

Product datasheet for **RG218675**

CHML (NM_001821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHML (NM_001821) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHML
Synonyms:	REP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218675 representing NM_001821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGACAATCTTCCACAGAGTTTGTATGTGGTTATAATAGGGACAGTTTGCCCGAATCCATCCTTG
 CAGCTGCATGTTCAAGAAGTGGTCAGAGGGTTCGCATATTGATTCAGAAGCTACTATGGAGGAACTG
 GGCTAGTTTCAGCTTTTCAGGATTGCTATCCTGGTTGAAGGAGTATCAGCAAAACAATGACATTGGGAA
 GAAAGTACTGTTGTATGGCAGGACCTGATCCATGAAACAGAAGAAGCCATCACTCTTCGCAAGAAGGATG
 AAATAATCAACACACAGAAGCTTTTTGCTACGCCAGTCAGGATATGGAGGACAACGTTGAAGAGATTGG
 TGCTCTGCAGAAAAATCCTTCTTTGGGGGTGTCTAATACCTTCACTGAAGTTCTGGATTCTGCATTACCT
 GAAGAAAGCCAGTTATCGTATTTAATAGCGACGAAATGCCTGCAAAACACACTCAGAAAAGTGATACAG
 AGATTTCACTAGAAGTAAGTATGATAGAGGAATCAGTGGAGAAGGAAAAGTATTGTGGAGATAAACTTG
 TATGCACACAGTTTCAGATAAAGATGGAGATAAAGATGAAAGCAAATCTACAGTAGAAGATAAGGCCGAT
 GAACCAATTAGAAATAGGATTACTTACTCTCAAATAGTTAAAGAAGGCAGGAGGTTAATATTGATTGG
 TGTCAAAACCTGCTGATTCTCAAGGATTGCTAATTGATCTTTAATCAAATCAGATGTTAGTCGTTATGT
 AGAATTTAAAAATGCTACTAGGATTCTTGCAATTCGGGAAGGAAAAGGTAGAACAAAGTTTCTTGTCCAGA
 GCAGATGCTTTAATAGCAAGGAACTCACCATGGTTGAAAAGAGGATGCTAATGAAATTTCTCACATTTT
 GTTTAGAGTATGAACAACATCCTGATGAATACCAAGCTTTCAGGCAGTGTTCATTTTCAGAATACTTAAA
 AACTAAAAACTAACTCCCAACCTTCAACATTTTGTACTGCACCAATTGCAATGACATCAGAATCATCT
 TGCCTACAATAGATGGTCTTAACGCACTAAAACTTCTTTCAGTGTCTCGGACGGTTTGGCAACACCC
 CCTTTTTATTTCCCTTGTATGGCCAAGGAGAAAATTTCCAGGGTTTCTGTAGGATGTGTGCAGTTTTTGG
 TGGAACTATTGTCTTCGTCATAAAGTACAATGCTTTGTAGTCGACAAAGAATCTGGACGATGTAAGCA
 ATTATAGATCACTTTGGTCAAAGAATAAATGCTAATATTTTATTGTGGAAGACAGTTACCTTTCTGAGG
 AAACATGCTCAAATGTGCAGTATAAGCAGATCTTAGGGCAGTACTCATTACAGATCAGTCTATACTAAA
 GACAGATTTAGATCAGCAGACTTCCATTCTGATAGTTCTCCAGCAGAGCCAGGAGCTTGTGCTGTACGG
 GTCACAGAATTATGTTCTTCAACCATGACATGCATGAAGGACACCTATCTGGTACATTTGACATGTTTAT
 CTTCTAAAACAGCAAGAGAAGACTTAGAATCAGTGGTGAAGAAATTATCACTCCGTATACTGAAACAGA
 AATAAACGAGGAAGAAGTACAAAGCCAAGACTCTTGTGGCTCTTTATTTAATATGAGAGATTCCTCG
 GGAAATCAGCAGAAGCTCGTATAATGGCTTGCCTTCCAATGTTTATGTCTGCTCTGGCCTGACTGTGGCC
 TGGGAAATGAGCATGCTGTCAAGCAAGCTGAAACACTTTTCCAGGAGATCTTCCAAGTGAAGAATCTG
 CCCTCCACCTCCAATCCAGAAGACATTATCTTTGATGGTGTATGATAAGCAGCCAGAGGCTCCTGGAACC
 AATAATGTAGTAATGGCCAAACTAGAATCCTCTGAGGAAAGCAAAAACCTAGAAAGCCAGAGAAGCACC
 TTCAAAAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218675 representing NM_001821
Red=Cloning site Green=Tags(s)

MADNLPTEFDVVIIGTGLPESILAAACSRSGQRVLHIDSRSYGGNWFASFSGLLSWLKEYQQNNDIGE
 ESTVWVQDLIHETEEAITLRKKDETIQHTEAFQYASQDMEDNVEEIGALQKNPSLGVSNFTFEVLDSALP
 EESQLSYFNSDEMPAKHTQKSDTEISLEVTDVVEESVEKEKYGDKTCMHTVSDKDGDKDESKSTVEDKAD
 EPIRNRITYSQIVKEGRRFNIDLVSKLLYSQGLLIDLLIKSDVSRVVEFKNVTRILAFREGKVEQVPCSR
 ADVFNSKELTMVEKRMLMKFLTFCLYEQHPDEYQAFRQCSFSEYLKTKKLT PNLQH FVLH SIAMTSESS
 CTTIDGLNATKNFLQCLGRFGNTPFLFPLYGQGEIPQGFRCMCAVFGGIYCLRHKVQCFVVDKESGRCKA
 IIDHFGQRINAKYFIVEDSYLSEETCSNVYKQISRAVLITDQSILKTDLDQQTSILIVPPAEPGACAVR
 VTELCSSMTCKMKTYL VHLTCSSSKTAREDLSEVVKLFTPYTETEINEEELTKPRLLWALYFNMRDSS
 GISRSSYNGLPSNVYVCSGPDCLGNEHAVKQAETLFQEIFPTEEFPPPPNPEDIIFDGDQKPEAPGT
 NNVMMAKLESSEESKNLESPEKHLQN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001821

ORF Size: 1968 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](#)

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_001821.4](#)

RefSeq Size: 7082 bp

RefSeq ORF: 1971 bp

Locus ID: 1122

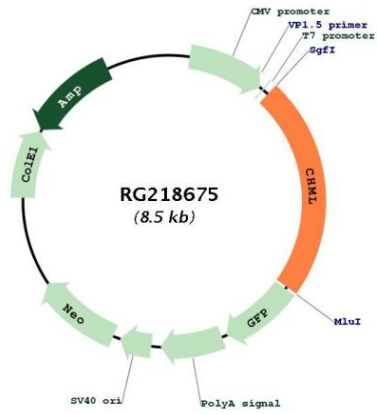
UniProt ID: [P26374](#)

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]

Product images:



Circular map for RG218675