

Product datasheet for SC118947

GADD45A (NM_001924) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GADD45A (NM_001924) Human Untagged Clone
Tag:	Tag Free
Symbol:	GADD45A
Synonyms:	DDIT1; GADD45
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001924 edited
 GAATTCGGCACGAGGGGCTGGGAGGCAGCGGCCCAATTAGTGTCTGCGGCCCGTGGCGA
 GGCGAGGTCCGGGAGCGAGCGAGCAAGCAAGGCGGGAGGGGTGGCCGGAGCTGCGCGG
 CTGGCACAGGAGGAGAGCCCGGCGGGCGAGGGGCGGCCGGAGAGCGCCAGGGCCTGAG
 CTGCCGGAGCGGCGCCTGTGAGTGAGTGCAAAAAGCAGGCGCCCGCGCTAGCCGTGGC
 AGGAGCAGCCCGCAGCCGCGCTCTCTCCCTGGGCGACCTGCAGTTTGCAATATGACTTT
 GGAGGAATTCTCGGCTGGAGAGCAGAAGACCGAAAGGATGGATAAGGTGGGGGATGCCCT
 GGAGGAAGTGCTCAGCAAAGCCCTGAGTCAGCGCACGATCACTGTGGGGTGTACGAAGC
 GGCCAAGTGTCTCAACGTGACCCCGATAACGTGGTGTGTGCCCTGCTGGCGGCGGACGA
 GGACGACGACAGAGATGTGGCTCTGCAGATCCACTTACCCTGATCCAGGCGTTTTGCTG
 CGAGAACGACATCAACATCCTGCGCGTCAGCAACCCGGGCGGCTGGCGGAGCTCCTGCT
 CTTGGAGACCGACGCTGGCCCGCGGCGAGCGAGGGCGCCGAGCAGCCCCGGACCTGCA
 CTGCGTGTCTGGTACGAATCCACATTCATCTCAATGGAAGGATCCTGCCTTAAGTCAACT
 TATTTGTTTTTGGCGGAAAGTGCCTACATGGATCAATGGGTTCCAGTGATTAATCTCCC
 TGAACGGTGTGGCATCTGAATGAAAAAATACTGAACCAAAATTGCACTGAAGTTTTTGAAA
 TACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGATTACAGAACTGA
 TGCCAAGGGGCTGAGTGAGTTCAACTACATGTTCTGGGGGCCCGGAGATAGATGACTTTG
 CAGATGGAAAGAGGTGAAAATGAAGAAGGAAGCTGTGTTGAAACGAAAAATAAGTCAAA
 AGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACATGTATTAATTTAGAATGGT
 TGAGTTACATTAATAATAAACCAATATGTTAAAGTTTAAGTGTGCAGCCATAGTTTGGGT
 ATTTTTGTTTTATATGCCTCAAGTAAAAGAAAAGCCGAAAGGGTTAATCATATTTGAAA
 ACCATATTTTATGATTTTGTAGATATTAATTTCTCAAAGTTTTATTATAAATTTCTA
 CTAAGTTATTTTATGACATGAAAAGTTATTTATGCTATAAATTTTTTGAACACAATACC
 TACAATAAACTGGTATGAATAATTGCAAAAAAAAAAAAAAAAAAACTCGAC



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001924 unedited</p> <pre> TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTGGGAGGCAGCG GCCCAATTAGTGTCTGTCGGCCCGTGGCGAGGCGAGGTCCGGGGAGCGAGCGAGCAAGCA AGGCGGGAGGGGTGGCCGGAGCTGCGGCGGCTGGCACAGGAGGAGGCCGGGCGGGCG AGGGGCGCCGGAGAGCGCCAGGGCCTGAGCTGCCGGAGCGGCGCCTGTGAGTGAAGTCA GAAAGCAGGCGCCCGCGCGCTAGCCGTGGCAGGAGCAGCCCGCACGCCGCGCTCTCTCCC TGGGCGACTGCAGTTTGAATATGACTTTGGAGGAATTCTCGGCTGGAGAGCACAAAGAC CGAAAGGATGGATAAGGTGGGGGATGCCCTGGAGGAAGTCTCAGCAAAGCCCTGAGTCA GCGCACGATCACTGTCGGGGTGTACGAAGCGGCCAAGCTGCTCAACGTCGACCCCGATAA CGTGGTGTGTGCTGCTGGCGGCGGACGAGGACGACGACAGAGATGTGGCTCTGCAGAT CCACTTACCCTGATCCAGGCGTTTTGCTGCGAGAACGACCATAAACATCCTGCGCGTCA GCAACCCGGGGCCGGCTGGCGGAGCTCCTGCTCTAGAAGACCCGACGCTGGCCCCCGCGG CGAGCGAAGGGCGCCGAGCAGCCCCGGACCTGCCCTGCGTGTGGTACGAATCCCAT TTCTCCTCATGGAAGGGATCCTCGCCTTAGTGCACCTTATTTGTTTTTCCGGGAAAGT TCGTTCCATGGACAATTGGGGCCCCAGGGATTATCNTCCCTGGACCGGGGAGGCCATTT GGAAGGAAAATACCTGACCCACATTGCCCGGAGTTTTTGGAAAACCTTTGGAAGTTACT TAACCCGTTCTCCCTCCCTGTAGGCAAGGATAACAGTAACC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001924 unedited</p> <pre> TCCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTGGCAATTATTCATACCAG TTTATTGTAGGTATTGTGTTTCAAAAAATTATAGCATAAATAACTTTTCATGCATAAAA TAACCTAGTAGAATTTATAATAAACTTTGAGAATTTAATATCTCATCAAAATACAATAA AATATGGTTTTCAAATATGATTAACCCTTTCGGCTTTTCTTTTACTTGAGGGCATATAAA CCAAAAATACCCAAACTATGGCTGCACACTTAACTTTAACATATTTGGTTTATTTTAAT GTAACCAACCATTCTAAATTAATACATAGTTTTCTTCTGCTGATGGTTCTTTGTAATTT TTGTTCTTTTGACTTATTTTTCTGTTTCAACACAGCTTCTTCTTCAATTTTACCTCTT TCCATCTGCAAAGTCATCTATCTCCGGGCCCCAGAACATGTAGTTGAACTCACTCAGCC CCTTGGCATCAGTTTCTGTAATCCTTGCATCAGTGTAGGGAGTAACTGCTTGAGTAACTA CAAAGGTATTTCAAAAATTCAGTGCAATTTGGCTCAGTATTTTCAATCAGATGCCATC ACCGTTACAGGGAGATTAATCACTGGAACCCATTGATCCATGTAGCGACTTCCCGGCAAA AACCAATAAGTTGACTTAAGGCAGGATCCTTTTCATTGAGATGAATGTGGATTTCGTACCA ACAGCCAATGCAGGTCCCGGGGGCTGCTTCGCGCCCTCGCTCGNCGCGGGGTGAGCGGTG GTCTCCAAGACAAGAGCTCCGCCGCCGGCCGGTTGCTGACGCGCAGAAGTTCATGCCCT TTTGCACAAAAGCCGGATAAGGTGAGTGGTATTGCAAACCACATTTGTTGCGGCCTTGT CGCCGCCGAGGACACACCCCGTATTGGGGCCACTTTAGCACTTGCCCGTTGTCACCCCG AACGGGACGGCCCGGACCAGGGTTTGTGCCCTCTN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001924
Insert Size:	1360 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:	<u>NM_001924.2, NP_001915.1</u>
RefSeq Size:	1355 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 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 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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>