

Product datasheet for **SC119005**

CHML (NM_001821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHML (NM_001821) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHML
Synonyms:	REP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119005 sequence for NM_001821 edited (data generated by NextGen Sequencing)

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ATGGCGGACAATCTTCCCACAGAGTTTGATGTGGTTATAATAGGGACAGGTTTGCCCGAA
TCCATCCTTGCAGCTGCATGTTCAAGAAGTGGTCAGAGGGTTCTGCATATTGATTCAAGA
AGCTACTATGGAGGAACTGGGCTAGTTTCAGCTTTTCAGGATTGCTATCCTGGTTGAAG
GAGTATCAGCAAAACAATGACATTGGGGAAGAAAGTACTGTTGTATGGCAGGACCTGATC
CATGAAACAGAAAGCCATCACTCTTCGCAAGAAGGATGAAACTATTCAACACACAGAA
GCTTTTTGCTACGCCAGTCAGGATATGGAGGACAACGTTGAAGAGATTGGTGCTCTGCAG
AAAAATCCTTCTTTGGGGGTGTCTAATACCTTCACTGAAGTTCTGGATTCTGCATTACCT
GAAGAAAGCCAGTTATCGTATTTAATAGCGACGAAATGCCTGCAAAACACACTCAGAAA
AGTGATACAGAGATTTCACTAGAAGTAACTGATGTAGAGGAATCAGTGGAGAAGGAAAAG
TATTGTGGAGATAAACTTGTATGCACACAGTTTCAGATAAAGATGGAGATAAAGATGAA
AGCAAATCTACAGTAGAAGATAAGGCCGATGAACCAATTAGAAAATAGGATTACTTACTCT
CAAATAGTTAAAGAAGGCAGGAGGTTTAAATATTGATTTGGTGCAAAACTGCTGTATTCT
CAAGGATTGCTAATTGATCTTTTAAATCAATCAGATGTTAGTCGTTATGTAGAATTTAAA
AATGTCACTAGGATTCTTGCATTTCCGGGAAGGAAAGGTAGAACAAGTTCCTTGTCCAGA
GCAGATGTCTTTAATAGCAAGGAACTCACCATGGTTGAAAAGAGGATGCTAATGAAATTT
CTCACATTTTGTTTAGAGTATGAACAACATCCTGATGAATACCAAGCTTTCAGGCAGTGT
TCATTTTCAGAATACTTAAAAACTAAAAAACTAACTCCCAACCTTCAACATTTTGTACTG
CACTCAATTGCAATGACATCAGAATCATCTTGCCTACAATAGATGGTCTTAACGCAACT
AAAACTTCCTTCAGTGTCTCGGACGGTTTGGCAACACCCCTTTTATTTCCCTTGTAT
GGCCAAGGAGAAATCCCAGGGTTTCTGTAGGATGTGTGCAGTTTTTGGTGAATCTAT
TGTCTTCGTCATAAAGTACAATGCTTTGTAGTCGACAAAGAATCTGGACGATGTAAGCA
ATTATAGATCACTTTGGTCAAAGAATAAATGCTAAATATTTTATTGTGGAAGACAGTTAC
CTTCTGAGGAAACATGCTCAAATGTGCAGTATAAGCAGATCTCTAGGGCAGTACTCATT
ACAGATCAGTCTATACTAAAGACAGATTTAGATCAGCAGACTTCCATTCTGATAGTTCTT
CCAGCAGAGCCAGGAGCTTGTGCTGTACGGGTCACAGAATTATGTTCTTCAACCATGACA
TGCATGAAGGACACCTATCTGGTACATTTGACATGTTTCTTCTAAAACAGCAAGAGAA
GACTTAGAATCAGTGGTGAAGAAATTATCACTCCGTACTGAAACAGAAATAAACGAG
GAAGAATTACAAAGCCAAGACTCTTGTGGCTCTTTATTTTAAATATGAGAGATTCCTCG
GGAATCAGCAGAAGCTCGTATAATGGCTTGCCTTCCAATGTTTATGTCTGCTCTGGGCT
GACTGTGGCTGGGAAATGAGCATGCTGTCAAGCAAGCTGAAACACTTTTCCAGGAGATC
TTTCCAATGAAGAAATCTGCCCTCCACCTCCAAATCCAGAAGACATTATCTTTGATGGT
GATGATAAGCAGCCAGAGGCTCCTGGAACCAATAATGTAGTAATGGCCAAACTAGAATCC
TCTGAGGAAAGCAAAAACCTAGAAAGCCAGAGAAGCACCTTCAAATTAG
```

Clone variation with respect to NM_001821.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001821 unedited
 AGCATTTTGTAAACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGGGCGCTGCTG
 CTGGGCTCCATTGGGCTGCTGGGCGTCGGCAACAACCTGCTGGTCTCGTCTCTACTAC
 AAGTTCAGCGGCTCCGCACTCCCACTCACCTCCTCTGGTCAACATCAGCCTCAGCGAC
 CTGCTGGTGTCCCTCTTCGGGGTCACTTTACCTTCGTGCCTGCCTGAGGAACGGCTGG
 GTGTGGACACCGTGGGCTGCGTGTGGACGGGTTAGCGGCAGCCTCTTCGCAGTTGTC
 ACCAGACGCTGTTACTTCTAAAATGGCGGACAATCTTCCACAGAGTTTGATGTGGTTA
 TAATAGGGACAGGTTTGCCCGAATCCATCCTTGCAGCTGCATGTTCAAGAAGTGGTCAGA
 GGGTTCTGCATATTGATTCAAGAAGCTACTATGGAGGAACTGGGCTAGTTTCAGCTTTT
 CAGGATTGCTATCCTGGTTGAAGGAGTATCAGCAAAACAATGACATTGGGGAAGAAAGTA
 CTGTTGTATGGCAGGACCTGATCCATGAAACAGAAGAAGCCATCACTCTTCGCAAGAAGG
 ATGAAACTATTCAACACACAGAAGCTTTTTGCTACGCCAGTCAGGATATGGAGGACAACG
 TTGAAGAGATTGGTGTCTGCAGAAAAATCCTTCTTTGGGGGTGCTAATACCTTCACTG
 AAGTTCGGATTCTGCATTACCTGAAGAAAGCCAGTTATCGATTTTTAATAGCGACGAAA
 TGCTGCANAACACACTCAGAAAAGTGATACAGNNAGATTCACTAGAGTAACTGATGTAG
 AGGAATCAGTGGAGAAGGGGAAAGTATGTGGAGATAAAAAGTGTATGCACACAGTNTCAG
 ATAAGATGGAGATAAGATGAAGCAATCTACGTAGAAGATAGGCCGATGAACCATAGAAAT
 AGATACTACTCTCAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001821 unedited
 TCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAACGATTATAGACAATGTATTTTATTAT
 CATATTGGCATTGTATTAGTTGCTATTCTACCACCATGTCTATACATTTATATTATAT
 GCAAAAGATCCACATAATTTACCATTTGTGTATGTTTCACTATTGCAACAGGCCGAGCA
 ACTGTAACAGCTCAAAAAGTAATTTAAAATATTACTTGGGTATTACTAATTGTTCTGTAGA
 CAAAGATAAAATCTGAAGATCATTAGCAAATACATTACCTTTAAGCTGAGTTGCTAATAT
 GGAACCTTACATATATACCCAATACTAAAATAAAGCTAACTCTGTTCTAAGATTCTGGG
 TCATATAGCCCATTTCTAAACAAAACGTTCAATACTCAATAAATCACTCATTGATAGGTT
 AACAAAGATATTCAATGCCTGAATGTGTGAGAGTTAAAGACACCATTCTGCATAGCATCC
 ATCATATATAACCCACTTCTAATTTACTGATATGGGAAAACCGTCCTTTAAAATGAGAAA
 TCGTGATGCCATGGAAGAGGTCCAAACAGTATCTGCAGATTGCTCTTTGTTATTTTGAAG
 GTGCTTCTCTGGATTTACTAGCATTTTGTATCTCGAAGGATTCAACTTGGACATTACT
 ACATTTATGGCTCCCAGCACCTCTGCCGTTATCTTCCATACAACATATGCCCTCGGA
 TTTGCGAGCGGAGGAAAACATTTAACTGCAAAGACTTCTGCAAATGGCATAATTTGTTG
 CCATCGCCCTTTTTCAGCCCTCCGCCTTACCTTATACCCTTGAAGGGCACTCTTTCAC
 CTTTGGGTCCCCGGGATTTCTTCTACAATACCCCAAATCCGGTCTGAAAAATCCCGA
 TTTTTCGCCGCATCGCGGAATCTCTCCCCCGCCTAACATTCTTTGTTTAAACAAAATC
 CCTGCCACGTCTCTC

Restriction Sites:

NotI-NotI

ACCN:

NM_001821

Insert Size:

2820 bp

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](#)

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_001821.2](#), [NP_001812.2](#)

RefSeq Size: 7070 bp

RefSeq ORF: 1971 bp

Locus ID: 1122

UniProt ID: [P26374](#)

Cytogenetics: 1q43

Domains: GDI

Gene Summary: The product of the CHML gene supports geranylgeranylation of most Rab proteins and may substitute for REP-1 in tissues other than retina. CHML is localized close to the gene for Usher syndrome type II. [provided by RefSeq, Jul 2008]