

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

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



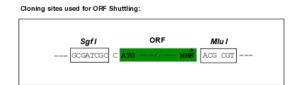
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

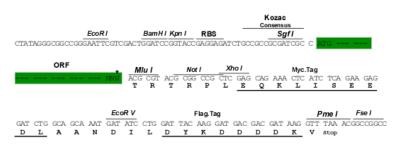
CN: techsupport@origene.cn

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

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 015675.1</u>, <u>NP 056490.1</u>

RefSeq Size: 1121 bp RefSeq ORF: 483 bp



Locus ID: 4616

UniProt ID: <u>075293</u>

Cytogenetics: 19p13.3

Domains: Ribosomal_L7Ae

Protein Families: Druggable Genome

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

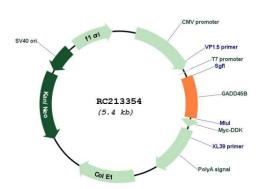
MW: 17.6 kDa

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

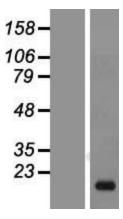
can function cooperatively in inhibiting cell growth. [provided by RefSeq, Jul 2008]

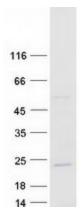
Product images:



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]).