

Product datasheet for **MR221007**

Gatad2a (NM_001113345) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gatad2a (NM_001113345) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gatad2a
Synonyms:	1110066C11Rik; BC031407; C80248
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221007 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGAAGAAGCATGCCGAACCCGAGTCAGAAGCGCACCCCTTGAACCTGACCTAACGGAGGATGATG
 TGGAGAACAAGAAAATGAAAATGGAGAAAAGGGTCATCAGAGCTGACAGTGAGCGGAGACAGCAGGGTGAT
 GCCAGAGCCGAGTGCAGGCTCAGCCCAGGGTTGCTGAGGACAACAGAGGCCATGGGCACAGGATCTGGC
 GAGGGGCTGTTAGGAGACGGGCTGTGGACATGCGCACTTACACAGTGACATGAAGTCTGAGAAGAGAC
 CTCCTCGCTGATGTGATTGTGCTCTCTGACAGTGAGCAGCCATCGAGCCCAAGGGTGAATGGCCTGAC
 CACAGTAGCCTTGAAAGACACCAGCACTGAGGCGCTCTTGAAAAGCAGCCAGAAGAACGAGAGCGGATG
 ATCAAGCAGCTGAAGGAGGAGCTGAGGCTAGAGGAAGCAAACCTGGTCTTGTGTAAGAAGCTGCGGCAGA
 GTCAGATACAGAAGGAAGCCACCGCACAGAAGCCTACAGCTTCTCAGGGAGCACTGTGACCACCCCTCC
 CCCACTCGTGCAGGATCCAGAACATTCTGCTGGCAAGACCTCACTTCAGACCTCCTCCACTCGAATA
 CCCGGCAGCATATCCCACCACCACTGGTCCGAGGTGGGCAAGCAGGTGTCTGCCAAACTGGGACCACAGG
 CCAGCTCTCAAGTAGTCATGCCACCGCTTGTGAGGGGGCCAGATTACAACATCAGACAGCATTCTCTC
 TACGGGGCCACCACCCCTCCTCCTGGCCCCCGTGCCTCAGTGCCAGCATGCAGATTACGGGACAGAGG
 ATCATCCAGCAGGGACTTATCCGTGTCGCAATGTCCCAACACCAGTCTGCTTGTCAACATCCCTCAGC
 CTACTGCAGCCTCCATGAAGGGGACAGCAGTTGCTTCTGCTCAGGCAAATTCACCTCCACCAGTGTGGC
 TTCTGTGGTTGCATCTGCTGAGTCTCCAGCTAGCCGACAGGCGGTGCCAAGCTAGCACTGGCAGACACA
 CTGGAGAAGACTGCTGGAGATCCCCCAACCAAGCCCTGCCAGAGATGAACTTCTTGCCAGTG
 TGCCAAATAGAGTTTATCTACCTGGTCGGCCTGGAGGAGGTGGTGCAGAACCTGGGAGACACAAG
 AGGCAGGATTTCTGCCACTGCAGCAGCTGCTGTGTTATCCCGGGAGCCCTACATGTGTGTCAGTGTAA
 ACAGACTTCACATGCCGCTGGCAGAGAGAAGGGTGGAGCCGTTATGTGTGAGAACTGCATGACATCCAAC
 AAAAGAAGGCACTCAAGGTGGAGCACACCAGTCGCCTGAAGGCCGCTTTGTGAAGGCTCTACAGCAAGA
 GCAGGAGATGGAGCAGCGCTGCTGCAGCAGGGTGTGGTACCGCCAGCATCAAGGCTGAGCCTGCAGCT
 CCACATCCACGCTGAAGCAGGTATAAAGCCCCGACGTAAGTTGGCGTCCGCTCAGGAGAGGCCCGTG
 TCTGGAATAACGGGCTCTACTACAGGCTTCCAGCCAGCTGTCCCAGGCTCGGCCACAGCACCTCGTGG
 TGTTCTGCACACTTTCAGCCAGTCACCCAACTGCAGAATGCAGCCTCAGCTACGGCCCTGGTAAGCAGG
 ACTGGCAGACATTCGAGAGAGTCTGGGCACCGCAAGGGCACCGCCTCCAAGTGGAAAAGACGCCTC
 TGAGCACAGGTGGGACCCTCGCCTTCGTAGCCCAAGCTTGGCAGTTCACAAGACCTCCTCGGCTGTGGA
 TCGACAGCGAGAATACCTCCTGGACATGATTCTCCACGCTCCATCCCCAATCAGCCACATGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221007 protein sequence
 Red=Cloning site Green=Tags(s)

MSEACRTRSQRLEPDLTEDDVENKKMKMEKGSSEL TVDGSRVMPPEPSAGSAQGLLRTEAMGTGSG
 EGLLGDGPVDMRTSHSDMKSEKRPPSPDIVLSDSEQPSSPRVNLTTVALKDTSTEALLKSSPEERERM
 IKQLKEELRLEEAKLVLLKLRQSQIQKEATAQKPTASSGSTVTPPPLVRGTQINIPAGKTSLQTSSTRI
 PGSIIPPPLVRGGQVSAKLGPAASSQVMPPLVRGAQIHNIRQHSSTGPPPLLLAPRASVPSMQIQGR
 IIQQGLIRVANVPNTSLLVNIPQPTAASMKGTAVASQANSTPTSVASVVASAESPASRQAAKLRKQ
 LEKTLLEIPPPKPPAPENMFLPSAANNEFIYLVGLEEVVQNLLETQAGRISATAAAAVLSREPYMCVQCK
 TDFTCRWREKGGAVMCENCMTSNQKALKVEHTSRLKAAFVKALQQEQEMEQRL LQQGVGTASIKAEPA
 PHPTLKQVIKPRRKLAFRSGEARVWNNGSSLQASSQLSRGSATAPRGVLHTFSQSPKLNAAASATALVSR
 TGRHSERVVGTGKGTASNWKTPLSTGGTLAFVSPSLAVHKTSSAVDRQREYLLDMIPPRSIPQSATWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001113345

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_001113345.1](#), [NP_001106816.1](#)

RefSeq Size: 5205 bp

RefSeq ORF: 1890 bp

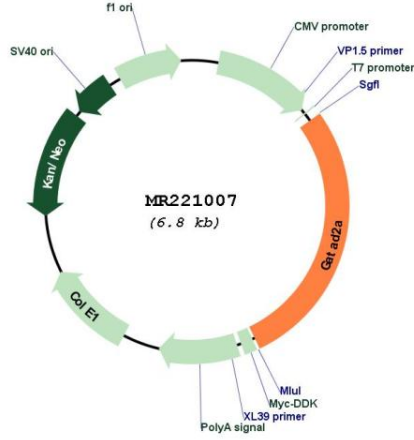
Locus ID: 234366

Cytogenetics: 8 B3.3

MW: 67.3 kDa

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 MR221007