

Product datasheet for **MC215137**

Gramd2 (NM_001033498) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gramd2 (NM_001033498) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gramd2
Synonyms: BC064463; Gramd2a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC215137 representing NM_001033498
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACACATTTCCCTCTAGCAACCAACAATGCACGGGAAGATGGCACCTCTGAAGAGCCATGTGCCCT
GCACGGAGAAACCAGGAAAGTCCAGGAGCCTCCAGATGATGGCAGTCTGCACTGGTCTCAGAAGGCTCAA
GGGTGAAGACATAAAGAAGTATAGCCGGGAAGGGACACTACGGAGCAAATACAACCAACAATACCACAAG
CTGTTTAAAGATATCCCCTGGAGGAGTGGTCCCAAAGTGTGTTCTGTGCCCTCCAGAGAGACTCC
TTCTCCATGGTCCGCTCTATATCTCTCCAACCTGGCTTTGCTTCCATGCCAGCCTCTTTGGCAAGGATAT
CAAGGTGGTCAATTCCTGTGGTATCTGTGCAATTGATCAAAAAACACAAGATGGCAGGACTCCTTCCCAAT
GGACTGGCCATCACCACAAACACCAGCCAGAAGTATGTCTTTGTGTCTGCTTTCCCGGACAGTGTAT
ATGACATGCTGAGGAGGGTCTGCACTCACCTGCAGCCTCCAGCAAGAAGAGTCTGAGTATAAGGAAATT
TCCGGAGGAAGCCGAGTGCAGTCCCGGAAGTCTTATCCCGAGATGAAGTGGAGAAAAGCATGCTCA
GCCCCGCATCCCTGTCACTCCAGACAGCATCTTTGTATCTCTCAGATCCCGACAGACTCCACAGATA
GCTGCTTCCCCTCCAGGAAGCCTCCAGGGTCTGAGGCCGTCTGTGAGAAAGATGCATTGGAGGAAGAGCC
CAGCACGGACCAGGAAGTGGGCTGTGGGATTCTCGGCTCCTCAAGGTCACTTTGTGATGATCTGCTTT
CTAGTCTGTCTCGTCTATCTGGCATTCCGAATCTCCAGGCTGGAACAGCAATTATGTTCCCTGAGCT
GGGGCAGTCCACTCCAAGGGACAGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033498
Insert Size: 939 bp



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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).
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:	<ol style="list-style-type: none">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_001033498.1</u> , <u>NP_001028670.1</u>
RefSeq Size:	1368 bp
RefSeq ORF:	939 bp
Locus ID:	546134
UniProt ID:	<u>Q3V3G7</u>
Cytogenetics:	9 B
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>