

Product datasheet for **RC231752**

GADD45A (NM_001199741) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GADD45A (NM_001199741) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GADD45A
Synonyms: DDIT1; GADD45
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231752 representing NM_001199741
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACTTTGGAGGAATTCTCGGCTGGAGAGCAGAAGACCGAAAGCGACCCCGATAACGTGGTGTGTGCC
TGCTGGCGGGACGAGGACGACGACAGAGATGTGGCTCTGCAGATCCACTTCACCCTGATCCAGGCGTT
TTGCTGCGAGAACGACATCAACATCCTGCGCGTCAGCAACCCGGGCGGCTGGCGGAGCTCTGCTCTTG
GAGACCGACGCTGGCCCCGCGGCGAGCGAGGGCGCCGAGCAGCCCCGGACCTGCACTGCGTGCTGGTGA
CGAATCCACATTCATCTCAATGGAAGGATCCTGCCTTAAGTCAACTTATTGTTTTTGCCGGAAAGTCG
CTACATGGATCAATGGTTCCAGTGATTAATCTCCCTGAACGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231752 representing NM_001199741
Red=Cloning site Green=Tags(s)
MTLEEFSAEQKTESDPDNVVLCLLAEDDDDRDVALQIHFTLIQAFCCENDINILRVSNPGRRLAELLLL
ETDAGPAASEGAEQPPDLHCVLVTNPHSSQWKDPALSQLICFCRESRYMDQWVPVINLPER

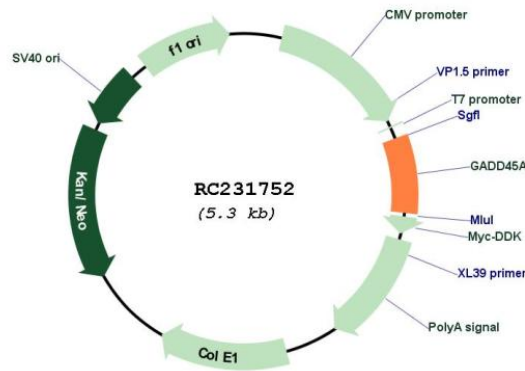
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001199741

ORF Size: 393 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:	<ol style="list-style-type: none">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_001199741.2
RefSeq Size:	1296 bp
RefSeq ORF:	396 bp
Locus ID:	1647
UniProt ID:	P24522
Cytogenetics:	1p31.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Cell cycle, MAPK signaling pathway, p53 signaling pathway
MW:	15.1 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 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]