

Product datasheet for RC204005

GADD45A (NM_001924) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

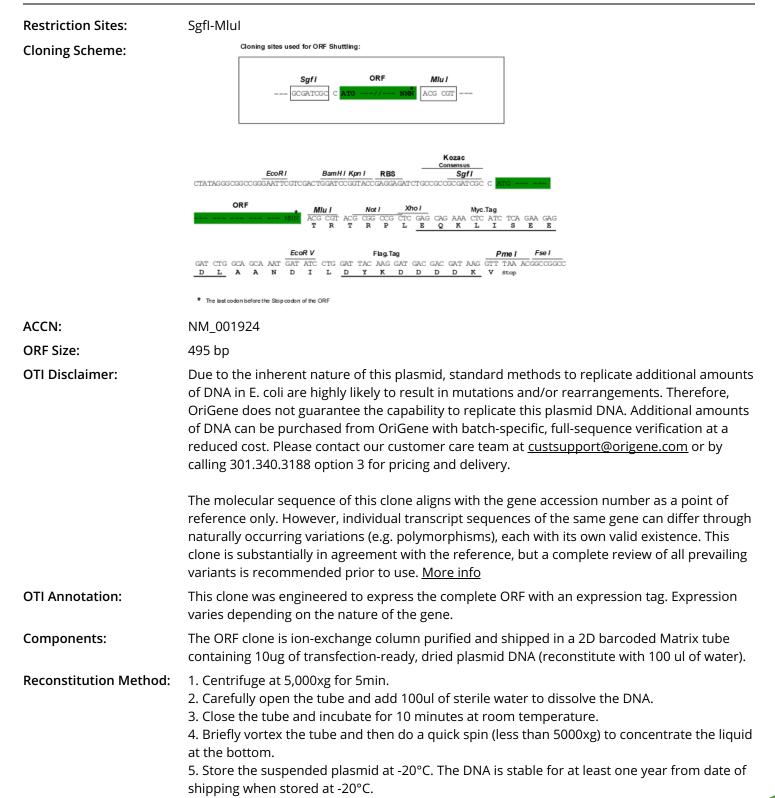
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	GADD45A (NM_001924) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GADD45A
Synonyms:	DDIT1; GADD45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC204005 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACTTTGGAGGAATTCTCGGCTGGAGAGAGAGAGAAGACCGAAAGGATGGAT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC204005 protein sequence <mark>Red=</mark> Cloning site Green=Tags(s)
	MTLEEFSAGEQKTERMDKVGDALEEVLSKALSQRTITVGVYEAAKLLNVDPDNVVLCLLAADEDDDRDVA LQIHFTLIQAFCCENDINILRVSNPGRLAELLLLETDAGPAASEGAEQPPDLHCVLVTNPHSSQWKDPAL SQLICFCRESRYMDQWVPVINLPER
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6058_f03.zip



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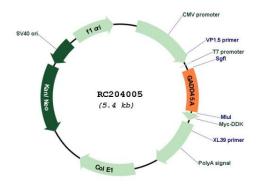
GADD45A (NM_001924) Human Tagged ORF Clone – RC204005



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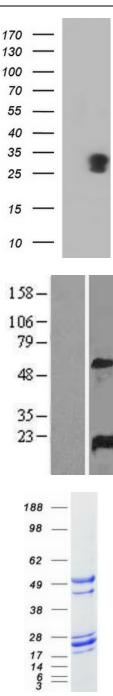
	GADD45A (NM_001924) Human Tagged ORF Clone – RC204005
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 001924.4</u>
RefSeq Size:	1398 bp
RefSeq ORF:	498 bp
Locus ID:	1647
UniProt ID:	<u>P24522</u>
Cytogenetics:	1p31.3
Domains:	Ribosomal_L7Ae
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathway	s: Cell cycle, MAPK signaling pathway, p53 signaling pathway
MW:	18.3 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]

Product images:



Circular map for RC204005

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GADD45A (Cat# RC204005, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GADD45A (Cat# [TA507370]). Positive lysates [LY419659] (100ug) and [LC419659] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY419659]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204005 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified GADD45A protein (Cat# [TP304005]). The protein was produced from HEK293T cells transfected with GADD45A cDNA clone (Cat# RC204005) using MegaTran 2.0 (Cat# [TT210002]).

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