

Product datasheet for **RN211126**

Gad2 (NM_012563) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gad2 (NM_012563) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gad2
Synonyms:	gad65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN211126 representing NM_012563
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCATCTCCGGCTCTGGCTTTTGGTCCTTCGGATCTGAAGATGGCTCTGGGGATCTGAGAACCCGG
GAACAGCGAGAGCCTGGTGCCAGGTGGCCAAAAGTTCACGGGCGGCATCGGAAACAAGCTATGCGCTCT
GCTCTACGGAGACTCTGAGAAGCCAGCAGAGAGCGGCGGAGCGTGACCTCGCGGCCGCCACTCGGAAG
GTCGCCTGCACCTGTGACCAAAAACCTGCAGCTGCCCAAAAGGAGATGTCAATTATGCACTTCTCCACG
CAACAGACCTGCTGCCAGCCTGTGAAGGAGAAAGGCCACTCTCGCATTCTGCAAGATGTAATGAACAT
TTTGCTTCAGTACGTGGTAAAAGTTTTGATAGATCAACTAAAGTGATTGATTTCCATTACCCCAATGAG
CTTCTTCAAGAGTATAATTGGGAATTGGCAGACCAACCGCAAAATCTGGAGGAAATTTTGACGCACTGCC
AAACAACCTCTAAAATATGCGATTAACAGGGCATCCCCGATATTTAATCAGCTGTCTACCGGATTGGA
TATGGTTGGATTAGCAGCAGATTGGTTGACATCAACAGCAAACACGAACATGTTTACCTATGAGATCGCC
CCTGTATTTGACTACTGGAATATGTGACACTAAAGAAAATGAGGGAAATCATTGGCTGGCCAGGAGGCT
CTGGCGATGGAATCTTTCTCCTGGTGGTGCCATCTCAAACATGTACGCCATGCTCATTGCCCGCTATAA
GATGTTTTCCAGAAGTCAAGGAAAAGGGATGGCGGCGGTGCCAGGCTCATCGCATTACGTCAGAGCAT
AGTCACTTTTCTCTCAAGAAGGGAGCTGCAGCCTTGGGGATCGGAACAGACAGCGTGATTCTGATTAAT
GTGATGAGAGAGGGAAAATGATCCCATCTGACCTTGAAGAAGAATCCTTGAAGTCAAACAGAAAGGATT
TGTTCCCTTCTGGTGTGAGTGCACAGCTGGAACCACTGTGTACGGGGCTTTTGATCCCTCTTTGGCTGTA
GCTGACATCTGCAAAAAATAAGATCTGGATGCATGTGGATGCTGCTTGGGGTGGAGGGTTACTGATGT
CTCGGAAACACAAGTGAAGCTGAACGGTGTGGAGAGGGCCAACCTGTGACATGGAATCCCCACAAGT
GATGGGTGTCCCCTTGCAATGTTTCGGCTCTCCTGGTCAGAGAGGAGGGACTGATGCAGAGCTGCAACCAG
ATGCATGCTTCTACCTCTTTCAGCAAGATAAGCACTATGACCTGTCTATGACACGGGAGACAAGGCTT
TGCAGTGTGGACGCCACGTGATGTCTTTAAATTATGGCTCATGTGGAGAGCAAAGGGGACTACTGGATT
TGAAGCTCACATTGATAAGTGTGGAGCTGGCAGAGATTTTATAACAATATCATTAAAAACCGAGAAGGA
TATGAAATGGTGTTCGATGGGAAGCCTCAGCACACAAATGTCTGCTTCTGGTTTGTACCTCCTAGTTTGC
GAGTCTGGAAGACAATGAAGAGAGAATGAGCCGCTCTCAAAGGTGGCGCCAGTGATTAAGCCAGAAT
GATGGAGTATGGGACCACAATGGTCAGTACCAACCTTAGGAGATAAGGTCAACTTCTCCGCATGGTC
ATCTCAAACCCTGCAGCAACTACCAAGACATTGACTTCTCATTGAAGAAATCGAACGCCTGGGACAAG
ATTTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2050_d04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_012563

Insert Size: 1758 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_012563.1](#), [NP_036695.1](#)

RefSeq Size: 1966 bp

RefSeq ORF: 1758 bp

Locus ID: 24380

UniProt ID: [Q05683](#)

Cytogenetics: 17q12.3

Gene Summary: catalyzes synthesis of gamma-Aminobutyric acid (GABA), the most widely distributed inhibitory neurotransmitter [RGD, Feb 2006]