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Product datasheet for SC301639

OPCML (NM_001012393) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OPCML (NM_001012393) Human Untagged Clone
Tag:	Tag Free
Symbol:	OPCML
Synonyms:	IGLON1; OBCAM; OPCM
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001012393 edited ATGTACCATCCTGCCTACTGGGTCGTCTTCTCGGCGACAACTGCCCTGCTCTTCATCCCA GGAGTGCCCGTGCGCAGCGGAGATGCCACCTTCCCCAAAGCTATGGACAACGTGACGGTC CGGCAGGGGGAGAGCGCCACCCTCAGGTGTACCATAGATGACCGGGTAACCCGGGTGGCC TGGCTAAACCGCAGCACCATCCTCTACGCTGGGAATGACAAGTGGTCCATAGACCCTCGT GTGATCATCCTGGTCAATACACCAACCCAGTACAGCATCATGATCCAAAATGTGGATGTG TATGACGAAGGTCCGTACACCTGCTCTGTGCAGACAGACAATCATCCCAAAACGTCCCGG GTTCACCTAATAGTGCAAGTTCCTCCTCAGATCATGAATATCTCCTCAGACATCACTGTG AATGAGGGAAGCAGTGTGACCCTGCTGTGTCTTGCTATTGGCAGACCAGAGCCAACTGTG ACATGGAGACACCTGTCAGTCAAGGAAGGCCAGGGCTTTGTAAGTGAGGATGAGTACCTG GAGATCTCTGACATCAAGCGAGACCAGTCCGGGGAGTACGAATGCAGCGCGTTGAACGAT GTCGCTGCGCCCGATGTGCGGAAAGTAAAAATCACTGTAAACTATCCTCCCTATATCTCA AAAGCCAAGAACACTGGTGTTTCAGTCGGTCAGAAGGGCATCCTGAGCTGTGAAGCCTCT GCAGTCCCCATGGCTGAATTCCAGTGGTTCAAGGAAGAAACCAGGTTAGCCACTGGTCTG GATGGAATGAGGATTGAAAACAAAGGCCGCATGTCCACTCTGACTTTCTTCAATGTTTCA GAAAAGGATTATGGGAACTATACTTGTGTGGCCACGAACAAGCTTGGGAACACCAATGCC AGCATCACATTGTATGGGCCTGGAGCAGTCATTGATGGTGTAAACTCGGCCTCCAGAGCA CTGGCTTGTCTCTGGCTATCAGGGACCCTCTTAGCCCACTTCTTCATCAAGTTTTGA

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001012393 unedited
TTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCGGTAGCAGCAGC
AGAAGCAGTAGCAAGCCCGGCAGCTGAGAGCACCGCAGCGTCGAGATGTACCATCCTGCC
TACTGGGTCGTCTTCTCGGCGACAACTGCCCTGCTCTTCATCCCAGGAGTGCCCGTGCGC
AGCGGAGATGCCACCTTCCCCAAAGCTATGGACAACGTGACGGTCCGGCAGGGGGAGAGC
GCCACCCTCAGGTGTACCATAGATGACCGGGTAACCCGGGTGGCCTGGCTAAACCGCAGC
ACCATCCTCTACGCTGGGAATGACAAGTGGTCCATAGACCCTCGTGTGATCATCCTGGTC
AATACACCAACCCAGTACAGCATCATGATCCAAAATGTGGATGTGTATGACGAAGGTCCG
TACACCTGCTCTGTGCAGACAGACAATCATCCCAAAACGTCCCGGGTTCACCTAATAGTG
CAAGTTCCTCCTCAGATCATGAATATCTCCTCAGACATCACTGTGAATGAGGGAAGCAGT
GTGACCCTGCTGTGTCTTGCTATTGGCAGACCAGAGCCAACTGTGACATGGAGACACCTG
TCAGTCAAGGAAGGCCAGGGCTTTGTAAGTGAGGATGAGTACCTGGAGATCTCTGACATC
AAGCGAGACCAGTCCGGGGAGTACGAATGCAGCGCGTTGAACGATGTCGCTGCGCCCGAT
GTGCGGAAAGTAAAAATCACTGTAAACTATCCTNCCTATATCTCAAAGCCAAGAACACTG
GGTGTTNCAGTCGGTCAGAAGGGCTCCTGAGCTGTGAAGCCTCTGCAGTCCCATGGCTGA
ATTCCAGTGGGTCAAGGGAGAAACCAGTAGCCACTGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001012393 unedited
CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCAATGGGGCTCATATTTTTTA
TTTTTTAAACTGAGGGCCTGAAAGGTTTTCCAACTGAGGCAGGGCAGGTCTGCGATTGAT
GCTGCATTCTCATCCTCTCTGTGGATCAGTCCCTGCAGCACACCTGTGCGGTCTGCAATG
CCTTTATTTTGAATCCCAGGCAACTTTGCTGGATGAGTCCTTCTCGTCCCAGGAGACAAG
ACAGCAAAGGTGGCTCAGCTCTTGTTTGTATGCTGGGTCTGCTTTGAACCTGAAAAGCTG
GTGAAGTTCTTCCCCAAAGCCATTGGAGAAGCAGCTGCATCAAAGGAAACTGTGTCACTG
ACACTTTCTCCCTTCTGTTTGCAGTGTTGTGTTAATCAAGTGCTTGAAAATTAAGTCAGT
TGCTCAAGTGCCCTCAGCTTAGAAGAGCTTCCTGAAACAAATACCAGAGTTGTCAATACA
CCCGCCATGTAATTGGCCTCCATCAGCTTTTTACTGGATAGTTTTCAAACAGATTAAACC
AGAACTGGAGCAGAAAGGAGACTCTAGCTGAAGTCATCCCACTCAGGCGGGTGGACTCTT
CACTTTGCATTGCAGAGACAGATGTGTTTTTCTCTCAAGTTCTTGCTGCTAAGGAAAGCC
AGCCATAGGTTCCTGACATGTACTTTCTTGAAGGGTTGAGAGAAGCATAAAGGCTGGGCA
CCTTTGTCCTTNCAGTGCAAAAGGAAACCACAGTGGCTATCAAACTTTTCTAGGCTGATC
TGCTTCCAAGAAAAGTGTTTAAAAACACAGCTCTTCTGGAATATGAGNGACTGACCATAN
CTGGCCTACTTGCCTATCTGGTAAGGCCCCCTTGGGTGGGATAGATACCANATTTTAAAG
AGTCCAACACAGGGATTGCTTTGGGATTTGTAACCGGGGAAAACGTGGCTTTCACGAAGT
G

Restriction Sites: NotI-NotI

ACCN: NM_001012393

Insert Size: 3000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001012393.1, NP_001012393.1
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] Transcript Variant: This variant (2) represents use of an alternate promoter and therefore differs in the 5' UTR and 5' coding region, and lacks an alternate in-frame exon in the 3' coding region compared to variant 3. The encoded isoform (b) is shorter and has a distinct N-terminus compared to isoform c. The encoded isoform (b) may undergo proteolytic processing similar to 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.