

Product datasheet for MR201332

Gadd45a (NM_007836) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gadd45a (NM_007836) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gadd45a
Synonyms: AA545191; Ddit1; GADD45
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201332 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTTGGAGGAATTCTCGGCTGCAGAGCAGAAGACCGAAAGGATGGACACGGTGGGCGATGCCCTGG
AGGAAGTGCTCAGCAAGGCTCGGAGTCAGCGCACCATACGGTCGGCGTGTACGAGGCTGCCAAGCTGCT
CAACGTAGACCCCGATAACGTGGTACTGTGCTGCTGGCTGCTGACGAAGACGACGACCGGGATGTGGCT
CTGCAGATCCATTCACCCTCATCCGTGCGTTCTGCTGCGAGAACGACATCAACATCCTGCGGGTCAGCA
ACCCGGGTCGGCTAGCTGAGCTGCTGCTACTGGAGAACGACGCGGGCCCGCGGAGAGCGGGGGCGCCGC
GCAGACCCCGGACCTGCACTGTGTGCTGGTGACGAACCCACATTCATCACAATGGAAGGATCCTGCCTTA
AGTCAACTTATTTGTTTTGCCGGGAAAGTCGCTACATGGATCAGTGGTGCCCGTGATTAATCTCCCGG
AACGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201332 protein sequence
Red=Cloning site Green=Tags(s)
MTLEEFSAAEQKTERMDTVGDAL EEVLSKARSQRTITVGVYEA AKLLNVDPNVVLCLLAAEDDDRDVA
LQIHFTLIRAFCCENDINILRVSNPGR LAELLLLENDAGPAESGGAAQTPDLHCVLVTNPHSSQWKDPAL
SQLICFCRESRYMDQWVPVINLPER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_007836

ORF Size: 498 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_007836.1](#), [NP_031862.1](#)

RefSeq Size: 1224 bp

RefSeq ORF: 498 bp

Locus ID: 13197

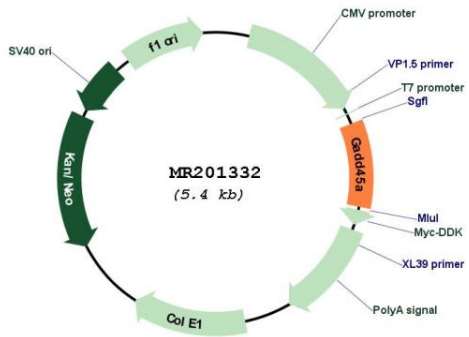
UniProt ID: [P48316](#)

Cytogenetics: 6 C1

MW: 18.3 kDa

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]

Product images:



Circular map for MR201332