

Product datasheet for **MG205395**

Gga2 (BC057377) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gga2 (BC057377) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gga2
Synonyms:	1200007E24Rik; mKIAA1080
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205395 representing BC057377 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGCATGTACCGAAGGCCAGGTCATGCCCTGCCGACCAGCAGGCCCTGCAGGTTGTGTATGAAA
GATGTGAGAAGCTGAGGCCACCCTGTTCCGGCTTGAAGCGACACCACTGATGACGACGATGCTCTGGC
GGAGATTCTTCAAGCAAATGACCTTCTCACACAGGGGTTCCGGCTGTACAAACAGGTGGTGGAGGCCGA
GTTAGTGCTGGGAACGCAGTGCCTGCCGAGTGGGAGCCATCCCGCCCCAGAGCATTCCCGAATCCAG
AACCTGTGGGTTGAACTGTCCACTCATTGACCTGGAGACGCCATCTTTGCTTCATCAGGACCTGGCAGC
CTTAGGAATCAACGATGTTCCCACTAGGAACCAGGTTGTTATTCCGAGTTGCTGTAATGACAAGAAGCAG
CCGGGTGCCATCACACTCATGGGGGTGGAATCCAGAGTCTTTCTGCAGACCGGAACCTGCTGGATCTCT
TCTCGCCACAGCCATCTCCAGGACTGAATTATGTTCCACAAAAAGCATCCCCAAGGAGGTGCCACCAGG
TACCAAGGCCCTCCAGGTTGGTCTGGGAGGCTGGGCCATTGGCTTCTCCACAGCCTCACAGAATACA
CCTCTGGCTCATGTGTTTGTCCCTTTGGAGTCTGTGAAACCCAGCAGCTTGGCCGCCCATTGTCGTGTATG
ACCGAATGGCTCCGAATTCTGCTGCACTTCTCCAGACTGGGGCCCTGGCCACCCGGATGTGAAGGT
GTTGTTGTTGACCATGATGAGCACTGCCACCCAACCTGTCTGGGATGTCATGTTTCAGGTGGCTGTCCCA
AAGTCAATGCGAGTGAAGCTGCAGCCGGCATCCAGCTCCAAGTCCCTGCATTGCTCTTTGATGCCTC
CAGCAGTGATATCTCAGACGCTGTTGCTCGACAACCCACACAAAAGAACCTATCCGTTGGGTATAAGCT
GACTTTCAACCAAGGTGGCAGCCGTTCAAGTAGGAGAGGTGAAAGACTTTCCAGACCTGGCTGTC
TTGAGACCGCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205395 representing BC057377
 Red=Cloning site Green=Tags(s)

MLSMYRRPGHALPDQQALQVVYERCEKLRPTLFRLASDTTDDDDALAEILQANDLLTQGVRLYKQVVEGR
 VSAGNAVPAAVGAIPAPRAFNPPEPCGLNCPLIDLETSSLHQDLAALGINDVPTRNQVVIPSCCNDKKQ
 PGAITLMGGGIQSLSADRNLDDLFSQPSPGLNYVPQKSIPKEVPPGTKASPGWSWEAGPLASSTASQNT
 PLAHVFPLESVKPSSLPIVVYDRNGFRILLHF SQTGAPGHPDVKVVLLTMMSTATQPVWDMFQVAVP
 KSMRVKLPASSSKLPAFSPMPPAVISQTLTLLDNPHKEPIRLRYKLT FNQGGQPFSEVGEVKDFPDLAY
 LSTA

TRTRPLE - GFP Tag - V

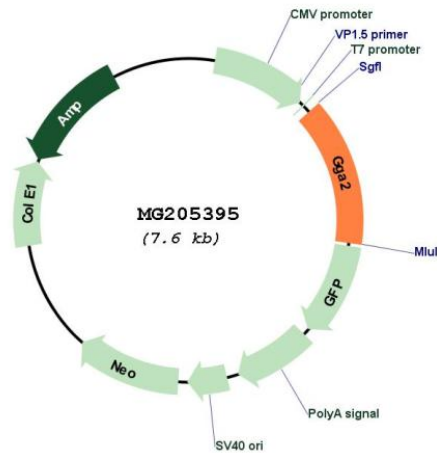
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC057377

ORF Size:	1064 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:	<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:	BC057377 , AAH57377
RefSeq Size:	2370 bp
RefSeq ORF:	1064 bp
Locus ID:	74105
Cytogenetics:	7 F2
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]