

Product datasheet for RG201364

GADD45G (NM 006705) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: GADD45G (NM_006705) Human Tagged ORF Clone

Tag: TurboGFP Symbol: GADD45G

Synonyms: CR6; DDIT2; GADD45gamma; GRP17

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG201364 representing NM_006705

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACTCTGGAAGAAGTCCGCGGCCAGGACACAGTTCCGGAAAGCACAGCCAGGATGCAGGGTGCCGGGAAAGCGCTGCATGAGTTGCTGCTGTCGGCGCAGCGTCAGGGCTCCCCCACTGCCGCGCTCTACGAGTCAGCCAAAGTCTTGAACGTGGACCCCGACAATGTGACCTTCTGTGTGCTGCGGGTGAGGAGGACGAGGGCGACATCGCGCTGCAGATCCATTTTACGCTGATCCAGGCTTTCTGCTGCGAGAACGACATCGACATAGTGCGCGTGGGCGATGTGCAGCGGGCTGGCGGCTATCGTGGGCGCGCGAGGAGGCGGGTGCGCCGGGCGACCTGCACTCCTCATTTCGAACCCCAACGAGGACGCCTGGAAGGATCCCCCTTGGAGAAGCTCAGCCTG

TTTTGCGAGGAGAGCCGCAGCGTTAACGACTGGGTGCCCAGCATCACCCTCCCCGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201364 representing NM_006705

Red=Cloning site Green=Tags(s)

MTLEEVRGQDTVPESTARMQGAGKALHELLLSAQRQGCLTAGVYESAKVLNVDPDNVTFCVLAAGEEDEG DIALQIHFTLIQAFCCENDIDIVRVGDVQRLAAIVGAGEEAGAPGDLHCILISNPNEDAWKDPALEKLSL

FCEESRSVNDWVPSITLPE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



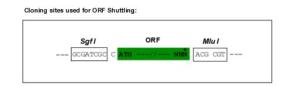
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

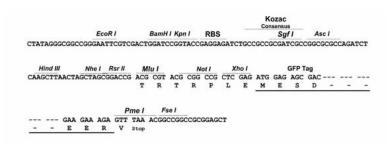
CN: techsupport@origene.cn

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



Cloning Scheme:





ACCN: NM_006705

ORF Size: 477 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 006705.4</u>

 RefSeq Size:
 1078 bp

 RefSeq ORF:
 480 bp

 Locus ID:
 10912

 UniProt ID:
 095257



Cytogenetics: 9q22.2

Domains: Ribosomal_L7Ae

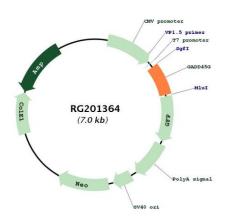
Protein Pathways: Cell cycle, MAPK signaling pathway, p53 signaling pathway

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 protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The GADD45G is highly expressed in placenta.

[provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201364