq ORF:	816 bp
Locus ID:	100506658
UniProt ID:	Q16625
Cytogenetics:	5q13.2
MW:	32.1 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]