

Product datasheet for **MG209334**

Gga2 (NM_028758) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gga2 (NM_028758) 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)



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ORF Nucleotide Sequence:

>MG209334 representing NM_028758
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCGACGGCAGTGGCAGCGGGACCGGATCCCCGGCAGGGACCGAGTCGGCGGAGGGCGGCCCTG
 GGGCAGCGCGCGCTGGAGCTGTGGCTCAACAAAGCCACAGACCAAGCATGGCGGAGCAGGATTGGTC
 AGCCATCCAGAAGTTCTGTGAGCAGGTGAACACCGACCCAGTGGCCCGACACATGCACCCTGGCTACTG
 GCCACAAGATTCACTCCACAGGAGAAGGAAGCCCTTTATGCCCTGACGGTGTGGAGATATGCATGA
 ACCACTGTGGGAGAAGTCCACAGTGAAGTGGCCAAGTCCGCTTCTGAACGAGCTGATCAAAGTATT
 GTCCCCAAAGTACCTAGGGGCTGGGCTACGGAGAAGGTTAAAGGAAGAGTTATTGAAATCCTCTTAGC
 TGGACCGTCTGGTTCCGGAAGACATCAAGATCCGAGATGCTTATCAGATGCTGAAGAAGCAAGGAATCA
 TAAAGCAAGATCCAAACTACCGATGGATAAAATCTTGCCCCACCGTCTCCCTGGCCGAAGAGCATCTT
 TGATGCTGATGAGGAGAAGTCAAAGCTTCTGACAAGACTTCTCAAGAGTAACCACCTGAGGATCTTCAG
 GCTGCAAACCGGCTGATCAAGAATTTGGTCAAGGAAGAACAAGAGAAGTCTGAAAAGGTGTCCAGGCGAG
 TCAGTGCAGTAGAGGAAGTCCGACGCCAGTGGAGGTGCTTCGGGAGATGCTGAGCATGTACCGAAGGCC
 AGGTATGCCCTGCCGACCGACGAGGCCCTGCAGGTTGTGTATGAAAGATGTGAGAAGCTGAGGCCACCC
 CTGTTCCGGCTTGCAAGCGACACCACTGATGACGACGATGCTCTGGCGGAGATTCTTCAAGCAAATGACC
 TTCTCACACAGGGGTTCCGGCTGTACAACAGGTGGTGGAGGGCCGAGTTAGTGTGGGAACGCAGTGCC
 TGCCGAGTGGGAGCCATCCCGCCCCAGAGCATTCCCGAATCCAGAACCCTGTGGGTTGAACTGTCCA
 CTCATTGACCTGGAGACCCATCTTTGCTTCATCAGGACCTGGCAGCCTTAGGAATCAACGATGTTCCCA
 CTAGGAACCAAGTTGTTATCCGAGTTGCTGTAATGACAAGAAGCAGCCGGGTGCCATCACACTATGGG
 GGGTGGAAATCCAGAGTCTTTCTGCAGACCGGAACCTGCTGGATCTCTTCTCGCCACAGCCATCTCCAGGA
 CTGAATTATGTTCCACAAAAAGCATCCCCAAGGAGGTGCCACCAGGTACCAAGGCCTCTCCAGGTTGGT
 CCTGGGAGGCTGGGCCATTGGCTTCTTCCACAGCCTCACAGAATACACCTCTGGCTCATGTGTTTGTCCC
 TTTGGAGTCTGTGAAACCCAGCAGCTTGCCGCCATTGTCGTGTATGACCGGAATGGCTTCCGAATTCTG
 CTGCACTTCTCCAGACTGGGGCCCTGGCCACCCGGATGTGAAGGTGTTGTTGTTGACCATGATGAGCA
 CTGCCACCAACCTGTCTGGGATGTCATGTTTCAGGTGGCTGTCCCAAAGTCAATGCGAGTGAAGCTGCA
 GCCGCATCCAGCTCAAGCTCCCTGCATTGATCCTTTGATGCCTCCAGCAGTATATCTCAGACGCTG
 TTGCTCGACAACCCACACAAAGAACCTATCCGGTTGCGGTATAAGCTGACTTTCAACCAAGGTGGGCAGC
 CGTTCAGTGAAGTAGGAGAGGTGAAAGACTTTCCAGACCTGGCTGTCTTGAGCACCGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209334 representing NM_028758
 Red=Cloning site Green=Tags(s)

MAATAVAAGTGSPAGTESAEGGPGAAAALWLNKATDPSMAEQDWSAIQKFCEQVNTDPSGPTHAPWLL
 AHKIQSPQEKEALYALTVLEICMNHCGEKFHSEVAKFRFLNELIKVLSPKYLGAWATEKVKGRVIEILFS
 WTVWFPEDIKIRDAYQMLKKQGIKQDPKLPMDKILPPSPWPKSIFFDADEEKSKLLTRLLKSNHPEDLQ
 AANRLIKNLVKEEQEKSEKVSRRVSAVEEVRSVRLREMLSMYRRPGHALPDQQALQVVYERCEKLRPT
 LFRLASDTDDDDALAEILQANDLLTQGVRLYKQVVEGRVSAGNAVPAAVGAIAPRAFNPPEPCGLNCP
 LIDLETPSLLHQDLAALGINDVPTRNQVVIPSCNDKKQPGAITLMGGGIQSLADRNLDDLFSQPSPG
 LNYVYPQKSIKPEVPPGKASPGWSWEAGPLASSTASQNTPLAHVFPLESVKPSLPPIVVYDRNGFRIL
 LHFSQTGAPGHPDVKVLTLTMMSTATQPVWDMFQVAVPKSMRVKLPASSSKLPAFSPMLPPAVISQTL
 LLDNPHKEPIRLRYKLTFNQGGQPFSEVGEVKDFPDLAVLSTA

TRTRPLE – GFP Tag – V

Restriction Sites:

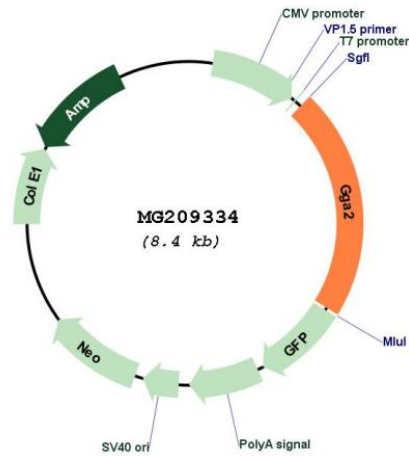
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_028758

ORF Size: 1809 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:	NM_028758.2 , NP_083034.1
RefSeq Size:	4891 bp
RefSeq ORF:	1812 bp
Locus ID:	74105
UniProt ID:	Q6P5E6
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]