

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201364 representing NM_006705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTCTGGAAGAAGTCCGCGGCCAGGACACAGTTCGGAAAGCACAGCCAGGATGCAGGGTGCCGGGA
 AAGCGTGCATGAGTTGCTGCTGTCGGCGCAGCGTCAGGGCTGCCTCACTGCCGGCGTCTACGAGTCAGC
 CAAAGTCTTGAACGTGGACCCCGACAATGTGACCTTCTGTGTGCTGGCTGCGGGTGAGGAGGACGAGGGC
 GACATCGCGCTGCAGATCCATTTACGCTGATCCAGGCTTCTGCTGCGAGAACGACATCGACATAGTGC
 GCGTGGGCGATGTGCAGCGGCTGGCGGCTATCGTGGGCGCGGCGAGGAGCGGGTGCGCCGGGCGACCT
 GCACTGCATCCTCATTTGAAACCCAACGAGGACGCTGGAAGGATCCCGCCTTGGAAGAAGCTCAGCCTG
 TTTTGCAGGAGAGCCGACGCTTAACGACTGGGTGCCAGCATCACCTCCCGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201364 representing NM_006705
 Red=Cloning site Green=Tags(s)

MTLEEVRGQDTVPESTARMQGAGKALHELLLSAQRQGCLTAGVYESAKVLNVDPDNVTFCVLAAGEEDEG
 DIALQIHFTLIQAFCCENDIDIVRVGDVQRLAAIVGAGEEAGAPGDLHCILISNPNEAWKDPALAKLSL
 FCEESRSVNDWVPSITLPE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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: [NM_006705.4](#)

RefSeq Size: 1078 bp

RefSeq ORF: 480 bp

Locus ID: 10912

UniProt ID: [O95257](#)

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