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Product datasheet for RC201364

GADD45G (NM_006705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GADD45G
Synonyms:	CR6; DDIT2; GADD45gamma; GRP17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201364 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTCTGGAAGAAGTCCGCGGCCAGGACACAGTTCCGGAAAGCACAGCCAGGATGCAGGGTGCCGGGA
AAGCGCTGCATGAGTTGCTGCTGTCGGCGCAGCGTCAGGGCTGCCTCACTGCCGGCGTCTACGAGTCAGC
CAAAGTCTTGAACGTGGACCCCGACAATGTGACCTTCTGTGTGCTGGCTGCGGGTGAGGAGGACGAGGGC
GACATCGCGCTGCAGATCCATTTTACGCTGATCCAGGCTTTCTGCTGCGAGAACGACATCGACATAGTGC
GCGTGGGCGATGTGCAGCGGCTGGCGGCTATCGTGGGCGCCGGCGAGGAGGCGGGTGCGCCGGGCGACCT
GCACTGCATCCTCATTTCGAACCCCAACGAGGACGCCTGGAAGGATCCCGCCTTGGAGAAGCTCAGCCTG
TTTTGCGAGGAGAGCCGCAGCGTTAACGACTGGGTGCCCAGCATCACCCTCCCCGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201364 protein sequence
Red=Cloning site Green=Tags(s)

MTLEEVRGQDTVPESTARMQGAGKALHELLLSAQRQGCLTAGVYESAKVLNVDPDNVTFCVLAAGEEDEG
DIALQIHFTLIQAFCCENDIDIVRVGDVQRLAAIVGAGEEAGAPGDLHCILISNPNEDAWKDPALEKLSL
FCEESRSVNDWVPSITLPE

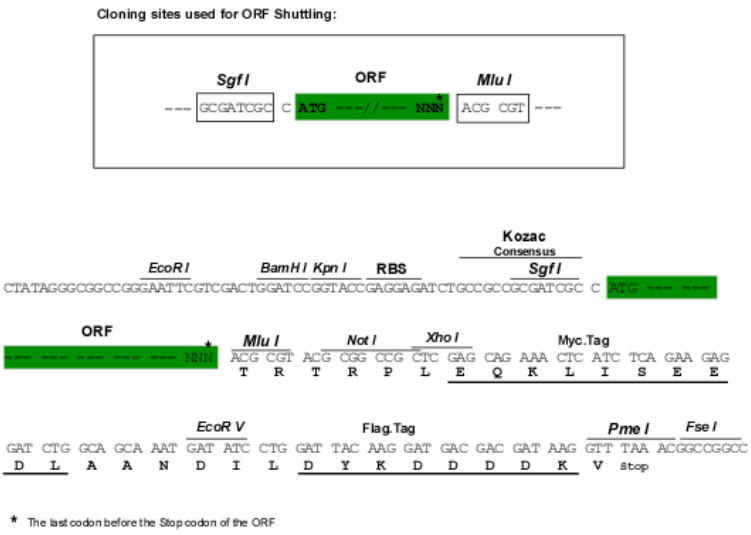
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6419_e05.zip

Restriction Sites: SgfI-MluI

View online »

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006705.4
RefSeq Size:	1087 bp
RefSeq ORF:	480 bp
Locus ID:	10912

UniProt ID: O95257

Cytogenetics: 9q22.2

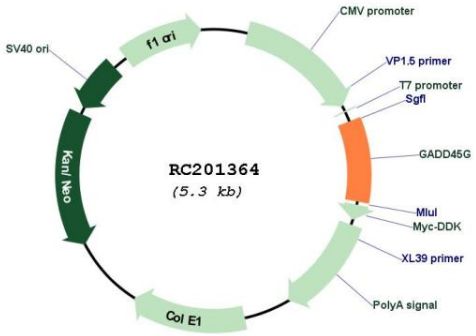
Domains: Ribosomal_L7Ae

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

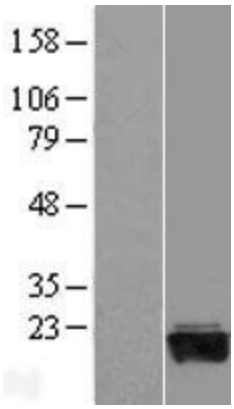
MW: 17.1 kDa

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 GADD45G is highly expressed in placenta. [provided by RefSeq, Jul 2008]

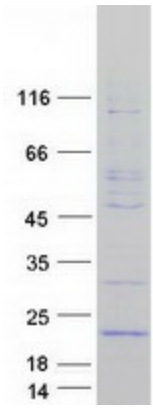
Product images:



Circular map for RC201364



Western blot validation of overexpression lysate (Cat# [LY416476]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201364 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GADD45G protein (Cat# [TP301364]). The protein was produced from HEK293T cells transfected with GADD45G cDNA clone (Cat# RC201364) using MegaTran 2.0 (Cat# [TT210002]).