

Product datasheet for SC301686

GRAMD2A (NM_001012642) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAMD2A (NM_001012642) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRAMD2A
Synonyms:	GRAMD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301686 representing NM_001012642. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGACCGCTTTAAGCCGAGCGAGGCCACCGAGGAGGGCGGCAACCAACAAATGCACAGAAAGACAGCT
 TCTCTGAACAGTCCTGTCTCCTGCAAAGAGAAACCAGACAGAGTTGAGGAGCCCCGGACTACAGTCTG
 CACTGGCCAGAAGGCTTGAAGGGTGAAGAGATAAAGAAGTGTGGCCGAGAAGGGATAACACTGAATAAA
 TACAACCAGCAATACCACAAGCTGTTTAAGGATGTTCCCTTGAGGAAGTGGTTCTCAAAGTGTGTTCC
 TGTGCCCTCCAGAGGGACTTCTCCTCCAGGGCCGGCTCTACATCTCCCCAACTGGCTCTGCTTCCAT
 GCCAGCCTCTTTGGCAAGGATATCAAGGTGGTCATTCTGTGGTGTCTGTGCAAATGATCAAAAAACAC
 AAGATGGCACGGCTCCTTCCCAATGGACTGGCCATCACCACCAACACCAGCCAGAAGTATATCTTTGTG
 TCACTGCTCTCCCGGGACAGTGTATATGACCTGCTGAGGAGAGTCTGCACCCACCTACAGCCTTCCAGC
 AAGAAGAGTCTGAGTGTAAGAGAATTTTCAGGGGAACCTGAGTCTCTGGAAGTCCATCCCTGAGATG
 AAGTGGAGAAAGGTATGCCCTTCTCCAGGTCCCTGTCTCTCCAGACAACATCCCTTGATCCCTCCA
 TCATCCGTGGACTCCACAGACAGTTTCTTCCCTCCAGGAAGCCTCCAATGTCTGAAAAGTCAAGAGCC
 CAAGTAGCTTCAGAAAATGGTGGGAGGTGGGCATGGCCATGCCAGGCTGGGGTCTGCCTGCCCTAAG
 AAGATGCCGAAGTGTCTCCCACTGCAAAGAATGCTGTCTATGAGGAGGATGAGCTGGAGGAGGAGCCC
 AGGAGCACTGGGAGCTGAGGCTCTGGGATTACCGGCTCCTCAAGGTCTTCTTTGTGCTGATCTGCTTC
 CTGGTCATGTCTCATCTACCTACCTGGCGTTCCGTATTTCTCGGCTAGAGCAGCAGTTATGCTCCTTGAGT
 TGGGATGACCCAGTCCCTGGGCACAGG**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001012642


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Insert Size:	1065 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_001012642.2</u>
RefSeq Size:	3318 bp
RefSeq ORF:	1065 bp
Locus ID:	196996
UniProt ID:	<u>Q8IU3</u>
Cytogenetics:	15q23
Protein Families:	Transmembrane
MW:	40.2 kDa
Gene Summary:	Participates in the organization of endoplasmic reticulum-plasma membrane contact sites (EPCS) with pleiotropic functions including STIM1 recruitment and calcium homeostasis. Constitutive tether that co-localize with ESYT2/3 tethers at endoplasmic reticulum-plasma membrane contact sites in a phosphatidylinositol lipid-dependent manner. Pre-marks the subset of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2)-enriched EPCS destined for the store operated calcium entry pathway (SOCE).[UniProtKB/Swiss-Prot Function]