OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC304695

OPN1LW (NM_020061) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OPN1LW (NM_020061) Human Untagged Clone
Tag:	Tag Free
Symbol:	OPN1LW
Synonyms:	CBBM; CBP; COD5; RCP; ROP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_020061 edited ATAGCCATGGCCCAGCAGTGGAGCCTCCAAAGGCTCGCAGGCCGCCATCCGCAGGACAGC TATGAGGACAGCACCCAGTCCAGCATCTTCACCTACACCAACAGCAACTCCACCAGAGGC CCCTTCGAAGGCCCGAATTACCACATCGCTCCCAGATGGGTGTACCACCTCACCAGTGTC TGGATGATCTTTGTGGTCACTGCATCCGTCTTCACAAATGGGCTTGTGCTGGCGGCCACC ATGAAGTTCAAGAAGCTGCGCCACCCGCTGAACTGGATCCTGGTGAACCTGGCGGTCGCT GACCTAGCAGAGACCGTCATCGCCAGCACTATCAGCATTGTGAACCAGGTCTCTGGCTAC TTCGTGCTGGGCCACCCTATGTGTGTCCTGGAGGGCTACACCGTCTCCCTGTGTGGGATC ACAGGTCTCTGGTCTCTGGCCATCATTTCCTGGGAGAGGTGGCTGGTGGTGTGCAAGCCC TTTGGCAATGTGAGATTTGATGCCAAGCTGGCCATCGTGGGCATTGCCTTCTCCTGGATC TGGTCTGCTGTGTGGACAGCCCCGCCCATCTTTGGTTGGAGCAGGTACTGGCCCCACGGC CTGAAGACTTCATGCGGCCCAGACGTGTTCAGCGGCAGCTCGTACCCCGGGGTGCAGTCT TACATGATTGTCCTCATGGTCACCTGCTGCATCATCCCACTCGCTATCATCATGCTCTGC TACCTCCAAGTGTGGCTGGCCATCCGAGCGGTGGCAAAGCAGCAGAAAGAGTCTGAATCC ACCCAGAAGGCAGAGAAGGAAGTGACGCGCATGGTGGTGGTGATGATCTTTGCGTACTGC GTCTGCTGGGGACCCTACACCTTCTTCGCATGCTTTGCTGCTGCCAACCCTGGTTACGCC TTCCACCCTTTGATGGCTGCCCTGCCGGCCTACTTTGCCAAAAGTGCCACTATCTACAAC CCCGTTATCTATGTCTTTATGAACCGGCAGTTTCGAAACTGCATCTTGCAGCTTTTCGGG AAGAAGGTTGACGATGGCTCTGAACTCTCCAGCGCCTCCAAAACGGAGGTCTCATCTGTG TCCTCGGTATCGCCTGCATGA
Restriction Sites:	Please inquire
ACCN:	NM_020061
Insert Size:	1100 bp

View online »

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_020061.2.

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_020061.2, NP_064445.1

RefSeq Size: 1356 bp

RefSeq ORF: 1095 bp

Locus ID: 5956

Cytogenetics: Xq28

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called red cone photopigment or long-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. This gene and the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of partial, protanopic colorblindness. [provided by RefSeq, Jul 2008]