

Product datasheet for **SC316068**

GRAMD1B (NM_020716) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAMD1B (NM_020716) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRAMD1B
Synonyms:	LINC01059
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_020716 edited
 ATGAAAGGATTCAAGCTCTCCTGCACTGCCAGTAACTCCAACCGCAGCACGCCGGCCTGC
 TCGCCCATCTCCGGAAGCGGTCTCGCTCGCCAACCCCGCAGAACCGAGCAGGAGACACC
 ATGGTGGAGAAGGGCTCAGATCACTCTCGGACAAGTCCCGTCCACACCGGAGCAGGGC
 GTGCAGCGCAGTGTCTCTCCAGTCCGGCCGAGCGCGGCAAGAATTCCAAGAAAAGC
 CAGAGTTGGTATAATGTGTTAAGCCCCACCTACAAGCAGAGAAATGAAGACTTCAGAAAG
 CTCTTTAAGCAGCTTCCAGACACGAGCGCCTCATTGTTGATTACTCATGTGCACTCCAA
 AGAGACATTCTCCTTCAGGGCCGACTCTACCTCTCTGAAAATTGGATCTGCTTCTACAGC
 AACATCTTCCGCTGGGAACTCTGCTGACAGTCCGTTTGAAGACATCTGTTCCATGACT
 AAAGAAAAACAGCTCGCTCATTCCCAATGCCATCCAAGTTTGCATGATTAGAAAAG
 CACTTCTTCACTTCGTTTGGGGCCGGGATAGGACATATATGATGATGTTCCGGCTCTGG
 CAGAATGCTCTCCTTGAAGGCCTCTGTGTCCCAAGGAGCTCTGGCACTTTGTTACCCAG
 TGCTATGGGAACGAATTGGGCTGACCACTGATGACGAGGACTACGTGCCCCCTGACGAC
 GACTTCAACACAATGGGATACTGTGAAGAGATCCCTGTGGAAGAGAATGAAGTAATGAC
 AGCTCATCCAAGAGCAGCATAGAGACCAAGCCAGATGCCAGTCCACAGCTGCCAAGAAA
 TCCATCACCAACAGCACACTAACATCCACAGGGAGCAGTGAGGCCCCCGTCTCGTTTGAT
 GGGCTGCCCTGGAGGAAGAGGCGCTGGAGGGAGACGGGTCCCTGGAAAAGGAGCTCGCC
 ATTGACAACATCATGGGGGAGAAGATTGAGATGATCGCTCCTGTGAACCTCCCTTCACTG
 GACTTCAATGACAATGAGGACATCCCCACTGAGCTCAGTCACTTCCGACACACAGAT
 GAAGGAGAGGTCCAGGCCTTCTATGAGGACCTGAGTGGCCGGCAGTACGTGAATGAAGTC
 TTCAACTTCAGCGTGGACAAGCTCTATGACCTCCTTTACCAACTCGCCCTTCCAGCGG
 GATTTTCATGGAGCAGCGCGCTTCTCTGATATCATCTTCCATCCATGGAAAAGGAGGAG
 AATGGAAACCAGAGCCGAGTGATTCTTTACACCATCACCTTACCAACCTCTGGCTCCC
 AAAACTGCCACTGTCAGGGAGACACAGACCATGTACAAGCGAGCCAGGAGAGTGAATGT
 TACGTGATAGATGCCGAAGTCTCACCCACGACGTGCCCTACCACGACTACTTCTACACA
 ATCAATCGCTACACGCTCACCCGTGTGGCTCGGAACAAGAGCCGACTCAGGGTCTCCACA
 GAGCTGCGCTATCGAAAACAGCCCTGGGGTTAGTGAAAACGTTTCATCGAGAAGAACTTC
 TGGAGTGGGCTGGAGGACTACTCCGCCATTTAGAGAGCGAGCTGGCCAAAACGGAGAGC
 ACTTATTTGGCTGAGATGCACAGACAATCTCCAAAGAGAAGGCCAGCAAGACTACAACG
 GTGCGGAGGAGGAAGCGTCCCCATGCCACCTGCGAGTCCCTCACCTGGAAGAGGTGATG
 AGCCCGGTCAACACGCCACAGATGAGGATGTGGGCCACAGGATCAAACATGTGGCAGGT
 TCCACACAGACGCGGCATATCCCGGAGGACACCCCAACGGTTTCCACCTGCAGAGCGTG
 TCCAAGCTGCTGCTGTTATCAGCTGTGTGATCTGTTTCACTCTGGTGTCTGCTGATC
 CTTAACATGATGCTCTTCTACAACTCTGGATGTTGGAATACACCACGACACCTCACT
 GCCTGGCAGGGTCTAAGGCTCCAAGAAAGGTTACCCAGTCTCAGACAGAATGGGCCCAG
 CTCTTAGAGTCCCAACAAAAGTACCACGATACTGAGCTCCAAAATGGAGGAAATCATC
 AAATCCTCAGTGATGCTCCTTGACCAGATGAAGGACTCGCTCATCAACCTTCAGAACGGC
 ATCAGTCCCAGGACTACAGTCGGAAGTGAAGAAAAGAGGAATCGCTATCATTGA

Restriction Sites: Please inquire

ACCN: NM_020716

Insert Size: 2200 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_020716.1</u> , <u>NP_065767.1</u>
RefSeq Size:	2761 bp
RefSeq ORF:	2217 bp
Locus ID:	57476
UniProt ID:	<u>Q3KR37</u>
Cytogenetics:	11q24.1
Protein Families:	Transmembrane
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 in the adrenal gland 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]