

## Product datasheet for **RC218675**

### CHML (NM\_001821) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHML (NM_001821) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHML
Synonyms:	REP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC218675 representing NM\_001821  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACAATCTTCCACAGAGTTTGATGTGGTTATAATAGGGACAGGTTTGCCGAATCCATCCTTG  
 CAGCTGCATGTTCAAGAAGTGGTCAGAGGGTTCGCATATTGATTCAAGAAGCTACTATGGAGGAACTG  
 GGCTAGTTTCAGCTTTTCAGGATTGCTATCCTGGTTGAAGGAGTATCAGCAAAACAAATGACATTGGGAA  
 GAAAGTACTGTTGTATGGCAGGACCTGATCCATGAAACAGAAGAAGCCATCACTCTTCGCAAGAAGGATG  
 AAATAATCAACACACAGAAGCTTTTTGCTACGCCAGTCAGGATATGGAGGACAACGTTGAAGAGATTGG  
 TGCTCTGCAGAAAAATCCTTCTTTGGGGGTGTCTAATACCTTCACTGAAGTTCTGGATTCTGCATTACCT  
 GAAGAAAGCCAGTTATCGTATTTAATAGCGACGAAATGCCTGCAAAACACACTCAGAAAAGTGATACAG  
 AGATTTCACTAGAAGTAAGTATGATAGAGGAATCAGTGGAGAAGGAAAAGTATTGTGGAGATAAACTTG  
 TATGCACACAGTTTCAGATAAAGATGGAGATAAAGATGAAAGCAAATCTACAGTAGAAGATAAGGCCGAT  
 GAACCAATTAGAAATAGGATTACTTACTCTCAAATAGTTAAAGAAGGCAGGAGGTTAATATTGATTGG  
 TGTCAAAACCTGCTGATTCTCAAGGATTGCTAATTGATCTTTAATCAAATCAGATGTTAGTCGTTATGT  
 AGAATTTAAAAATGCTACTAGGATTCTTGCAATTCGGGAAGGAAAAGGTAGAACAAAGTTTCTTGTCCAGA  
 GCAGATGTCTTTAATAGCAAGGAACTCACCATGGTTGAAAAGAGGATGCTAATGAAATTTCTCACATTTT  
 GTTTAGAGTATGAACAACATCCTGATGAATACCAAGCTTTCAGGCAGTGTTCATTTTCAGAATACTTAAA  
 AACTAAAAACTAACTCCCAACCTTCAACATTTTGTACTGCACCAATTGCAATGACATCAGAATCATCT  
 TGCCTACAATAGATGGTCTTAACGCAACTAAAAACTTCTTTCAGTGTCTCGGACGGTTTGGCAACACCC  
 CCTTTTTATTTCCCTTGTATGGCCAAGGAGAAAATTTCCAGGGTTTCTGTAGGATGTGTGCAGTTTTTGG  
 TGGAACTATTGTCTTCGTCATAAAGTACAATGCTTTGTAGTCGACAAAGAATCTGGACGATGTAAGCA  
 ATTATAGATCACTTTGGTCAAAGAATAAATGCTAATATTTTATTGTGGAAGACAGTTACCTTTCTGAGG  
 AACATGCTCAAATGTGCAGTATAAGCAGATCTTAGGGCAGTACTCATTACAGATCAGTCTATACTAAA  
 GACAGATTTAGATCAGCAGACTTCCATTCTGATAGTTCTCCAGCAGAGCCAGGAGCTTGTGCTGTACGG  
 GTCACAGAATTATGTTCTTCAACCATGACATGCATGAAGGACACCTATCTGGTACATTTGACATGTTTAT  
 CTTCTAAAACAGCAAGAGAAGACTTAGAATCAGTGGTGAAGAAATTATCACTCCGTATACTGAAACAGA  
 AATAAACGAGGAAGAAGTACAAAGCCAAGACTCTTGTGGCTCTTTATTTAATATGAGAGATTCCTCG  
 GGAAATCAGCAGAAGCTCGTATAATGGCTTGCCCTCCAATGTTTATGTCTGCTCTGGCCTGACTGTGGCC  
 TGGGAAATGAGCATGCTGTCAAGCAAGCTGAAACACTTTTCCAGGAGATCTTCCAAGTGAAGAAATCTG  
 CCCTCCACCTCCAATCCAGAAGACATTATCTTTGATGGTGTGATAAGCAGCCAGAGGCTCCTGGAACC  
 AATAATGTAGTAATGGCCAAACTAGAATCCTCTGAGGAAAGCAAAAACCTAGAAAGCCAGAGAAGCACC  
 TTCAAAAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC218675 representing NM\_001821  
Red=Cloning site Green=Tags(s)

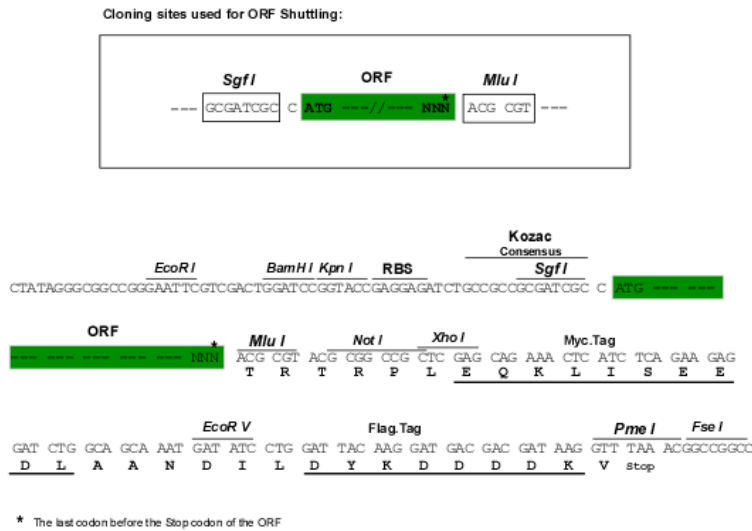
MADNLPTEFDVVIIGTGLPESILAAACSRSGQRVLHIDSRSYGGNWFSSFGLLSWLKEYQQNNDIGE  
 ESTVWVQDLIHETEEAITLRKKDETIQHTEAFQYASQDMEDNVEEIGALQKNPSLGVSNFTFVLDLSDALP  
 EESQLSYFNSEMPAKHTQKSDTEISLEVTDVVEESVEKEKYCGDKTCMHTVSDKDGDKDESKSTVEDKAD  
 EPIRNRITYSQIVKEGRRFNIDLVSKLLYSQGLLIDLLIKSDVSRVVEFKNVTRILAFREGKVEQVPCSR  
 ADVFNSKELTMVEKRMLMKFLTFCLEYEQHPDEYQAFRQCSFSEYLKTKKLT PNLQHFVLHSIAMTSESS  
 CTTIDGLNATKNFLQCLGRFGNTPFLFPLYGQGEIPQGFRCMCAVFGGIYCLRHKQVQCFVVDKESGRCKA  
 IIDHFGQRINAKYFIVEDSYLSEETCSNVQYKQISR AVLITDQSILKTDLDQQTSILIVPPAEPGACAVR  
 VTELCSSMTCKD TYL VHLTCSSSKTAREDES SVVKKLFTPYTETEINEEELTKPRLLWALYFNMRDSS  
 GISRSSYNGLPSNVVCSGPD CGLGNEHAVKQAETLFQEIFPTEEF C P P P P N P E D I I F D G D D K Q P E A P G T  
 NNVVMAKLESSEESKNLESPEKHLQN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8115\\_h10.zip](https://cdn.origene.com/chromatograms/mk8115_h10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

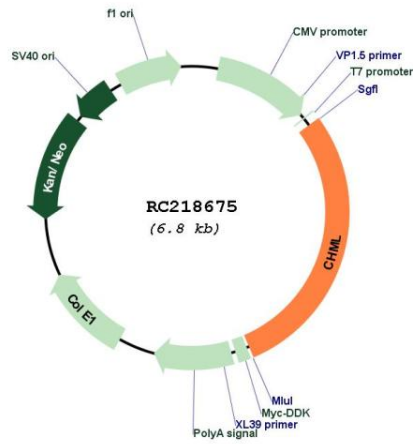


**ACCN:** NM\_001821

**ORF Size:** 1968 bp

<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001821.4</a>
<b>RefSeq Size:</b>	7082 bp
<b>RefSeq ORF:</b>	1971 bp
<b>Locus ID:</b>	1122
<b>UniProt ID:</b>	<a href="#">P26374</a>
<b>Cytogenetics:</b>	1q43
<b>Domains:</b>	GDI
<b>MW:</b>	74.1 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC218675