

Product datasheet for **MG221007**

Gatad2a (NM_001113345) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gatad2a (NM_001113345) 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:

>MG221007 representing NM_001113345
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGAAGAAGCATGCCGAACCCGAGTCAGAAGCGCACCCCTTGAACCTGACCTAACGGAGGATGATG
 TGGAGAACAAGAAAATGAAAATGGAGAAAAGGGTTCATCAGAGCTGACAGTGGACGGAGACAGCAGGGTGAT
 GCCAGAGCCGAGTGCAGGCTCAGCCCAGGGTTGCTGAGGACAACAGAGGCCATGGGCACAGGATCTGGC
 GAGGGGCTGTTAGGAGACGGGCTGTGGACATGCGCACTTACACAGTGCATGAAGTCTGAGAAGAGAC
 CTCCCTCGCTGATGTGATTGTCTCTGACAGTGCAGCCATCGAGCCCAAGGGTGAATGGCCTGAC
 CACAGTAGCCTTGAAAGACACCAGCACTGAGGCGCTCTTGAAAAGCAGCCAGAAGAACGAGAGCGGATG
 ATCAAGCAGCTGAAGGAGGAGCTGAGGCTAGAGGAAGCAAACCTGGTCTTGTGAAGAAGCTGCGGCAGA
 GTCAGATACAGAAGGAAGCCACCGCACAGAAGCCTACAGCTTCTCAGGGAGCACTGTGACCACCCCTCC
 CCCACTCGTGCAGGATCCAGAACATTCTGCTGGCAAGACCTCACTTCAGACCTCCTCCACTCGAATA
 CCCGGCAGCATATCCCACCACCACTGGTCCGAGGTGGGACGAGGTGTCTGCCAAACTGGGACCACAGG
 CCAGCTCTCAAGTAGTCATGCCACCGCTTGTGAGGGGGCCAGATTACAACATCAGACAGCATTCTCTC
 TACGGGGCCACCACCCCTCCTCCTGGCCCCCGTGCCTCAGTGCCAGCATGCAGATTACGGGACAGAGG
 ATCATCCAGCAGGGACTTATCCGTGTCGCAATGTCCCAACACCAGTCTGCTTGTCAACATCCCTCAGC
 CTACTGCAGCCTCCATGAAGGGGACAGCAGTTGCTTCTGCTCAGGCAAATTCACCTCCACCAGTGTGGC
 TTCTGTGGTTGCATCTGCTGAGTCTCCAGCTAGCCGACAGGCGGCTGCCAAGCTAGCACTGCGCAAGCAG
 CTGGAGAAGCACTGCTGGAGATCCCCCACCACAGCCCTGCCCAGAGATGAACTTCTTGCCACAGT
 GTGCCAATAATGAGTTTATCTACCTGGTCCGCTGGAGGAGGTGGTGCAGAACCTGCTGGAGCACAGC
 AGGCAGGATTTCTGCCACTGCAGCAGCTGCTGTTATCCCGGGAGCCCTACATGTGTGTCAGTGTAAAG
 ACAGACTTCACATGCCGCTGGCAGAGAAGGGTGGAGCCGTTATGTGTGAGAACTGCATGCATCCAACC
 AAAAGAAGGCACTCAAGGTGGAGCACACCAGTCGCCTGAAGGCCGCTTTGTGAAGGCTCTACAGCAAGA
 GCAGGAGATGGAGCAGCGCTGCTGCAGCAGGGTGTGGTACCAGCAGCATCAAGGCTGAGCCTGCAGCT
 CCACATCCCACGCTGAAGCAGGTATAAAGCCCCGACGTAAGTTGGCGTCCGCTCAGGAGAGGCCCGTG
 TCTGGAATAACGGGCTCTACTACAGGCTTCCAGCCAGCTGTCCGAGGCTCGGCCACAGCACCTCGTGG
 TGTTCTGCACACTTTCAGCCAGTCACCCAACTGCAGAATGCAGCCTCAGCTACGGCCCTGGTAAGCAGG
 ACTGGCAGACATTCGAGAGAGTCTGGGCACCGCAAGGGCACCGCCTCCAAGTGGAAAAGACGCCTC
 TGAGCACAGGTGGGACCCTCGCCTTCGTACGCCAAGCTTGGCAGTTCACAAGACCTCCTCGGCTGTGGA
 TCGACAGCGAGAATACCTCCTGGACATGATTCTCCACGCTCCATCCCCAATCAGCCACATGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221007 representing NM_001113345
 Red=Cloning site Green=Tags(s)

MSEEA CRTSRQKRTLEPDLTEDDVENKKMKMEKGSSELTVDGDSRVMPEPSAGSAQGLLRTTEAMGTGSG
 EGLLGDGPVDMRTSHSDMKSEKRPPSPDIVLSDSEQPSSPRVNLTTVALKDTSTEALLKSSPEERERM
 IKQLKEELRLEEAKLVLLKLRQSQIQEATAQKPTASSGSTVTPPPLVRGTQNIPIAGKTSLSSTRI
 PGSIIPPLVRGGQVS AKLGPQASSQVMPPLVRGAQIHNIRQHSSTGPPPLLLAPRASVPSMQIQGQR
 IIQQGLIRVANVPNTSLLVNIPQPTAASMKGTAVASQA NSTPTSVASVVASAESPASRQAAAKLALRKQ
 LEKTLLEIPPPKPPAPEMNFLPSAANNEFIYLVGLEEVVQNLLETQAGRISATAAAAVLSREPYMCVQCK
 TDFTCRWREKGGAVMCENCMTSNQKALKVEHTSRLKAAFVKALQQEQEMEQRLLQQGVGTASIKAEPA
 PHPTLKQVIKPRRKLAFRSGEARVWNGSSLQASSQLSRGSATAPRGVLHTFSQSPKLQNAASATALVSR
 TGRHSERVVGTGKGTASNWKTPLSTGGTLAFVSPSLAVHKTSSAVDRQREYLLDMIPPRSIPQSATWK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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_001113345.1 , NP_001106816.1
RefSeq Size:	5205 bp
RefSeq ORF:	1890 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]