

## **Product datasheet for RC213354**

## GADD45B (NM 015675) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** GADD45B (NM\_015675) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: GADD45B

Synonyms: GADD45BETA; MYD118

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC213354 representing NM\_015675

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

 ${\color{blue} \textbf{ACGCGT}} \textbf{ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT}$ 

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC213354 representing NM\_015675

Red=Cloning site Green=Tags(s)

MTLEELVACDNAAQKMQTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLAIDEEEEDDIA LQIHFTLIQSFCCDNDINIVRVSGNARLAQLLGEPAETQGTTEARDLHCLPFLQNPHTDAWKSHGLVEVA

SYCEESRGNNQWVPYISLQER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6037 f01.zip



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

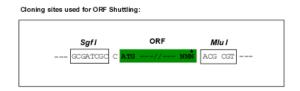
CN: techsupport@origene.cn

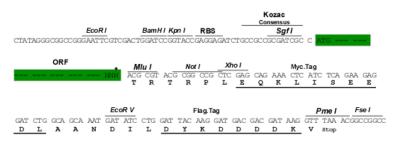
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_015675

ORF Size: 483 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: <u>NM 015675.1</u>, <u>NP 056490.1</u>

RefSeq Size: 1121 bp RefSeq ORF: 483 bp Locus ID: 4616



 UniProt ID:
 O75293

 Cytogenetics:
 19p13.3

**Domains:** Ribosomal\_L7Ae

**Protein Families:** Druggable Genome

**Protein Pathways:** Cell cycle, MAPK signaling pathway, p53 signaling pathway

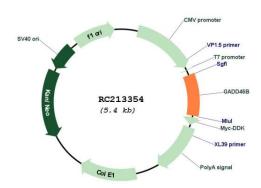
**MW:** 17.6 kDa

**Gene Summary:** This gene is a member of a group of genes whose transcript levels are increased following

stressful growth arrest conditions and treatment with DNA-damaging agents. The genes in this group respond to environmental stresses by mediating activation of the p38/JNK pathway. This activation is mediated via their proteins binding and activating MTK1/MEKK4 kinase, which is an upstream activator of both p38 and JNK MAPKs. The function of these genes or their protein products is involved in the regulation of growth and apoptosis. These genes are regulated by different mechanisms, but they are often coordinately expressed and

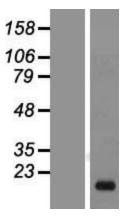
can function cooperatively in inhibiting cell growth. [provided by RefSeq, Jul 2008]

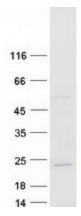
## **Product images:**



Circular map for RC213354







Western blot validation of overexpression lysate (Cat# [LY414404]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213354 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified GADD45B protein (Cat# [TP313354]). The protein was produced from HEK293T cells transfected with GADD45B cDNA clone (Cat# RC213354) using MegaTran 2.0 (Cat# [TT210002]).