

Product datasheet for **RG212254**

OPCML (NM_001012393) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OPCML (NM_001012393) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OPCML
Synonyms:	IGLON1; OBCAM; OPCM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212254 representing NM_001012393 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCATCCTGCCTACTGGGTCGTCTTCTCGGCGACAACCTGCCCTGCTCTTCATCCCAGGAGTGCCCG
TGCGCAGCGGAGATGCCACCTTCCCAAAGCTATGGACAACGTGACGGTCCGGCAGGGGAGAGCGCCAC
CCTCAGGTGTACCATAGATGACCGGTAACCCGGTGGCCTGGCTAAACCGCAGCACCATCTCTACGCT
GGGAATGACAAGTGGTCCATAGACCCTCGTGTGATCATCCTGGTCAATACCAACCCAGTACAGCATCA
TGATCCAAAATGTGGATGTGTATGACGAAGTCCGTACACCTGCTCTGTGCAGACAGACAATCATCCAA
AACGTCCCGGTTACCTAATAGTGCAAGTTCCCTCAGATCATGAATATCTCCTCAGACATCACTGTG
AATGAGGGAAGCAGTGTGACCCTGCTGTGCTTGTCTATTGGCAGACCAGGCCAACTGTGACATGGAGAC
ACCTGTCAGTCAAGGAAGGCCAGGGCTTGTAAAGTGAGGATGAGTACCTGGAGATCTCTGACATCAAGCG
AGACCAGTCCGGGGAGTACGAATGCAGCGGTTGAACGATGTCGCTGCGCCCGATGTGCGGAAAAGTAAAA
ATCACTGTAAACTATCCTCCCTATATCTCAAAGCCAAGAACAACCTGGTGTTCAGTCGGTCAAGAGGCA
TCCTGAGCTGTGAAGCCTCTGCAGTCCCATGGCTGAATCCAGTGGTTCAAGGAAGAAACCAGGTTAGC
CACTGGTCTGGATGGAATGAGGATTGAAAACAAAGGCCGATGTCCACTCTGACTTCTTCAATGTTTCA
GAAAAGGATTATGGAACTATACTTGTGTGGCCACGAACAAGCTTGGGAACACCAATGCCAGCATCACAT
TGTATGGCCTGGAGCAGTCATTGATGGTGTAAACTCGGCCTCCAGAGCACTGGCTTGTCTCTGGCTATC
AGGACCCTCTTAGCCCACTTCTTCATCAAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212254 representing NM_001012393
 Red=Cloning site Green=Tags(s)

MYHPAYWVVSATTALLFIPGVPVRSGDATFPKAMDNVTVRQGESATLRCTIDDRVTRVAVLNRSTILYA
 GNDKWSIDPRVILVNTPTQYSIMIQNVVDVYDEGPYTCVQTDNHPKTSRVHLIVQVPPQIMNISSDITV
 NEGSSVTLCLAIGRPEPTVTRHLSVKEGQGFVSEDEYLEISDIKRDQSGEYECALNDVAAPDVRKVK
 ITVNYPPYISKAKNTGVSVGQKILSCEASAVPMAEFQWFKEETRLATGLDGMRIENKGRMSTLTFFNVS
 EKDYGNVTCVATNKLGNNASITLYGPGAVIDGVNSASRALACLWLSGTL LAHFFIKF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012393

ORF Size: 1014 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_001012393.3](#)

RefSeq Size: 6413 bp

RefSeq ORF: 1017 bp

Locus ID: 4978

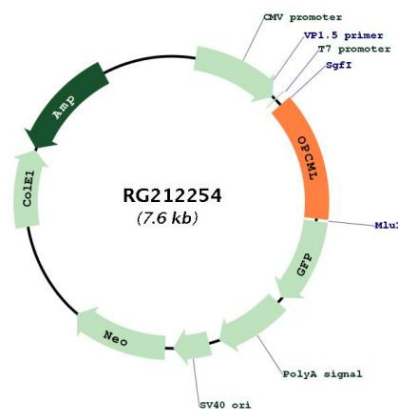
UniProt ID: [Q14982](#)

Cytogenetics: 11q25

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the IgLON subfamily in the immunoglobulin protein superfamily of proteins. The encoded preprotein is proteolytically processed to generate the mature protein. This protein is localized in the plasma membrane and may have an accessory role in opioid receptor function. This gene has an ortholog in rat and bovine. The opioid binding-cell adhesion molecule encoded by the rat gene binds opioid alkaloids in the presence of acidic lipids, exhibits selectivity for mu ligands and acts as a GPI-anchored protein. Since the encoded protein is highly conserved in species during evolution, it may have a fundamental role in mammalian systems. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG212254