

## Product datasheet for **MC219936**

### **Gga1 (NM\_145929) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gga1 (NM_145929) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gga1
Synonyms:	4930406E12Rik; AU016030; AW209092
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219936 representing NM\_145929  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCCGGATGGAGCCGAGACTCTGGAGGCACGAATCAACAGAGCCACAAATCCCCTGAACAAGG  
 AGCTGAACTGGGCCAGCATCAACAGTTTCTGCGAGCAGCTCAACGAAGACTTTGAGGGCCCTCCACTTGC  
 CACTCGCTTGTGGCCACAAGATCCAGTCCCCACAGGAATGGGAAGCCATCCAGGCCTTACCGTTCTG  
 GAGACGTGCATGAAGAGCTGCGCAAGAGGTTCCATGATGAGGTGGGCAAGTTCCGCTTCTCAACGAGC  
 TCATCAAGGTTGTCTCCCAAGTACTTGGGCTCCCGGACATCTGAGAAGGTGAAGAGTAAGATCTTGA  
 GCTGCTGTACAGCTGGACGTTTGCCTGCCTGAGGAGGTGAAGATTGCAGAAGCCTACCAGATGCTGAAG  
 AAGCAGGGGATTGTGAAGTCGGACCCCAAGCTTCCAGAGGATGCCATCTTCCCCTCCCCCTCCCCGGC  
 CCAAGAATGTGATCTTTGAAGATGAGGAGAAGTCCAAGATGCTGGCCCGCTGCTGAAGAGCTCACACCC  
 TGAGGACCTCCGGGCTGCCAATAAGCTCATCAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAAAAG  
 ATCTCCAAGCGGGTGAATGCCATCGAGGAGGTCAACAACAATGTGAAGTTGCTGACAGAGATGGTATGA  
 GCCACAGCCAGGGTGTGCATCCAGCAGCAGTGGAGCCTCATGAAGAACTGTACCAGCGCTGTGAGCG  
 CATGCGACCCACACTCTCCGACTGGCCAGTGACACGGAAGACAATGATGAGGCCTTAGCTGAGATCCTG  
 CAGGCTAATGACAATCTCACCCAGGTGATCAACCTGTACAAGCAGCTGGTCCGGGGCAGGAGGTCAACG  
 GTGATGCCACAGCCAGCTCCATTCTGGAAGCAGCTCAGCCCTGCTGGACCTCTCAGGCCTGGACCTCCC  
 TCCCCCGGCACCCAGCCAGCCAGCCACCCCGCCCTGGCAACCAGAGCAGTCTGAGCAGCTCAGT  
 GCCTCGGTGTCCCTGCTGTGACGAGCTCATGTCTCTGGGCCTAAGTGACCCGACACCACCTTCAGGCA  
 CCAGCTCAGATAGTGTGGGTGGGACAACCTCCAGTCATCAGATGGCACTGAATCCTCAGTCCCTCCTCC  
 AGCCAGGCCCCAGCATGGACTGCCGACCCCCAGCCAGGCCCTCCACCAACGAGCAGCGGCCTGGAC  
 GACCTGGACCTCTTGGGAAAACCTTATGCAGCAGGCTCTGCCTCCGGAAGCCAGCAAGTGCGGTGGG  
 AGAAGCAGCAGCCAGCCCCCGGCTCACCTCCGTGACCTGCAGAGTAAGAGCAGCTCGCCAGCCAGG  
 AGCCGCCAGCCTCCTCCACACCAGTCCCAGAGCCCTGGGCCTCCACCTCAGGCCACACCCACTGAG  
 TTCTCCCTAACCCAGCATCACTGTCCCTGGAGTCTATCAAACCCAGCAGCATCTTGCCAGTGACCGTTT  
 ATGACCAGCATGGCTTCCGTGCTCTTCCATTTGCTCGGGACCCACTGCCAGGGCGCTCCGATGTGCT  
 GGTGGTGGTCTCTATGCTGAGCAGCGGCCCCAGCCATCCGGAACATCGTTTTCCAGTCAGCCGTC  
 CCCAAGGTCATGAAGGTGAGGCTGCAGCCACCTCCGGCACAGAGCTGCCAGCGTTCAACCCCATCGTCC  
 ACCCCTCAGCCATCACCCAGTCTGCTCCTTGCTAACCCCCAGAAGGAGAAGGTTGCGCTCCGCTACAA  
 GCTCATCTTCACTATGGGCGACCAGACCTACAATGAGATGGGAGATGTGGATCAGTTCACCCACAGAG  
 ACCTGGGGGAGCCTC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_145929
- Insert Size:** 1908 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).
- 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\\_145929.2](#), [NP\\_666041.1](#)

**RefSeq Size:** 3034 bp

**RefSeq ORF:** 1908 bp

**Locus ID:** 106039

**UniProt ID:** [Q8R0H9](#)

**Cytogenetics:** 15 E1

**Gene Summary:** Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes (PubMed:25405894). Mediates the ARF-dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (DXXLL) motif. Mediates export of the GPCR receptor ADRA2B to the cell surface (By similarity). Required for targeting PKD1:PKD2 complex from the trans-Golgi network to the cilium membrane (PubMed:25405894). Regulates retrograde transport of proteins such as phosphorylated form of BACE1 from endosomes to the trans-Golgi network (By similarity).[UniProtKB/Swiss-Prot Function]