

Product datasheet for **MR209334**

Gga2 (NM_028758) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR209334 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCGACGGCAGTGGCAGCGGGGACCGGATCCCCGGCAGGGACCGAGTCGGCGGAGGGCGGCCCTG
 GGCAGCGCGCGCTGGAGCTGTGGCTCAACAAGCCACAGACCAAGCATGGCGGAGCAGGATTGGTC
 AGCCATCCAGAAGTTCTGTGAGCAGGTGAACACCGACCCAGTGGCCCGACACATGCACCCTGGCTACTG
 GCCACAAGATTCACTCCACAGGAGAAGGAAGCCCTTTATGCCCTGACGGTGTGGAGATATGCATGA
 ACCACTGTGGGAGAAGTCCACAGTGAAGTGGCCAAGTCCGCTTCTGAACGAGCTGATCAAAGTATT
 GTCCCCAAGTACCTAGGGGCTGGGCTACGGAGAAGGTTAAAGGAAGAGTTATTGAAATCTCTTAGC
 TGGACCGTCTGGTTCCGGAAGACATCAAGATCCGAGATGCTTATCAGATGCTGAAGAAGCAAGGAATCA
 TAAAGCAAGATCCAAACTACCGATGGATAAAATCTTGCCCCACCGTCTCCCTGGCCGAAGAGCATCTT
 TGATGCTGATGAGGAGAAGTCAAAGCTTCTGACAAGACTTCTCAAGAGTAACCACCTGAGGATCTTCAG
 GCTGCAAACCGGCTGATCAAGAATTTGGTCAAGGAAGAACAAGAGAAGTCTGAAAAGGTGTCCAGGCGAG
 TCAGTGCAGTAGAGGAAGTCCGCAGCCAGTGAAGGTGCTTCGGGAGATGCTGAGCATGTACCGAAGGCC
 AGGTATGCCCTGCCGACCGACGAGGCCCTGCAGGTTGTGTATGAAAAGATGTGAGAAGCTGAGGCCACC
 CTGTTCCGGCTTGCAAGCGACACCAGTATGACGACGATGCTCTGGCGGAGATTCTCAAGCAAATGACC
 TTCTCACACAGGGGTTCCGGCTGTACAACAGGTGGTGGAGGGCCGAGTTAGTGTGGAACGCAGTGCC
 TGCCGAGTGGGAGCCATCCCGCCCCAGAGCATTCCGAATCCAGAACCCTGTGGGTTGAACTGTCCA
 CTCATTGACCTGGAGACGCCATCTTTGCTTCATCAGGACCTGGCAGCCTTAGGAATCAACGATGTTCCCA
 CTAGGAACCAAGTTGTTATCCGAGTTGCTGTAATGACAAGAAGCAGCCGGGTGCCATCACACTCATGGG
 GGGTGAATCCAGAGTCTTTCTGCAGACCGGAACCTGCTGGATCTCTTCGCCACAGCCATCTCCAGGA
 CTGAATTATGTTCCAAAAAAGCATCCCCAAGGAGGTGCCACCAGGTACCAAGGCCTCTCCAGTTGGT
 CCTGGGAGGCTGGGCCATTGGCTTCTTCCACAGCCTCACAGAATACACCTCTGGCTCATGTGTTTGTCCC
 TTTGGAGTCTGTGAAACCCAGCAGCTTGCCGCCATTGTCGTGTATGACCGGAATGGCTCCGAATTCTG
 CTGCATTCTCCAGACTGGGGCCCTGGCCACCCGGATGTGAAGGTGTTGTTGACCATGATGAGCA
 CTGCCACCAACCTGTCTGGGATGTCATGTTTCAGGTGGCTGTCCCAAAGTCAATGCGAGTGAAGCTGCA
 GCCGCATCCAGCTCAAGCTCCCTGCATTGATCCTTTGATGCCTCCAGCAGTATATCTCAGACGCTG
 TTGCTCGACAACCCACAAAAGAACCTATCCGGTTGCGGTATAAGCTGACTTTCAACCAAGTGGGCAGC
 CGTTCAGTGAAGTAGGAGAGGTGAAAGACTTTCCAGACCTGGCTGTCTTGAGCACCGCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209334 protein sequence
 Red=Cloning site Green=Tags(s)

MAATAVAAGTGSPAGTESAEGGPGAAAALWLNKATDPSMAEQDWSAIQKFCEQVNTDPSGPTHAPWLL
 AHKIQSPQEKEALYALTVLEICMNHCGEKFHSEVAKFRFLNELIKVLSPKYLGAWATEKVKGRVIEILFS
 WTVWFPEDIKIRDAYQMLKKQGIKQDPKLPMDKILPPSPWPKSIFFDADEEKSKLLTRLLKSNHPEDLQ
 AANRLIKNLVKEEQEKSEKVSRRVSAVEEVRSHRVLREMLSMYRRPGHALPDQQALQVVYERCEKLRPT
 LFRLASDITDDDDALAEILQANDLLTQGVRLYKQVVEGRVSAGNAVPAAVGAIPAPRAFNPPEPCGLNCP
 LIDLETPSLLHQDLAALGINDVPTRNQVVIPSCCNDKKQPGAITLMGGGIQSLADRNLDLFSPQPSPG
 LNYVPQKSIKPEVPPGKASPGWSWEAGPLASSTASQNTPLAHVFVPLESVKPSLPPIVVYDRNGFRIL
 LHFSQTGAPGHPDVKVLTLTMMSTATQPVWDMFQVAVPKSMRVKLQPASSSKLPAFSPMPPAVLSQTL
 LLDNPHKEPIRLRYKLTFNQGGQPFSEVGEVKDFPDLAVLSTA

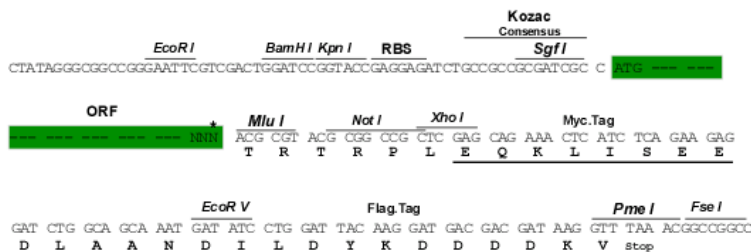
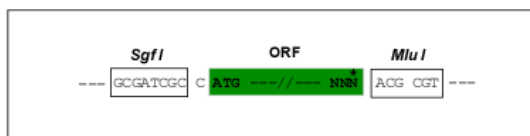
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_028758

ORF Size: 1812 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: [NM_028758.2](#), [NP_083034.1](#)
RefSeq Size: 4891 bp

RefSeq ORF: 1812 bp

Locus ID: 74105

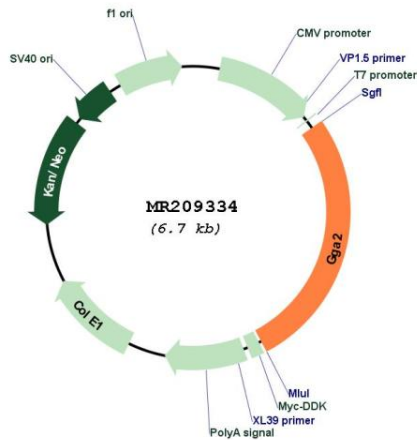
UniProt ID: [Q6P5E6](#)

Cytogenetics: 7 F2

MW: 66 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 MR209334