

Product datasheet for **RN215683**

Glud1 (NM_012570) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glud1 (NM_012570) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Glud1
Synonyms:	Ac2-281; Gdh1; Glud; Gludeha; MRG-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN215683 representing NM_012570
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTACCGCGTCTGGGCGAAGTCTGCTACTGTCCCGCGCCGGCCCGTGCCTGGGCTCTCGGCTG
 CAGACTCAGCCGCACTGCTGGGCTGGGCTCGCGGACAACCCTCTGCTGTCCCGCAACCCGGGCTCAGGCC
 GGTCCGCAAGCGCCACTACAGCGAAGCGGCCACCGACCGGAAGACGACCCCAACTTCTTCAAGATGGTG
 GAGGGTCTCTCGACCGCGCCAGCATCGTGGAGGACAAGCTGGTGAAGACCTGAAGACCCGGGAGA
 ACGAGGAGCAGAAGCGGAACCGAGTGCAGCGCATCCTGCGGATCATCAAGCCTTGAACCATGTGTTGAG
 CCTCTCCTTCCCATCCGGCGGACGACGGCTCCTGGGAGGTATCGAAGGCTACCGGGCCAGCACAGC
 CAGCACCAGCGCCCTGCAAGGGAGGTATCCGGTACAGCACTGACGTGAGTGGATGAGGTGAAGCGC
 TGGCGTCCCTAATGACCTACAAGTGTGAGTGGTGTGATGTGCCATTTGGAGGTGCTAAAGCAGCGTTAA
 GATCAATCCCAAGAACTATACAGATAATGAATTAGAAAAGATTACACGAAGATTCACCATGGAGCTGGCA
 AAGAAGGGTTTTATTGGTCTGGCATTGATGTGCCTGCCCGAGACATGAGCACGGGCGAGCGGGAGATGT
 CCTGGATCGCTGACACCTATGCCAGCACCATAGGGCACTATGATATCAATGCACACGCTGTGCTACTGG
 TAAACCCATCAGCCAAGGAGGCATCCACGGACGCATCTCCGCTACTGGCCGGGTGTTTTTCATGGGATT
 GAGAAGTTCATCAATGAAGTTCCTACATGAGCATCTTAGGGATGACCCCGGGCTTGGCGATAAGACGT
 TTGTTGTTGTTGAGGATTTGGTAATGTGGGCTGCACTCTATGAGATATTTACATCGTTTTGGTGCTAAGTG
 TGTTGGTGTGGAGAATCTGATGGGAGTATATGGAATCCAGATGGTATTGACCCAAAAGAACTGGAAGAT
 TTCAAGTTGCAACATGGATCAATTCTGGGCTTCCCAAAGCCAAGGTCTATGAAGGAAGCATCTTGGAGG
 CTGACTCGCAGATTTTAATTCTGCAGCCAGCAGAGAAGCAGTTGACCAAATCCAATGCACCCAGAGTCAA
 AGCCAAGATCATTGCTGAAGGAGCCAATGGCCCAACCACTCCAGAGGCCGATAAGATTTTTCTAGAAAGA
 AACATCATGGTTATTCCAGATCTCTACCTGAATGCTGGAGGAGTGACAGTATCTTACTTTGAGTGGCTAA
 AGAATCTAAATCACGTCAGCTATGGCCGATTGACCTTCAAATATGAAAGGGACTCGAACTACCACTTGCT
 CATGTCCGTTCAAGAGAGTTTAGAGAGAAAGTTTGGAAAGCACGGCGGGACTATCCCTGTGGTCCCCACA
 GCAGAGTCCAGGACAGAATATCGGGTGCATCTGAGAAAGACATCGTGCCTCTGGCTTGGCCTACACAA
 TGGAGCGATCTGCCAGGCAAATTATGCGCACAGCCATGAAGTATAACCTGGGATTGGACCTGAGAACAGC
 TGCTACGTCAATGCCATTGAGAAAGTCTTCAAGGTGTACAATGAGGCTGGCGTGACCTTACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2092_d05.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_012570

Insert Size: 1677 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_012570.1](#), [NP_036702.1](#)

RefSeq Size: 2998 bp

RefSeq ORF: 1677 bp

Locus ID: 24399

UniProt ID: [P10860](#)

Cytogenetics: 16p15

Gene Summary: catalyzes the oxidative deamination of 1-glutamate to 2-oxoglutarate and may be a candidate memory-related gene [RGD, Feb 2006]