

## Product datasheet for **SC115922**

### **GADD45G (NM\_006705) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GADD45G (NM_006705) Human Untagged Clone
Tag:	Tag Free
Symbol:	GADD45G
Synonyms:	CR6; DDIT2; GADD45gamma; GRP17
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115922 sequence for NM_006705 edited (data generated by NextGen Sequencing)

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ATGACTCTGGAAGAAGTCCGCGCCAGGACACAGTTCCGAAAGCACAGCCAGGATGCAG
GGTGCCGGGAAAGCGCTGCATGAGTTGCTGCTGTCGGCGCAGCGTCAGGGCTGCCTCACT
GCCGGCGTCTACGAGTCAGCCAAAGTCTTGAACGTGGACCCCGACAATGTGACCTTCTGT
GTGCTGGCTGCGGGTGAGGAGGACGAGGGCGACATCGCGCTGCAGATCCATTTTACGCTG
ATCCAGGCTTTCTGCTGCGAGAACGACATCGACATAGTGC CGTGGGCGATGTGCAGCGG
CTGGCGGCTATCGTGGGCGCCGGCGAGGAGGGTGCGCCGGGCGACCTGCACTGCATC
CTCATTTTGAACCCCAACGAGGACGCCTGGAAGGATCCCGCCTTGGAGAAGCTCAGCCTG
TTTTGCGAGGAGAGCCGAGCGTAAACGACTGGGTGCCAGCATACCCTCCCCGAGTGA
```

Clone variation with respect to NM\_006705.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006705 unedited  CAAACCCAATTCGCACGAGGTGGGCGCGCGTGTGAGCTCTGGCTGTCACTGTGTTTCGC  CCGCGTCCCCTCCGCGCTCTCCGCTTGTGGATAACTAGCTGTGGTTGATCGCACTATGA  CTCTGGAAGAAGTCCGCGGCCAGGACACAGTTCGGAAAGCACAGCCAGGATGCAGGGTG  CTTGAAAGCGCTGCATGAGTTGCTGTGTGCGCGCAGCGTCAGGGTGCCTCACTGCCG  GCGTCTACGAGTCAGCCAAAGTCTTGAACGTGGACCCGACAATGTGACCTTCTGTGTGC  TGGCTGCGGGTGAGGAGGACGAGGGCGACATCGCGCTGCAGATCCATTTTACGCTGATCC  AGGCTTTCTGCTGCGAGAACGACATCGACATAGTGCCTGGGCGATGTGCAGCGGCTGG  CGGCTATCGTGGGCGCCGCGAGGAGGGTGCGCCGGGCGACCTGCACTGCATCCTCA  TTTTCAACCCCAACGAGGACGCCTGGAAGGATCCCGCCTTGGAGAAGCTCAGCCTGTTTT  GCGAGGAGAGCCGAGCGTTAACGACTGGGTGCCAGCATCACCTCCCCGAGTGACAGC  CCGCGGGGACCTTGGTCTGATCGACGTGGTGACGCCCGGGGCGCTAGAGCGCGGCTG  GCTCTGTGGAGGGGCCCTCCGAGGGTCCCGAGTGCAGCGTGGAGACTGGCANGCGGNGG  GGGCGCTGGAGAGCGAGGAGGCGCGCCTCCCGAGGAGGGGCCCGTGGCNGCAGGGCC  ANGCTGGTCCGAGCTGNAGACTCTGCAAGTGTCTGGAGCGGCTGCTCGCCAGGAAGGCC  TAGCTAAGACGTTGGCCCTCAGGCCAG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006705 unedited  GCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTGTTCAAAAAGTTTATT  GTAAAATTCAAACTTCAACAGCAGCATCCTTTAAAAACGAAGCATTGCCCGGATCCGT  TTTGAAAAGCAGCGCAGTCGGCTAAGTCCTTACGCTCCTGCAACTGTACCAAGTCCAG  GGCGCCGCTCCTTCTGCGAGCGCAGGCTGCTGAGTCACGCCTGCCCGCCAGTCTGTC  CTTCTGGCCCTGAGGCCAACGTCTAACCTAGGCCTTCTGGGGAGCAGCCGCTCCAG  ACACTTGCAGAGTCTCAGCTCGGACCAGCCTGGCCCTGCCGCCACCGGGCCCCTCCTCG  GGAGGCCGCGCCTCCTCGCTCTCCAGGGCCCCCCCCCGCCTGCCAGTCTCCACGCCGCAC  TCGGGCACCTCGGAGGGCCCTCCACAGAGCCAGCCGCGCTCTAGGCGCCCCGGGGCGT  CACCACGTCGATCAGACCAAGGTCCCCGCGGGCTGTCACTCGGGGAGGGTGATGCTGGG  CACCCAGTCGTTAACGCTGCGGCTCTCCTCGCAAAACAGGCTGAGCTTCTCAAGCGGG  ATCCTTCCAGGCGTCTCGTTGGGGTTCGAAATGAGGATGCAGTGCAGGTGCGCCGGNGC  ACCCGCTTCTCGCCGGNGCCACGATAGCCGNCAGCCGCTGCACATCGCCACGCGCAC  TATGTCGATGTCGNTCTCGCAGCAGAAGCCTGGATCAGCGTAAATGGATCTGCAGCGCGA  TGTGNCCTTGTNCTTCTCACCCGAGNCAGACACAGAAGTACATTGGCCGGGTCCAGT  TCAAGACTTTGCTGACTCGTAAACCCCGCAGTGAAGCAACCTGACGCTGGGCGAAGNAGA  ACTATGCAGNGCTTNCGGNACCTGATNCTGGTA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006705
<b>Insert Size:</b>	1140 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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.

**RefSeq:** [NM\\_006705.2](#), [NP\\_006696.1](#)

**RefSeq Size:** 1078 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

**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]