

Product datasheet for **SC114608**

GADD45B (NM_015675) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GADD45B (NM_015675) Human Untagged Clone
Tag:	Tag Free
Symbol:	GADD45B
Synonyms:	GADD45BETA; MYD118
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114608 sequence for NM_015675 edited (data generated by NextGen Sequencing)

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ATGACGCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCAGACGGTGACC
GCCGCGGTGGAGGAGCTTTTGGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGTG
TACGAGTCGGCCAAGTTGATGAATGTGGACCCAGACAGCGTGGTCTCTGCCTCTTGCC
ATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAAATCCAATTACGCTCATCCAGTCC
TTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTGCGGCATGCAGCGCCTGGCGCAG
CTCCTGGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTC
CTGGTCACGAACCCTCACACGGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGC
TACTGCGAAGAAAGCCGGGCAACAACCAGTGGGTCCCCTACATCTCTTTCAGGAACGC
TGA
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Clone variation with respect to NM_015675.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015675 unedited
 NGGGCACCATTTGTATACGACTCCTATAGGCGGCCGNGAATTCGCACGAGGGTCGGACT
 ACCGTTGGTTTCCGCAACTTCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTTC
 CGCCTTTTCTGGAAGGATTTTCGCTGCTTCCCGAAGGCTTGGACGAGCGCTCTAGCTCTG
 TGGGAAGTTTTGGGCTCTCTGGCTCGGATTTTGAATTTCTCCCTGGGGACTGCCGTGG
 AGCCGCATCCACTGTGGATTATAATTGCAACATGACGCTGGAAGAGCTCGTGGCGTCCGA
 CAACGCGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTTGGTGGCCGC
 TCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGA
 CCCAGACAGCGTGGTCTCTGCCTCTTGGCCATTGACGAGGAGGAGGATGACATCGC
 CCTGCAAATCCACTTCACGCTCATCCAGTCTTCTGCTGTGACAACGACATCAACATCGT
 GCGGGTGTGGGCATGCAGCGCTGGCGCAGCTCTGNGAGAGCCGGCCGAGACCCAGGG
 CACCACCGAGGCCGAGACCTGCATTGTCTCTGGTACGAACCCTCACACGGACGCTG
 GAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGCAAACACCA
 GTNGTCCCTACATCTCTTTCAGGAACGCTNGAGCCCTNCCAGCAGCAGAATCTGTT
 GAGTTGCTGCCACAACCAAAAACATAATATTTTTGGACCCCTTCCCCCAGCCAACC
 CCCCCAAAACACCACCCACGAGACATCGNGGCANAGTCNTGGAGACTGAANAGAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015675 unedited
 GCAATCTAGTATCGAGTNNNTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTGAGGCTTTAAAAATTTATTACAAGGCCCTCTAGTAGAAATAAAAAAT
 ATAGATTTCTATGCTTCCCATCTCGCTCTCAGGGGTGGAATAACAAGTGAAGGAACAA
 AATAAATTGGCTCTATAATTCGAAACTGGGAGTTCATGGGTACAGAACAACCTCAGCCC
 CAGCTCCCAAGTCCCAAAGTGGGTCTTGTGAGGGGGCAAACAAGGGCCAACCAAGTTC
 AACCAAGTCTTTGTATGCAAACCCAGCTCCAGTCTTAAGGAGGGGGGGCTTGACGTC
 AATCTCACTCCACCCCGAGTGGACAGTCTGGACCCTCCCTGATGGGAAAGCGGNATCG
 TGCCCCCCTACTCCGGTTTTGGTCCATCCCAAGGCTCAACTTTGGGGTCTGTCTCC
 TGCTGGCTGGTCCCCCTTTTCCATCGGATCGGCGCCGCCAACTCCTGGATCTCCGC
 CCTGGGGGCGGGCGCTCACTCCCCTTTTCTCTCTCTTTTCTCTTAAGACTCCAACGAC
 TTTGGCCCCGATAGTCTCTGGTTGGTTGTTTTGGGGAGTTGTGCCTGGGGGGGAGA
 GGGCTTTCCCCCCCCCCCCCTCTCCCTCCCCCTCTCTCTTTCATTTCCCTCCTC
 CTCTCTCCACGCTTTTCCCCCTCTATCTCCCTCTTCCCGCCCCGACCTCTTCTC
 TTTCTCTCTCGTTTCCCTCACTCTCTCGCCCTTGTGTTGGCCTACCTCGTGCCCTC
 TTTGTTTCTTCTCTTTCCCTCCACCCTATCCCTCACCTTCTTATTCTCTCTATCC
 TCCACACCCGCTCCCTCCCTTTCTACTGTTACTCCTGTATCCTCGTATCCATCCCC
 CCAACTCTGCTCTCTGTTCTTTCTATTCTCCCTCTCTACACCGCTTCCAATCT
 C

Restriction Sites:

NotI-NotI

ACCN:

NM_015675

Insert Size:

1420 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_015675.1 , NP_056490.1
RefSeq Size:	1121 bp
RefSeq ORF:	486 bp
Locus ID:	4616
UniProt ID:	O75293
Cytogenetics:	19p13.3
Domains:	Ribosomal_L7Ae
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, MAPK signaling pathway, p53 signaling pathway
Gene Summary:	<p>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 genes in this group respond to environmental stresses by mediating activation of the p38/JNK pathway. This activation is mediated via their proteins binding and activating MTK1/MEKK4 kinase, which is an upstream activator of both p38 and JNK MAPKs. The function of these genes or their protein products is involved in the regulation of growth and apoptosis. These genes are regulated by different mechanisms, but they are often coordinately expressed and can function cooperatively in inhibiting cell growth. [provided by RefSeq, Jul 2008]</p>