

Product datasheet for **RR208015**

Chrm2 (NM_031016) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrm2 (NM_031016) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrm2
Synonyms:	Acm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR208015 representing NM_031016
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATAACTCAACAACTCCTCGAACAAATGGCTTGGCTATTACCAGTCCTTACAAGACATTTGAAGTGG
 TATTTATTGTCCTTGTGGCTGGATCCCTCAGTCTGGTGACCATCATTGGGAACATTCTGGTCATGGTTTC
 CATTAAAGTCAGCCGCCACCTTCAGACTGTCAACAATTACTTCTTGTTCAGCCTGGCCTGTGCTGACCTC
 ATCATAGGTGTTTTCTCCATGAACCTGTATACCTCTACACTGTGATTGGCTACTGGCCTTTGGGACCTG
 TAGTATGTGACCTATGGCTAGCATTGGACTATGTTGTCAGCAATGCCTCCGTTATGAATCTCCTCATCAT
 CAGCTTTGATAGATACTTCTGTGTACGAAACCTCTGACCTACCCAGTTAAGCGGACCACAAAAATGGCA
 GGCATGATGATTGCAGCTGCGTGGTCTTTCTTTCATCTCTGGGCCCCAGCCATTCTCTTCTGGCAGT
 TCATCGTAGGGGTGAGGACTGTGGAGGATGGGGAATGCTATATTCAGTCTTTTCCAATGCGGCCGTAC
 CTTCCGGCACTGCCATTGCAGCTTCTATCTGCCTGTCATCATCATGACTGTGCTCTATTGGCATATATCC
 CGGGCAAGCAAGAGTAGAATAAAGAAGGAAAAGAAGGAACCTGTGGCCAACCAAGACCCAGTATCTCCAA
 GTCTGGTGCAAGGAAGAATTGTAAGGCCAAACAATAACAATATGCCTGGTGGTGTATGGCGCCTGGAACA
 CAACAAGATCCAGAAATGGCAAGGCTCCACGGGACGGCGTGACTGAAACCTGTGTTCAAGGGGAGGAGAAA
 GAGAGCTCCAATGATTGACGTCATCAGCTGCTGTGGCTCCAATATGAGAGATGATGAGATAACCCAGG
 ATGAAAACACAGTTTCCACTTCGCTGGACCACTCCAGAGATGACAACCTAAGCAAAATGCATCAAAAT
 TGTACCAAGGCCAAAAAGGTGATGTACACCCCAACGAGTACCACTGTAGAAGTGTGGTCTGTCG
 GGTGAGAGTGGGATGAAAAGCAGAACGTTGTAGCCCGCAAAATCGTGAAGATGCCCAAGCAGCCTGCCA
 AAAAGAAGCCTCCACCATCCCGGAAAAGAAAGTGACCAGGACAATCTTGGCTATCTGTGGCTTTTCA
 CATAACGTGGGCCCATACAATGTCATGGTCTCATCAATACTTCTGTGCACCCTGCATCCCAATACA
 GTATGGACAATTGGCTACTGGCTCTGTTACATCAATAGCACCATCAATCCGGCCTGCTATGCGCTTTGTA
 ATGCCACCTTCAAAAAGACTTTTAAAGCACCTCCTCATGTGCATTACAAGAACATAGGCGCTACACGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208015 representing NM_031016
 Red=Cloning site Green=Tags(s)

MNNSTNSSNGLAITSFYKTFEYVFIIVLAGSLSLVTIIGNILVMVSIKVSRLQTVNNYFLFLACADL
 IIGVFSMNLTYLYTVIGYWPLGPVVCDDLWALDYVVSNASVMNLLIISFDYFCVTKPLTYPVKRTTKMA
 GMMIAAAWVLSFILWAPAILFWQFIVGVRTVEDGECYIQFFSNAAVTFGTAAAFYLPVIIMTVLYWHIS
 RASKSRIKKEKKEPQANQDPVSPSLVQGRIVKPNNNMPGGDGGLEHNKIQNGKAPRDGVTETCVQGEK
 ESSNDSTSSAAVASNMRDDEITQDENTVSTSLDHSRDDNSKQTCIKIVTKAQKGDVYPTSTTVLGVSS
 GQSGDEKQNVVARKIVKMPKQPAKKKPPPSREKKVTRTILAILLAFIITWAPYNNVMVLINTFCAPCIPNT
 VWTIGYWLICYINSTINPACYALCNATFKKTFKLLMCHYKNIGATR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1770_c03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_031016

ORF Size: 1398 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](#)

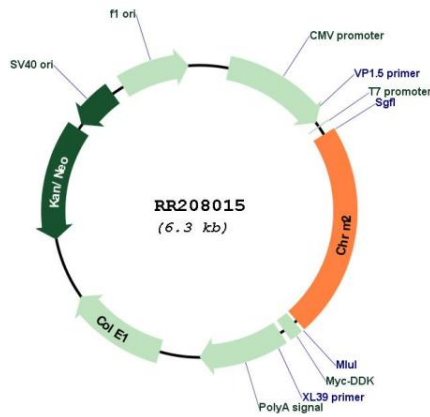
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_031016.1](#), [NP_112278.1](#)
 RefSeq Size: 2483 bp
 RefSeq ORF: 1401 bp
 Locus ID: 81645
 UniProt ID: [P10980](#)
 Cytogenetics: 4q22
 MW: 52 kDa
 Gene Summary: may inhibit cholinergic-mediated bronchoconstriction; may regulate bladder contraction [RGD, Feb 2006]

Product images:



Circular map for RR208015