

## Product datasheet for **RG231752**

### **GADD45A (NM\_001199741) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GADD45A (NM\_001199741) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** GADD45A  
**Synonyms:** DDIT1; GADD45  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231752 representing NM\_001199741  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTTTGGAGGAATTCTCGGCTGGAGAGCAGAAGACCGAAAGCGACCCCGATAACGTGGTGTGTGCC  
TGCTGGCGGGGACGAGGACGACGACAGAGATGTGGCTCTGCAGATCCACTTCACCCTGATCCAGGCGTT  
TTGCTGCGAGAACGACATCAACATCCTGCGGTCAGCAACCCGGGCCGGCTGGCGGAGCTCCTGCTTTG  
GAGACCGACGCTGGCCCCGCGGAGCGAGGGCGCCGAGCAGCCCCGGACCTGCACTGCGTGCTGGTGA  
CGAATCCACATTCATCTCAATGGAAGGATCCTGCCTTAAGTCAACTTATTGTTTTGCCGGAAAGTCG  
CTACATGGATCAATGGGTTCCAGTGATTAATCTCCCTGAACGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231752 representing NM\_001199741  
**Red**=Cloning site **Green**=Tags(s)  
MTLEEFSAEQKTESDPDNVVLCLLADEDDDRDVALQIHFTLIQAFCCENDINILRVSNPGRLLAELLLL  
ETDAGPAASEGAEQPPDLHCVLVTNPSSQWKDPALSQILCFRESRYMDQWVPVINLPER

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001199741.2</a>
<b>RefSeq Size:</b>	1296 bp
<b>RefSeq ORF:</b>	396 bp
<b>Locus ID:</b>	1647
<b>UniProt ID:</b>	<a href="#">P24522</a>
<b>Cytogenetics:</b>	1p31.3
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Cell cycle, MAPK signaling pathway, p53 signaling pathway
<b>Gene Summary:</b>	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 DNA damage-induced transcription of this gene is mediated by both p53-dependent and -independent mechanisms. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.[provided by RefSeq, Dec 2010]