

Product datasheet for **MG201332**

Gadd45a (NM_007836) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gadd45a (NM_007836) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gadd45a
Synonyms: AA545191; Ddit1; GADD45
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201332 representing NM_007836
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTTTGGAGGAATTCTCGGCTGCAGAGCAGAAGACCGAAAGGATGGACACGGTGGGCGATGCCCTGG
 AGGAAGTGCTCAGCAAGGCTCGGAGTCAGCGCACCATTACGGTCGGCGTGTACGAGGCTGCCAAGCTGCT
 CAACGTAGACCCCGATAACGTGGTACTGTGCTGCTGGCTGCTGACGAAGACGACGACCGGGATGTGGCT
 CTGCAGATCCATTTACCCTCATCCGTGCGTTCTGCTGCGAGAACGACATCAACATCCTGCGGGTCAGCA
 ACCCGGGTCGGCTAGCTGAGCTGCTGCTACTGGAGAACGACGCGGGCCCGCGGAGAGCGGGGGCGCCGC
 GCAGACCCCGGACCTGCACTGTGTGCTGGTGACGAACCCACATTCATCACAATGGAAGGATCCTGCCTTA
 AGTCAACTTATTTGTTTTGCCGGAAAGTCGCTACATGGATCAGTGGTGCCCGTGATTAATCTCCCGG
 AACGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201332 representing NM_007836
 Red=Cloning site Green=Tags(s)

MTLEEFSAAEQKTERMDTVGDALEEVLSKARSQRTITVGVYEAALKLLNVDPNVVLCLLAAEDDDDRDVA
 LQIHFTLIRAFCCENDINILRVSNPGRLAELLLLENDAGPAESGGAAQTPDLHCVLVTNPHSSQWKDPAL
 SQLICFCRESRYMDQWVPVINLPER

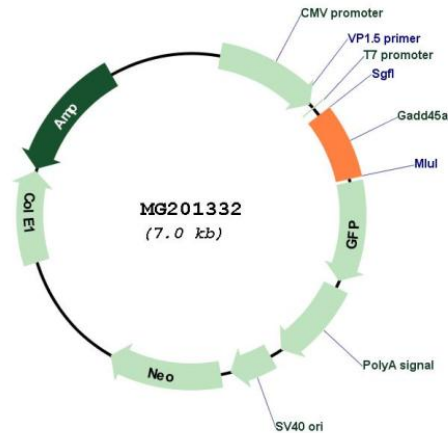
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:

Plasmid Map:


ACCN: NM_007836

ORF Size: 495 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:	<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:	<u>NM_007836.1</u> , <u>NP_031862.1</u>
RefSeq Size:	1224 bp
RefSeq ORF:	498 bp
Locus ID:	13197
UniProt ID:	<u>P48316</u>
Cytogenetics:	6 C1
Gene Summary:	Might affect PCNA interaction with some CDK (cell division protein kinase) complexes; stimulates DNA excision repair in vitro and inhibits entry of cells into S phase. In T-cells, functions as a regulator of p38 MAPKs by inhibiting p88 phosphorylation and activity. [UniProtKB/Swiss-Prot Function]