

## Product datasheet for MR205395

### Gga2 (BC057377) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gga2 (BC057377) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gga2
Synonyms:	1200007E24Rik; mKIAA1080
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205395 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAGCATGTACCGAAGGCCAGGTCATGCCCTGCCGACCAGCAGGCCCTGCAGGTTGTGTATGAAA  
GATGTGAGAAGCTGAGGCCACCCTGTTCCGGCTTGAAGCGACACCCTGATGACGACGATGCTCTGGC  
GGAGATTCTTCAAGCAAATGACCTTCTCACACAGGGGTTCCGGCTGTACAAACAGGTGGTGGAGGCCGA  
GTTAGTGCTGGGAACGCAGTGCCTGCCGAGTGGGAGCCATCCCGCCCCAGAGCATTCCCGAATCCAG  
AACCTGTGGTTGAACTGTCCACTCATTGACCTGGAGACGCCATCTTTGCTTCATCAGGACCTGGCAGC  
CTTAGGAATCAACGATGTTCCACTAGGAACCAGGTTGTTATTCCGAGTTGCTGTAAATGACAAGAAGCAG  
CCGGGTGCCATCACACTCATGGGGGTGGAATCCAGAGTCTTTCTGCAGACCGGAACCTGCTGGATCTCT  
TCTCGCCACAGCCATCTCCAGGACTGAATTATGTTCCACAAAAAGCATCCCCAAGGAGGTGCCACCAGG  
TACCAAGGCCCTCCAGGTTGGTCTGGGAGGCTGGGCCATTGGCTTCTTCCACAGCCTCACAGAATACA  
CCTCTGGCTCATGTGTTTGTCCCTTTGGAGTCTGTGAAACCCAGCAGCTTGGCCGCCCATTGTCGTATG  
ACCGAATGGCTCCGAATCTGCTGCACTTCTCCAGACTGGGGCCCTGGCCACCCGGATGTGAAGGT  
GTTGTTGTTGACCATGATGAGCACTGCCACCAACCTGTCTGGGATGTATGTTTCAGGTGGCTGTCCCA  
AAGTCAATGCGAGTGAAGCTGCAGCCGGCATCCAGCTCCAAGTCCCTGCATTAGTCTTTGATGCCTC  
CAGCAGTGATATCTCAGACGCTGTTGCTCGACAACCCACACAAAAGAACCTATCCGTTGGCGTATAAGCT  
GACTTTCAACCAAGGTGGCAGCCGTTCAAGTAGGAGAGGTGAAAGACTTTCCAGACCTGGCTGTC  
TTGAGCACCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205395 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSMYRRPGHALPDQQALQVVYERCEKLRPTLFRLASDTTDDDDALAEILQANDLLTQGVRLYKQVVEGR  
 VSAGNAVPAAVGAIPAPRAFNPPEPCGLNCPLIDLETSSLHQDLAALGINDVPTRNQVVIPSCCNDKKQ  
 PGAITLMGGGIQSLADRNLDDLFSQPSPGLNYVPQKSIPKEVPPGKASPGWSWEAGPLASSTASQNT  
 PLAHVFVPLESVKPSLPPPIVVYDRNGFRILLHFSQTGAPGHPDVKVLTLTMMSTATQPVDVDFQVAVP  
 KSMRVKLPASSSKLPAFSPLMPPAVISQTLTLLDNPHKEPIRLRYKLTFFNQGGQPFSEVGEVKDFPDLAY  
 LSTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC057377

**ORF Size:** 1062 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:** [BC057377](#), [AAH57377](#)

**RefSeq Size:** 2370 bp

**RefSeq ORF:** 1064 bp

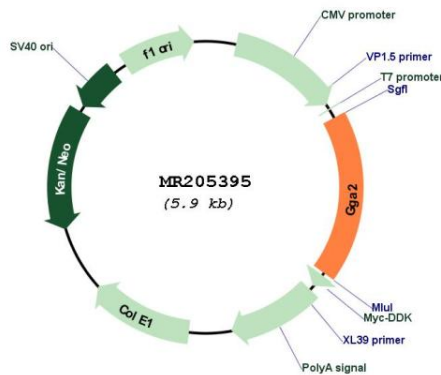
**Locus ID:** 74105

**Cytogenetics:** 7 F2

**MW:** 38.2 kDa

**Gene Summary:** Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. 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. Regulates retrograde transport of phosphorylated form of BACE1 from endosomes to the trans-Golgi network.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205395