

Product datasheet for **RC230115**

GRAMD1C (NM_001172105) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAMD1C (NM_001172105) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRAMD1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC230115 representing NM_001172105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAACTTGTCCTGTCGATTGAGGATGTGCAGCCAAGAAGTCCAGGAAGAAGCAGCTTGGATGACT
 CTGGGGAGAGAGATGAAAAATTATCCAAGTCAATCAGTTTTACCAGTGAATCAATTAGTCGGGTTTCAGA
 AACAGAGTCATTCGATGGAAATTCATCAAAAGGAGGATTAGGCAAAGAGGAGTCCCAAAATGAGAAACAG
 ACCAAAAAGAGTCTTTACCAACTTTGGAAAAGAAGTAACTAGAGTGCCATCAAAGTCACTGGACTTGA
 ATAAAAATGAATATCTTTCTCTGGACAAAAGCAGCACTTCAGATTCTGTTGATGAAGAAAATGTTCTGA
 GAAAGATCTTCATGGAAGACTTTTTATCAACCGTATTTTTCATATCAGTGTGACAGAATGTTTGAATTG
 CTCTTTACCAGTTCACGCTTTATGCAGAAATTTGCCAGTCTAGAAAATAATAGATGTAGTATCTACCC
 CTTGGACTGCAGAACTTGAGGTGATCAGCTGAGAACGATGACCTACACTATAGTCTTAATAGTCCACT
 TACTGGAAAATGCACTGTGCCACTGAAAAGCAGACACTGTATAAAGAAAGTCGGGAAGCAGCATTTTAT
 TTGGTAGATTGAGAAGTACTGACACATGATGTCCCTACCATGATTACTTCTATACCGTGAACAGATACT
 GTATCATCCGATCTTCAAAACAGAAATGCAGGCTAAGAGTTTTCCACAGATTTGAAATACAGAAAACAGCC
 ATGGGGCCTTGTCAAATCTTAATTGAAAAGAATTCCTGGAGTCTTTGGAGGACTATTTCAAACAGCTT
 GAATCAGATTTGTTAATTGAAGAATCTGTATTAATCAGGCCATTGAAGACCCTGGAAAACCTACTGGCC
 TACGAAGGAGAAGGCGAACCTTCAACCGAACAGCAGAAACAGTTCCTAACTTTCTCTCAGCATTCCCTC
 TGGAGATGTGGGCTTAGGTGCCAAGGGGATATTACAGGAAAGAAAAGGAAATGGAAAACATAACGTC
 ACTCTTATTGGTAATGAGTATTTTGTGTTGTTATTAGTTTTGTTGAATGTGACACTGTTTCTGAAGC
 TGTCAAAGATAGAACATGCTGCTCAGCTCTTTTACCGTCTCCGCTCCAAGAAGAGAAATCTTTAAATTT
 AGCCTCTGATATGGTGTCAAGAGCAGAAACTATTCAGAAGAATAAAGATCAGGCCCATCGTTTAAAGGGA
 GTGCTCCGAGACTCCATAGTGTGCTTGAACAGCTGAAGAGCTCACTCATTATGCTTCAGAAAACGTTTG
 ATCTACTAAATAAGAATAAGACTGGCATGGCTGTTGAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230115 representing NM_001172105
 Red=Cloning site Green=Tags(s)

MENLSLIEDVQPRSPGRSSLDSDGERDEKLSKISFTSEISRVSETESFDGNSKGGGLKEESQNEKQ
 TKKSLLEKLLTRVPSKSLDLNKNKNEYLSDKSSTSDSVDEENVPEKDLHGRLFINRIFHISADRMFEL
 LFTSSRFMQKFASRNIDVVPWPWTAELGGDQLRTMTYIVLNSPLTGKCTAAEKQTLYKESREARFY
 LVDSEVLTHDVPYHYDYFTVNRYSIRSSKQKRLRVSTDLKYRKQPWGLVKSLIEKNSWSLEDFYKQL
 ESDLLIEESVLNQAIEDPGKLTGLRRRRRTFNRTAETVPKLSQHSQSDVGLGAKGDITGKKKEMENYNV
 TLIVVMSIFVLLLVLLNVTFLKLSKIEHAAQSFYRLRLQEEKSLNLASDMVSRAETIQKNKDQAHRLKG
 VLRDSIVMLEQLKSSLIQLKTFDILLNKNKTGMAYES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8102_a05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001172105

ORF Size: 1371 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_001172105.2](#)

RefSeq Size: 3497 bp

RefSeq ORF: 1374 bp

Locus ID: 54762

UniProt ID: [Q8IYS0](#)

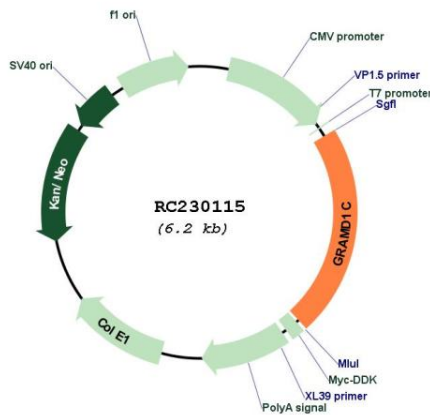
Cytogenetics: 3q13.31

Protein Families: Transmembrane

MW: 52 kDa

Gene Summary: Cholesterol transporter that mediates non-vesicular transport of cholesterol from the plasma membrane (PM) to the endoplasmic reticulum (ER) (By similarity). Contains unique domains for binding cholesterol and the PM, thereby serving as a molecular bridge for the transfer of cholesterol from the PM to the ER (By similarity). Plays a crucial role in cholesterol homeostasis and has the unique ability to localize to the PM based on the level of membrane cholesterol (By similarity). In lipid-poor conditions localizes to the ER membrane and in response to excess cholesterol in the PM is recruited to the endoplasmic reticulum-plasma membrane contact sites (EPCS) which is mediated by the GRAM domain (By similarity). At the EPCS, the sterol-binding VASt/ASTER domain binds to the cholesterol in the PM and facilitates its transfer from the PM to ER (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC230115