

Product datasheet for **MG209243**

Gad1 (NM_008077) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gad1 (NM_008077) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gad1
Synonyms:	EP1; EP10; Gad-; Gad-1; GAD2; GAD4; GAD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209243 representing NM_008077
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATCTTCCACTCCTTCGCCTGCAACCTCCTCGAACGCGGGAGCGGATCCTAATACTACCAACCTGC
 GCCCTACAACGTATGATACTTGGTGTGGCGTAGCCATGGATGCACCAGAAAAGTGGCCTGAAGATCTG
 TGGCTTCTTACAAAGGACCAATAGCCTGGAAGAGAAGAGTCGTCTTGTGAGCGCCTTCAGGGAGAGGCAG
 TCCTCCAAGAACCTGCTTTCCTGTGAAAACAGTGACCAGGGTGCCCGCTTCGGCGCACAGAGACCGACT
 TCTCCAACCTGTTTGTCAAGATCTGCTCCAGCTAAGAACGGGGAGGAGCAAAGTGCAGTCTTGTCT
 GGAAGTGGTAGACATACTCCTCAACTATGTCCGCAAGACATTTGATCGCTCCACCAAGGTTCTGGATTT
 CACCACCCACACAGTTGCTGGAAGGCATGGAAGGCTTTAATTTGGAGCTGTCTGACCACCCGAGTCTC
 TGGAGCAGATCCTGGTTGACTGTAGAGACACCTGAAGTACGGGGTTCGCACAGGTACCCTCGATTTTT
 CAACCAGCTCTACTGGTTTGATATCATTGGTTTAGCTGGTGAATGGCTGACATCGACTGCCAATACC
 AATATGTTACATATGAAATTGCACCCGTGTTTGTCTCATGGAACAGATTACTCTTAAGAAGATGAGAG
 AGATCGTTGGATGGTCAAATAAAGATGGTATGGGATATTTCTCCTGGGGGAGCCATATCCAATATGTA
 CAGCATCATGGCTGCTCGTTACAAGTACTTCCCAGAAGTGAAGACAAAAGGCATGGCGGCTGTGCCAAA
 CTGGTCTCTTACCTCAGAACACAGTCACTATTCATAAAGAAAAGCCGGGGCTGCGCTTGGCTTTGGAA
 CCGACAATGTGATTTTATAAAGTGAATGAAAGGGGGAAGATAATTCCGGCTGATTTAGAGGCAAAAAT
 TCTTGATGCCAAACAAAAGGGCTATGTTCCCTTTATGTCAATGCAACCCAGGCACGACTGTTTACGGA
 GCATTGATCCAATCCAGGAAATGCGGACATATGTGAGAAATACAACCTTTGGCTGATGTGGATGCTG
 CCTGGGGTGGTGGACTGCTCATGTCCCGAAGCACCGCCACAAAAGTACGGGCATAGAAAGGGCAATTC
 AGTCACCTGGAACCCCTACAAGATGATGGGCGTCTGCTCCAGTCTGCTGCTGCTGCTGCTGCTGCTGCT
 GGTATACTCCAAGGATGCAACCAGATGTGTGCAGGCTACCTCTTCCAGCCAGACAAGCAGTATGACGCT
 CCTATGACACCGGGGACAAGGCGATTAGTGTGGCCGCCATGTGGACATCTTCAAGTTCTGGCTGATGTG
 GAAAGCAAAGGGCACCGTGGGATTTGAAAACAGATCAACAAATGCCTGGAGCTGGCTGATTACCTCTAC
 GCCAAGATTA AAAACAGAGAAGAGTTTGGATGGTTTTTCGATGGTGGAGCTGAGCACACAAATGTCTGT
 TCTGGTACATCCACAAAGCCTTCGAGGGTTCAGATAGCCCTGAGCGACGAGAAAAGTACACAGGGT
 GGCTCCCAAGATCAAAGCTCTGATGATGGAGTCAAGCAACCATGGTGGCTACCAGCCTCAAGGGGAC
 AAGGCCAACTTCTCCGGATGGTATCTCTAACCAGCCGCCACCCAGTCTGACATCGATTTCTCATTG
 AGGAGATAGAGAGTTGGTCTCAGGATCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209243 representing NM_008077
 Red=Cloning site Green=Tags(s)

MASSTPSPATSSNAGADPNTTNRPTTYDTCWGVAHGCTRKLGLKICGFLQRTNSLEEKSRVLSAFRERQ
 SSKNLLSCENSQDQGARFRRTETDFSNLFAQDLLPAKNGEEQTAQFLLEVVDILLNYVRKTFDRSTKVLDF
 HHPHQLLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGVRTGHPFFNQLSTGLDIIIGLAGEWLTSTANT
 NMFITYEIAPVFVLMQITLKKMREIVGWSNKDGDGIFSPGGAISNMYSIMAARYKYFPEVTKGMAAVPK
 LVLFTSESHYSIKKAGAAALGFGTDNVILIKNERGKIIPADLEAKILDAKQKGYVPLYVNATAGTTVYG
 AFDPIQEIADICEKYNLWLHVDAAWGGLLMSRKHHRKLSGIERANSVTWPNHKMMGVLLQCSAILVKEK
 GILQGCNQMCAGYLFQPDQYDVSYDTGDKAIQCGRHVDIFKFWLMWKAKGTVGFENQINKCLELADYLY
 AKIKNREEFEMVFDGEPEHTNVCFWYIPQSLRGVDPSPERREKLHRVAPKIKALMMESGTTMVGYPQGD
 KANFFRMVISNPAATQSDIDFLIEEIERLGQDL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008077

ORF Size: 1779 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_008077.5](#)

RefSeq Size: 3231 bp

RefSeq ORF: 1782 bp

Locus ID: 14415

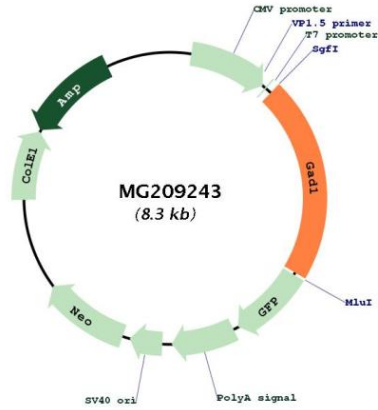
UniProt ID: [P48318](#)

Cytogenetics: 2 41.63 cM

Gene Summary:

The protein encoded by this gene is an enzyme that catalyzes the production of gamma-aminobutyric acid from L-glutamic acid. Alternative splicing of this gene results in two products, the predominant 67 kDa isoform and a smaller 25 kDa isoform. The smaller isoform is not thought to retain catalytic activity. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MG209243