# CHML cDNA Clone – Choroideremia-Like (Rab Escort Protein 2) (Human)

## PRODUCT OVERVIEW

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| **Product Name** | CHML, cDNA Clone |
| **Full Product Name** | CHML cDNA Clone |
| **Product Gene Name** | CHML cdna clone |
| **Sequence** | atggcggaca atcttcccac agagtttgat gtggttataa tagggacagg tttgcccgaa tccatccttg cagctgcatg ttcaagaagt ggtcagaggg ttctgcatat tgattcaaga agctactatg gaggaaactg ggctagtttc agcttttcag gattgctatc ctggttgaag gagtatcagc aaaacaatga cattggggaa gaaagtactg ttgtatggca ggacctgatc catgaaacag aagaagccat cactcttcgc aagaaggatg aaactattca acacacagaa gctttttgct acgccagtca ggatatggag gacaacgttg aagagattgg tgctctgcag aaaaatcctt ctttgggggt gtctaatacc ttcactgaag ttctggattc tgcattacct gaagaaagcc agttatcgta ttttaatagc gacgaaatgc ctgcaaaaca cactcagaaa agtgatacag agatttcact agaagtaact gatgtagagg aatcagtgga gaaggaaaag tattgtggag ataaaacttg tatgcacaca gtttcagata aagatggaga taaagatgaa agcaaatcta cagtagaaga taaggccgat gaaccaatta gaaataggat tacttactct caaatagtta aagaaggcag gaggtttaat attgatttgg tgtcaaaact gctgtattct caaggattgc taattgatct tttaatcaaa tcagatgtta gtcgttatgt agaatttaaa aatgtcacta ggattcttgc atttcgggaa ggaaaggtag aacaagttcc ttgttccaga gcagatgtct ttaatagcaa ggaactcacc atggttgaaa agaggatgct aatgaaattt ctcacatttt gtttagagta tgaacaacat cctgatgaat accaagcttt caggcagtgt tcattttcag aatacttaaa aactaaaaaa ctaactccca accttcaaca ttttgtactg cactcaattg caatgacatc agaatcatct tgcactacaa tagatggtct taacgcaact aaaaacttcc ttcagtgtct cggacggttt ggcaacaccc ccttttttatt tcccttgtat ggccaaggag aaattcccca gggtttctgt aggatgtgtg cagtttttgg tggaatctat tgtcttcgtc ataaagtaca atgctttgta gtcgacaaag aatctggacg atgtaaagca attatagatc actttggtca aagaataaat gctaaatatt ttattgtgga agacagttac ctttctgagg aaacatgctc aaatgtgcag tataagcaga tctctagggc agtactcatt acagatcagt ctatactaaa gacagattta gatcagcaga cttccattct gatagttcct ccagcagagc caggagcttg tgctgtacgg gtcacagaat tatgttcttc aaccatgaca tgcatgaagg acacctatct ggtacatttg acatgttcat cttctaaaac agcaagagaa gacttagaat cagtggtgaa gaaattattc actccgtata ctgaaacaga aataaacgag gaagaactta caaagccaag actcttgtgg gctctttatt ttaatatgag agattcctcg ggaatcagca gaagctcgta taatggcttg ccttccaatg tttatgtctg ctctgggcct gactgtggcc tgggaaatga gcatgctgtc aagcaagctg aaacactttt ccaggagatc tttccaactg aagaattctg ccctccacct ccaaatccag aagacattat ctttgatggt gatgataagc agccagaggc tcctggaacc aataatgtag taatggccaa actagaatcc tctgaggaaa gcaaaaacct agaaagccca gagaagcacc ttcaaaatta g |
| **Molecular Weight** | 74,071 Da |
| **OMIM** | 118825 |
| **Vector** | pENTR223.1 or pUC |
| **Clone Sequence Report** | Provided with product shipment |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for CHML cdna clone** | MBS1276733 is a cDNA clone targeting CHML. |
| **Other Notes** | Small volumes of CHML cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHML. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 109658885 |
| **NCBI GeneID** | 1122 |
| **NCBI Accession #** | BC117360 |
| **UniProt Secondary Accession #** | Q17RE0; Q9H1Y4; B2RAB9 |
| **UniProt Related Accession #** | P26374 |

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| **NCBI Official Full Name** | Homo sapiens choroideremia-like (Rab escort protein 2), mRNA |
| **NCBI Official Synonym Full Names** | CHM like, Rab escort protein 2 |
| **NCBI Official Symbol** | CHML |
| **NCBI Official Synonym Symbols** | REP2 |
| **UniProt Protein Name** | Rab proteins geranylgeranyltransferase component A 2 |
| **UniProt Synonym Protein Names** | Choroideremia-like protein; Rab escort protein 2; REP-2 |
| **Protein Family** | Rab proteins geranylgeranyltransferase component |
| **UniProt Gene Name** | CHML |
| **UniProt Synonym Gene Names** | REP2; REP-2 |
| **UniProt Entry Name** | RAE2_HUMAN |
| **NCBI Protein Information** | rab proteins geranylgeranyltransferase component A 2 |
| **NCBI Summary for CHML** | 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] |
| **UniProt Comments for CHML** | CHML: Binds unprenylated Rab proteins, presents it to the catalytic Rab GGTase dimer, and remains bound to it after the geranylgeranyl transfer reaction. The component A is thought to be regenerated by transferring its prenylated Rab back to the donor membrane. Less effective than REP-1 in supporting prenylation of Rab3 family. Belongs to the Rab GDI family.<br><br>Chromosomal Location of Human Ortholog: 1q43<br><br>Cellular Component: cytoplasm; nucleoplasm; Rab-protein geranylgeranyltransferase complex<br><br>Molecular Function: Rab GTPase binding<br><br>Biological Process: protein geranylgeranylation |
| **Research Articles on CHML** | **1.** Polymorphisms in the OPN3 and CHML genes are associated with asthma and atopic asthma. |
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