EMPOWER YOUR RESEARCH
OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com techsupport@origene.com

## Product datasheet for MC218945

## Glud1 (NM_008133) Mouse Untagged Clone

## Product data:

## Product Type: <br> Expression Plasmids

Product Name:
Tag:
Symbol:
Glud1 (NM_008133) Mouse Untagged Clone

Synonyms:
Tag Free
Glud1

Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin ( $25 \mathrm{ug} / \mathrm{mL}$ )

Cell Selection: Neomycin

Fully Sequenced ORF:
>MC218945 representing NM_008133
Red=Cloning site Blue=ORF Orange=Stop codon
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

ATGTACCGCCGTCTGGGCGAAGCGCTGCTGCTGTCCCGCGCCGGGCCCGCTGCCCTGGGCTCTGCGGCTG CAGACTCAGCCGCGCTGCTGGGCTGGGCCCGCGGACAGCCCTCCGCCGCCCCGCAACCCGGGCTCACGCC GGTCGCCCGGCGCCACTACAGCGAAGCGGCCGCCGACCGCGAAGACGACCCCAACTTCTTCAAGATGGTG GAGGGCTTCTTCGACCGCGGCGCCAGCATCGTAGAGGACAAGCTGGTGGAAGACCTGAAGACCCGGGAGA GCGAGGAGCAGAAGCGGAACCGGGTGCGCGGCATCCTGAGGATCATCAAGCCCTGCAACCATGTGTTGAG CCTCTCCTTCCCCATCCGGCGCGACGACGGCTCCTGGGAGGTCATCGAAGGCTACCGGGCCCAGCACAGC CAGCACCGCACGCCCTGCAAGGGAGGTATCCGTTACAGCACTGACGTGAGTGTGGATGAAGTAAAAGCAC TGGCTTCCTTAATGACATACAAGTGCGCTGTGGTCGATGTACCGTTTGGAGGTGCTAAAGCAGGCGTTAA GATCAACCCCAAGAACTATACAGATAATGAATTAGAAAAAATTACACGGAGGTTCACTATGGAGCTGGCC AAGAAGGGTTTTATTGGTCCTGGCATTGATGTGCCTGCCCCAGACATGAGCACGGGTGAGCGGGAGATGT CCTGGATCGCTGACACCTATGCCAGCACCATAGGGCACTATGATATCAATGCGCATGCCTGTGTTACTGG GAAACCCATCAGTCAAGGAGGCATCCACGGGCGCATCTCCGCTACTGGCCGGGGTGTCTTCCATGGAATT GAAAACTTCATCAATGAGGCTTCTTACATGAGCATTTTTAGGAATGACACCAGGCTTTGGCGATAAGACAT TTGTTGTTCAGGGATTTGGTAATGTGGGCCTGCACTCTATGAGATATTTACATCGTTTTGGTGCTAAATG TGTTGGTGTTGGAGAGTCTGATGGGAGTATATGGAATCCGGATGGGATTGACCCAAAAGAACTGGAAGAC TTCAAGTTGCAACATGGATCAATTCTGGGCTTCCCCAAAGCCAAGGTCTATGAAGGAAGCATCTTGGAGG CTGACTGTGACATTCTGATTCCTGCCGCCAGCGAGAAGCAGTTGACCAAATCCAATGCACCCAGAGTCAA AGCCAAGATCATTGCTGAAGGTGCCAATGGGCCAACCACTCCAGAGGCTGATAAGATTTTCCTGGAAAGA AACATCATGGTTATTCCCGATCTCTACTTAAATGCTGGAGGAGTAACAGTGTCTTACTTTGAGTGGCTAA AGAATCTAAATCATGTCAGCTACGGCCGATTGACCTTCAAATATGAAAGGGACTCTAACTACCACTTGCT CATGTCTGTTCAAGAGAGTTTAGAGAGAAAGTTTGGAAAGCATGGTGGAACTATTCCTGTGGTCCCCACA GCAGAGTTCCAGGACAGGATATCGGGTGCATCTGAGAAAGACATTGTGCACTCTGGCTTGGCCTACACAA TGGAGAGATCTGCCAGGCAAATTATGCGCACAGCCATGAAGTATAACCTGGGATTGGACCTGAGAACAGC TGCCTATGTCAATGCTATCGAGAAAGTCTTCAAGGTGTACAATGAAGCTGGTGTGACCTTCACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

| Restriction Sites: | Sgfl-Mlul |
| :--- | :--- |
| ACCN: | NM_008133 |
| Insert Size: | 1677 bp |

## OTI Disclaimer:

Components:

Reconstitution Method: 1. Centrifuge at 5,000xg for 5 min .
2. Carefully open the tube and add 100 ul 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 $-20^{\circ} \mathrm{C}$. The DNA is stable for at least one year from date of shipping when stored at $-20^{\circ} \mathrm{C}$.
RefSeq: NM 008133.4 NP 032159.1
RefSeq Size: 3158 bp
RefSeq ORF: $\quad 1677$ bp
Locus ID: 14661
UniProt ID: $\underline{\text { P26443 }}$
Cytogenetics: $\quad 1420.8$ cM
Gene Summary:
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

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).

Mitochondrial glutamate dehydrogenase that converts L-glutamate into alpha-ketoglutarate. Plays a key role in glutamine anaplerosis by producing alpha-ketoglutarate, an important intermediate in the tricarboxylic acid cycle. May be involved in learning and memory reactions by increasing the turnover of the excitatory neurotransmitter glutamate. [UniProtKB/Swiss-Prot Function]

