

Product datasheet for **MG219136**

Chml (NM_021350) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chml (NM_021350) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chml
Synonyms:	AI450814; E030003F13Rik; REP-2; Rep2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219136 representing NM_021350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGAAGCTTCCACAGAGTTTGTATGTGGTAATAATAGGGACAGGCTTCCGGAGTCCATCCTGG
 CAGCTGCATGTTCAAGAAGTGGACAGAGAGTTCTGCATGTTGACTCAAGGAGTTACTATGGAGGGAATTG
 GGCGAGTTTCAGCTTTACAGTTTGCAGTCTGGCTGAAGGACTATCAACAGAACCATGACAGCGAGGAA
 GGCGTGACCGCCACATGGCAAGACCTGATCCATGAAACAGAAGAAGCCATCTCTCTTCGCAAGAAGGATG
 AAATACTCAGCACACAGAAGTCTTCTGTTATGCTAGTCAAGATGTGGAGGACAGCGTCAAGACACCGA
 GACTCTGCAGAGAAGTCCCCCTAGAGGCATCTGCTACTCCGGCTGACTCTCTGGATTCTGCAAGCTTG
 CCCAAAGAAAGGCAGTCAGTTACTCTACAAGCTATGAAGTGCCTTCTAGACATACAGAGGAAAGTGATA
 GAGAGCTTCACTACCTCAGCTAATGTGGAGGACTCACTGGAGAAGAAAAGTACTGTGGCGATAAGAC
 GGATATGCACACAGTTTCAGGTGAAGATAAAGGTGAACACAAACTTGTGTACAAGACAGCATTGAACAA
 CCAAAGAGAAATAGGATTACTTACTCTCAAATGGTTAAGGAGAGCCGGAGATTTAATATTGACTTGGTAT
 CAAAGCCGCTGTATTCTCAAGGGTCACTGATTGATCTTCTAATCAAATCAAATGTTAGTCGTTATGCAGA
 ATTTAAGAATGCTACTAGGATCCTTGCATTTTGGGAAGGGAAGGTAGAACAGGTGCCCTTGCCTCAGAGCA
 GATGCTTTAATAGTAAAGAGCTCAGTATGGTTGAAAAGAGAATGCTAATGAAGTTTCTTACATTCTGTT
 TAGACTATGAACAACATCTGATGAATACCAAGATTTCAAACAGTGTTCATTTCTGACTACTAAAAAC
 TAAAAACTAACCTAATCTCCAGCACTTCACTACTCAATTGCAATGACATCAGAATCATCTTGC
 ACTACATTAGATGGCCTTCAAGCAACAAAACCTTTCTTCAGTGTCTTGGACGGTTTGGCAATACTCCCT
 TTATATTTCTTTATACGGCCACGGGAAATTTCCCAAGTGTCTTGCAGGATGTGTGCAGTTTTTGGTGG
 AGTCTATTGCTTCGCCATAAAGTACAATGCCTTGTAGTTGACAAAGACTCTGGAAGATGTAAGGAATC
 ATAGATGCCTTTGGTCAAGAAATAAGTGCCAACTACTTTATTGTGGAGGACAGTTATCTTCTAAGGAAA
 CATGTTCAAACGTGCAATATAAGCAGATCTCAAGGGCAGTGCTCATCACAGATCAGTCCATCCTGAAGAC
 AGATTCGGACCAGCAGATTTCCATTTTGGTAGTGCCTCCTCTGGAGCCAGGAACCACTTCTGTTCCGGTC
 ATGGAATTATGTTCTCAACATGACATGCATGAAGGACAGCTATCTGGTCCACCTGACCTGTTCTCTT
 CAAAAACAGCCAGAGAAGACTTGAACCTGTGGTGAAGCAGTTATTCATTCTGAAGCAGAAGCAGAAGC
 AGGCAAAGATGAACTCCGAAAACCAAGACTCTTGTGGCTCTTTATTTAATATGAGAGATTCTCAGGA
 GTGAGCCGAAGCTCATACTGTGGCTTACCTTCCAATGTGTACATCTGCTCTGGCCCTGACTGGGGACTGG
 GGAGTGAGCATGCAGTCAAGCAGGCGGAAACACTGTTCCAAGAGATTTTTCCAGTGAAGAGTTCTGCC
 TCCTCCACCAAAACCTGAAGACATCATCTTTGAAGCTGAGGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219136 representing NM_021350
 Red=Cloning site Green=Tags(s)

MAEKLPTFEFDVVIIGTGLPESILAAACSRSGQRVLHVDSRSYYGGNWSAFSFTGLQSWLKDYQQNHDSSE
 GVTATWQDLIHETEEAISLRKKDETIQHTEVFYASQDVEDSVQDTETLQRSSPLEASATPADSLDSASL
 PKERQSAYSTSYEVP SRHTEESDRELSPSANVEDSLEKEKYCGDKTDMHTVSGEDKGEHKL VVQDSIEQ
 PKRNRITYSQMVKESRRFNIDL VSKPLYSQSL IDLLIKSNVSRYA EFKNVTRILAFWEGKVEQVPCSR
 DVFNSKELSMVEKRMLMKFLTFCLDYEQHSDEYQDFKQCSFSDYLLKTKKLT PNLQHFILHSIAMTSESSC
 TTLDGLQATKTF LQCLGRFGNTPFIFPL YGHGEIPQCFCRMCAVFGGVYCLRHKVQCLVVDKDSGRCKGI
 IDAFGQRISANYFIVEDSYLPKETSNSVQYKQISR AVLITDQSILKTDSDQQISILVVPPLPEP GTTSVRV
 MELCSSTMTCKMDSYLVHLTCSSSKTAREDL EPVVKQLFIPEAEAEAGKDEL RKPRLWALYFNMRDSSG
 VSRSSYCGLPSNVYICSGPDWGLGSEHAVKQAETL FQEIFPSEEF CPPPPNPEDI IFEAEG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021350

ORF Size: 1863 bp

OTI Disclaimer: 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_021350.2](#), [NP_067325.2](#)

RefSeq Size: 6117 bp

RefSeq ORF: 1866 bp

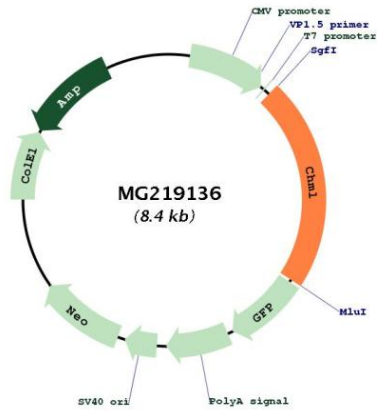
Locus ID: 12663

UniProt ID: [Q9QZD5](#)

Cytogenetics: 1 81.7 cM

Gene Summary: Substrate-binding subunit (component A) of the Rab geranylgeranyltransferase (GGTase) complex. Binds unprenylated Rab proteins and presents the substrate peptide to the catalytic component B. The component A is thought to be regenerated by transferring its prenylated Rab back to the donor membrane. Less effective than CHM in supporting prenylation of Rab3 family (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219136