

## Product datasheet for **RR212955**

### Gad1 (NM\_017007) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gad1 (NM_017007) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gad1
Synonyms:	Gad67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR212955 representing NM\_017007  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCATCTTCCACGCCCTTCGCCTGCAACCTCCTCGAACGCGGGAGCGGATCCTAATACTACCAACCTGC  
 GCCTACAACATATGATACTTGGTGTGGCGTAGCCCATGGATGCACCAGAAAACCTGGGCCTGAAGATCTG  
 TGGTTTCTTGCAAAGGACCAATAGCCTGGAAGAGAAGAGTCGTCTTGTGAGCGCCTTCAGGGAGAGGCAG  
 GCCTCAAAGAACCTGCTTTCCTGTGAAAACAGTGACCCTGGTGCCCGCTTCGGCGCACAGAGACGGACT  
 TCTCAAACCTGTTTGCTCAAGATCTGCTCCAGCTAAGAACGGGGAGGAGCAAACGTGCAGTTCTTACT  
 GGAGGTGGTTGACATACTCCTCAACTATGTCCGCAAGACGTTTGATCGCTCCACCAAGGTTTTGGACTTC  
 CACCACCCACACCAGTTGCTGGAAGGCATGGAAGGTTTTAATTTGGAGCTGTCTGACCACCCCGAGTCTC  
 TGGAGCAGATCCTGGTTGACTGTAGAGACACCCTAAAGTACGGGGTTCGCACAGGTACCCTCGTTTTT  
 CAACCAGCTCTACTGGTTTGATATCATTGGTTTTAGCTGGCGAATGGCTGACATCAACTGCCAATACC  
 AATATGTTACATATGAAATGCACCCGTGTTTGTCTTATGGAACAGATCACACTTAAGAAGATGCGAG  
 AGATCATTGGATGGTCAAATAAAGATGGTATGGGATATTTCTCCTGGGGGAGCCATATCCAACATGTA  
 CAGCATCATGGCGGCTCGGTACAAGTACTTCCAGAAGTAAAACAAAAGGCATGGCGGCTGTGCCAAA  
 CTGGTCTCTTCACTCAGAACACAGTCACTATTCATAAAGAAGGCTGGGGCTGCGCTTGGCTTTGGAA  
 CTGACAATGTGATCCTGATAAAGTGAATGAAAGGGGGAAGATAATTCCAGCTGATTTAGAGGCAAAAAT  
 TCTTGATGCCAAACAAAAGGGATTTGTTCCCTTTATGTCAATGCAACCCAGGCACGACTGTTTATGGA  
 CGGTTTGCATCCGATCCAGGAGATTGCAGACATATGTGAGAAATACAACCTTTGGCTGCATGTGGATGCTG  
 CCTGGGGTGGTGGGCTGCTCATGTCCCGAAGCATCGCCACAAAACCTCAGCGGCATAGAAAGGGCCAATC  
 AGTCACCTGGAACCCCTACAAGATGATGGGTGTGCTGCTCCAGTGTCTGCCATCCTGGTCAAGGAAAAG  
 GGTATACTCCAAGGATGCAACCAGATGTGTGCAGGCTACCTCTCCAGCCAGACAAGCAGTATGACGTCT  
 CCTACGATACAGGGGACAAGGCGATTCACTGTGGCCGCCATGTGGACATCTCAAGTTCTGGCTGATGTG  
 GAAAGCAAAGGGCACTGTGGATTTGAAAATCAGATCAACAAATGCCTGGAGCTGGCTGAATACCTCTAT  
 GCCAAGATTA AAAACAGAGAAGAGTTTGGATGGTTTTCAATGGTGGCTGAGCACACAATGTCTGTT  
 TCTGGTACATACCACAAAGCCTCCGAGGGTTCAGACAGCCCTGAGCGACGAGAAAACTACACAGGGT  
 GGCTCCCAAGATCAAAGCCCTGATGATGGAGTCAGGAACAACCATGGTTGGTTACCAGCCTCAAGGGGAC  
 AAGGCCAACTTCTCCGGATGGTATCTCCAACCCAGCCGCCACCAGTCTGACATCGATTTCTCATCG  
 AGGAAATAGAGAGTTGGGTCAAGATCTG

**ACGCGT**ACGCGGCGGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212955 representing NM\_017007  
 Red=Cloning site Green=Tags(s)

MASSTPSPATSSNAGADPNTTTLRPTTYDTCWGVAHGCTRKLGLKICGFLQRTNSLEEKSRSLVSAFRERQ  
 ASKNLLSCENSDPGARFRRETDFSNLFAQDLLPAKNGEEQTVQFLLEVDILLNRYRKTDFDRSTKVLDF  
 HHPHQLLEGMGFNLELSDHPESLEQILVDCRDTLKYGVRTGHPRFNQLSTGLDIIGLAGEWLTSTANT  
 NMFITYE IAPVFLMEQITLKKMREIIGWSNKDGDGIFSPGGAISNMYSIMAAARYKYFPEVKTKGMAAVPK  
 LVLFTSESHYSIKKAGAALGFGTDNVILIKCNERGKIIPADLEAKILDAKQKGFVPLYVNATAGTTVYG  
 AFDPIQEIADICEKYNLWLHVDAAWGGGLLSMRKHRHKLSGIERANSVTWNPMMGVLLQCSAILVKEK  
 GILQGCNQMCAGYLFQPKQYDVSYDTGDKAIQCGRHVDIFKFWLMWKAKGTVGFENQINKCLELAEYLY  
 AKIKNREEFEMVFNGEPEHTNVCFWYIPQSLRGPDSPPERREKLHRVAPKIKALMMESGTTMVGYPQGD  
 KANFFRMVISNPAATQSDIDFLIEEIERLQDL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_017007

**ORF Size:** 1779 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.

**RefSeq:** [NM\\_017007.1](#), [NP\\_058703.1](#)

**RefSeq Size:** 3216 bp

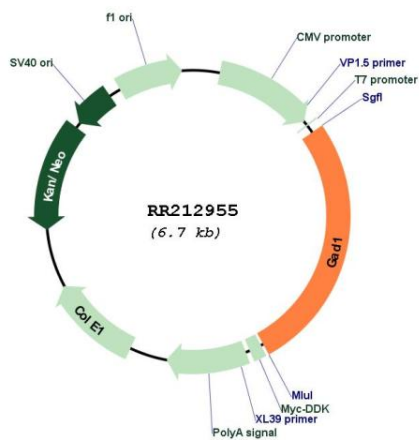
**RefSeq ORF:** 1782 bp

**Locus ID:** 24379

**UniProt ID:** [P18088](#)

Cytogenetics: 3q22  
 MW: 66.6 kDa  
 Gene Summary: plays a role in the biosynthesis of gamma-aminobutyric acid [RGD, Feb 2006]

**Product images:**



Circular map for RR212955