

## Product datasheet for **MG221006**

### Gatad2a (NM\_145596) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gatad2a (NM_145596) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gatad2a
Synonyms:	1110066C11Rik; BC031407; C80248
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG221006 representing NM\_145596  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGAAGAAGCATGCCGAACCCGAGTCAGAAGCGCACCCCTTGAACCTGACCTAACGGAGGATGATG  
 TGGAGAACAAGAAAATGAAAATGGAGAAAAGGGTTCATCAGAGCTGACAGTGACGGAGACAGCAGGGTGAT  
 GCCAGAGCCGAGTGCAGGCTCAGCCCAGGGTTGCTGAGGACAACAGAGGCCATGGGCACAGGATCTGGC  
 GAGGGGCTGTTAGGAGACGGGCTGTGGACATGCGCACTTACACAGTGACATGAAGTCTGAGAAGAGAC  
 CTCCTCGCTGATGTGATTGTGCTCTCTGACAGTGAGCAGCCATCGAGCCCAAGGGTGAATGGCCTGAC  
 CACAGTAGCCTTGAAAGACACCAGCACTGAGGCGCTCTTGAAAAGCAGCCAGAAGAACGAGAGCGGATG  
 ATCAAGCAGCTGAAGGAGGAGCTGAGGCTAGAGGAAGCAAACCTGGTCTTGTGAAGAAGCTGCGGCAGA  
 GTCAGATACAGAAGGAAGCCACCGCACAGAAGCCTACAGCTTCTCAGGGAGCACTGTGACCACCCCTCC  
 CCCACTCGTGCAGGGTACCCAGAACATTCTGCTGGCAAGACCTCACTTCAGACCTCCTCCACTCGAATA  
 CCCGGCAGCATATCCCACCACCACTGGTCCGAGGTGGGACGAGGTGTCTGCCAAACTGGGACCACAGG  
 CCAGCTCTCAAGTAGTCATGCCACCGCTTGTGAGGGGGGCCAGATTACAACATCAGACAGCATTCTCTC  
 TACGGGGCCACCACCCCTCCTCCTGGCCCCCGTGCCTCAGTGCCAGCATGCAGATTACGGGACAGAGG  
 ATCATCCAGCAGGGACTTATCCGTGTCGCAATGTCCCAACACCAGTCTGCTTGTCAACATCCCTCAGC  
 TACTGCAGCCTCCATGAAGGGGACAGCAGTTGCTTCTGCTCAGGCAAATTCACCTCCACCAGTGTGGC  
 TTCTGTGGTTGCATCTGCTGAGTCTCCAGCTAGCCGACAGGCGGCTGCCAAGCTAGCACTGCGCAAGCAG  
 CTGGAGAAGCACTGCTGGAGATCCCCCACCACAGCCCTGCCCAGAGATGAACTTCTTGCCCAGTG  
 CTGCCAATAATGAGTTTATCTACCTGGTCGGCCTGGAGGAGGTGGTGCAGAACCTGCTGGACACAAG  
 AGGCAGGATTTCTGCCACTGCAGCAGCTGCTGTATTATCCCGGGAGCCCTACATGTGTGTCAGTGTAA  
 ACAGACTTCACATGCCGCTGGCAGAGAGAAGGGTGGAGCCGTTATGTGTGAGAACTGCATGACATCCAACC  
 AAAAGAAGGCACTCAAGGTGGAGCACACCAGTCGCCTGAAGGCCGCTTTGTGAAGGCTCTACAGCAAGA  
 GCAGGAGATGGAGCAGCGCTGCTGCAGCAGGGTGTGGTACCAGCAGCATCAAGGCTGAGCCTGCAGCT  
 CCACATCCACGCTGAAGCAGGTATAAAGCCCCGACGTAAGTTGGCGTCCGCTCAGGAGAGGCCCGTG  
 TCTGGAATAACGGGCTCTACTACAGGCTTCCAGCCAGCTGTCCGAGGCTCGGCCACAGCACCTCGTGG  
 TGTTCTGCACACTTTCAGCCAGTCACCCAACTGCAGAATGCAGCCTCAGCTACGGCCCTGGTAAGCAGG  
 ACTGGCAGACATTCGAGAGAGTCTGGGCACCGCAAGGGCACCGCCTCCAAGTGGAAAAGACGCCTC  
 TGAGCACAGGTGGGACCCTCGCCTTCGTACGCCAAGCTTGGCAGTTACAAGACCTCCTCGGCTGTGGA  
 TCGACAGCGAGAATACCTCCTGGACATGATTCTCCACGCTCCATCCCCAATCAGCCACATGGAAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG221006 representing NM\_145596  
 Red=Cloning site Green=Tags(s)

MSEEA CRTSRQKRTLEPDLTEDDVENKKMKMEKGSSELTVDGDSRVMPEPSAGSAQGLLRTEAMGTGSG  
 EGLLGDGPVDMRTSHSDMKSEKRPPSPDIVLSDSEQPSSPRVNLTTVALKDTSTEALLKSSPEERERM  
 IKQLKEELRLEEAKLVLLKLRQSQIQEATAQKPTASSGSTVTPPPLVRGTQNIIPAGKTSLSSTRI  
 PGSIIPPLVRGGQVS AKLGPQASSQVMPPLVRGAQIHNIRQHSSTGPPPLLLAPRASVPSMQIQGQR  
 IIQQGLIRVANVPNTSLLVNIPQPTAASMKGTAVASQA NSTPTSVASVVASAESPASRQAAAKLALRKQ  
 LEKTLLEIPPPKPPAPEMNFLPSAANNEFIYLVGLEEVVQNLLETQAGRISATAAAAVLSREPYMCVQCK  
 TDFTCRWREKGGAVMCENCMTSNQKALKVEHTSRLKAAFVKALQQEQEMEQRLLQQGVGTASIKAEPA  
 PHPTLKQVIKPRRKLAFRSGEARVWNNGSSLQASSQLSRGSATAPRGVLHTFSQSPKLQNAASATALVSR  
 TGRHSERVVGTGKGTASNWKTPLSTGGTLAFVSPSLAVHKTSSAVDRQREYLLDMIPPRSIPQSATWK

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_145596

**ORF Size:** 1890 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\\_145596.3](#), [NP\\_663571.2](#)

**RefSeq Size:** 5208 bp

**RefSeq ORF:** 1893 bp

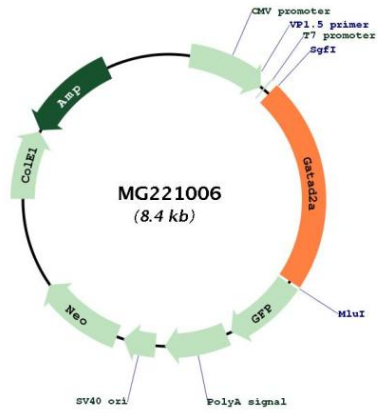
**Locus ID:** 234366

**Cytogenetics:** 8 B3.3

**Gene Summary:**

Transcriptional repressor (By similarity). Enhances MBD2-mediated repression. Efficient repression requires the presence of GATAD2B (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG221006