

Product datasheet for **MR219136**

Chml (NM_021350) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chml (NM_021350) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chml
Synonyms:	AI450814; E030003F13Rik; REP-2; Rep2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219136 representing NM_021350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGAAGCTTCCACAGAGTTTGTATGTGGTAATAATAGGGACAGGCTTCCGGAGTCCATCCTGG
 CAGCTGCATGTTCAAGAAGTGGACAGAGAGTTCTGCATGTTGACTCAAGGAGTTACTATGGAGGGAATTG
 GGCGAGTTTCAGCTTTACAGTTTGCAGTCCTGGCTGAAGGACTATCAACAGAACCATGACAGCGAGGAA
 GGCGTGACCGCCACATGGCAAGACCTGATCCATGAAACAGAAGAAGCCATCTCTCTTCGCAAGAAGGATG
 AAATAATTCAGCACACAGAAGTCTTCTGTTATGCTAGTCAAGATGTGGAGGACAGCGTCAAGACACCGA
 GACTCTGCAGAGAAGTCCCCCTAGAGGCATCTGCTACTCCGGCTGACTCTCTGGATTCTGCAAGCTTG
 CCCAAGAAGGCGAGTCACTTACTCTACAAGCTATGAAGTGCCTCTAGACATACAGAGGAAAGTGATA
 GAGAGCTTCACTACCTCAGCTAATGTGGAGGACTCACTGGAGAAGAAAAGTACTGTGGCGATAAGAC
 GGATATGCACACAGTTTCAGGTGAAGATAAAGGTGAACACAAACTGTTGTACAAGACAGCATTGAACAA
 CCAAGAGAAAATAGGATTACTTACTCTCAAATGGTTAAGGAGAGCCGGAGATTTAATATTGACTTGGTAT
 CAAAGCCGCTGTATTCTCAAGGGTCACTGATTGATCTTCTAATCAAATCAAATGTTAGTCGTTATGCAGA
 ATTTAAGAATGCTACTAGGATCCTTGCATTTTGGGAAGGGAAGGTAGAACAGGTGCCTTGCCTCAGAGCA
 GATGCTTTAATAGTAAAGAGCTCAGTATGGTTGAAAAGAGAATGCTAATGAAGTTTCTTACATTCTGTT
 TAGACTATGAACAACATCTGATGAATACCAAGATTTCAAACAGTGTTCATTTCTGACTACTAAAAAC
 TAAAAACTAACCTAATCTCCAGCACTTCACTACTCAATTGCAATGACATCAGAATCATCTTGC
 ACTACATTAGATGGCCTCAAGCAACAAAACCTTTCTTCAGTGTCTTGGACGGTTTGGCAATACTCCCT
 TTATATTTCTTTATACGGCCACGGAGAAATCCCCAGTGTCTTGCAGGATGTGTGCAGTCTTTGGTGG
 AGTCTATTGTCTTCGCCATAAAGTACAATGCCTTGTAGTTGACAAAGACTCTGGAAGATGTAAGGAATC
 ATAGATGCCTTTGGTCAAGAAATAAGTGCAACTACTTTATTGTGGAGGACAGTTATCTTCTAAGGAAA
 CATGTTCAAACGTGCAATATAAGCAGATCTCAAGGGCAGTGTCTCACAGATCAGTCCATCCTGAAGAC
 AGATTCGGACCAGCAGATTTCCATTTTGGTAGTGCCTCTCTGGAGCCAGGAACCACTTCTGTTCCGGTC
 ATGGAATTATGTTCTCAACATGACATGCATGAAGGACAGCTATCTGGTCCACCTGACCTGTTCTCTT
 CAAAAACAGCCAGAGAAGACTTGAACCTGTGGTGAAGCAGTTATTCATTCTGAAGCAGAAGCAGAAGC
 AGGCAAAGATGAACTCCGAAAACCAAGACTCTTGTGGCTCTTTATTTAATATGAGAGATTCTCAGGA
 GTGAGCCGAAGCTCATACTGTGGCTTACCTTCCAATGTGTACATCTGCTCTGGCCCTGACTGGGGACTGG
 GGAGTGAGCATGCAGTCAAGCAGGCGGAAACACTGTTCCAAGAGATTTTTCCAGTGAAGAGTTCTGCC
 TCCTCCACCAAACCTGAAGACATCATCTTTGAAGCTGAGGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219136 representing NM_021350
 Red=Cloning site Green=Tags(s)

MAEKLPTFEFVVIIGTGLPESILAAACSRSGQRVLHVDSRSYYGGNWSFSTGLQSWLKDYQQNHDSSE
 GVTATWQDLIHETEEAISLRKKDETIQHTEVFVFCYASQDVESVQDTETLQRSSPLEASATPADSLDSASL
 PKERQSAYSTSYEVPSRHTEESDRELSLPSANVEDSLEKEKYCGDKTDMHTVSGEDKGEHKL VVQDSIEQ
 PKRNRITYSQMVKESRRFNIDL VSKPLYSQGL IDLLIKSNVSRYA EFKNVTRILAFWEGKVEQVPCSR
 DVFNSKELSMVEKRMLMKFLTFCLDYEQHSDEYQDFKQCSFSDYLKTKKLPNLQHFILHSIAMTSESSC
 TTLDGLQATKTFQLGRFGNTPFIFPLYGHGEIPQCFCRMCAVFGGVYCLRHKVQCLVVDKDSGRCKGI
 IDAFGQRISANYFIVEDSYLPKETCSNVQYKQISR AVLITDQSILKTDSDQQISILVVPPLPEP GTTSVRV
 MELCSSTMTCKMSYLVHLTCSSSKTAREDLPEVVKQLF IPEAEAEAGKDEL RKPRLWALYFNMRDSSG
 VSRSSYGLPSNVYICSGPDWGLGSEHAVKQAETL FQEIFPSEEF CPPP NPEDI IFEAEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9075_a05.zip

Restriction Sites: SgfI-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](#)

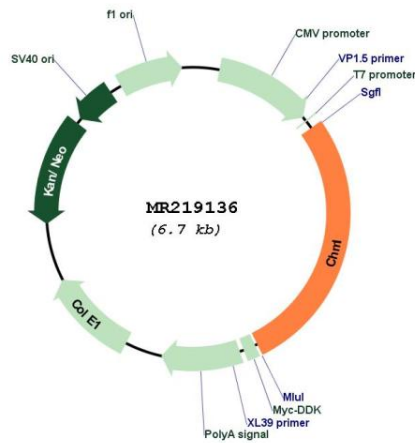
RefSeq Size: 6117 bp

RefSeq ORF: 1866 bp

Locus ID: 12663
UniProt ID: [Q9QZD5](#)
Cytogenetics: 1 81.7 cM
MW: 70 kDa

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 MR219136