

Product datasheet for **MR229959**

Gcdh (NM_008097) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcdh (NM_008097) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcdh
Synonyms:	9030411L18; A1266902; D17825; GCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR229959 representing NM_008097
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTCTCTGCAATGCTCACCGCTACATGTCCCTGAGAGGAGTCTCCGCGGGTTGCTGAGCCGAGGT
 CCGGCCTGCGCTTCCCGGTTTTCCACGTACCTGGAGCTCGGCGGCCGCCACACCGAGAAGACACAGAT
 CCGACCGGCCAAATCCTCTCGCCCCGTGTTGACTGGAAGGACCACTCATACTGGAGGAGCAGCTGACT
 GCCGATGAGAAACTGATCAGGGACACCTCCGTAACACTGCCAGGAGCGGCTTATGTCTCGAATTCTGC
 TGGCTAATCGAAATGAAGTTTTTACAGGGACATTGTGTATGAGATGGGGGAGCTGGGCGTGTGGGACC
 CACCATTAAGGGTATGGCTGTGCTGGTGTGTCGTCGGTGGCCTATGGGCTCCTGACCCGAGAGCTTGAG
 AGGGTGGACAGTGGCTACAGGTCGATGATGAGTGTTCAGTCTCCCTTGTATGCACCCCATCTATACCT
 ATGGGAGCGAGGAACAGCGACAGAAATATCTGCCCGACTGGCCAAGGGTGAACCTCTGGGCTGCTTTGG
 ACTTACAGAGCCCAACCATGGGAGTGACCCAGGTGGCATGGAGACCAGAGCTCGCCACAATCCATCAAAC
 CAGAGCTACACTCTCAGTGGGACCAAGACTGGATCACCAACTCCCTGTGGCTGACCTATTTATAGTGT
 GGGCTCGGTGTGAGGATAACTGTATTCGGGGCTTCATACTGGAGAAGGGTATGCGGGGCCTCTAGCCCC
 TAGGATTGAAGGAAAGTTCTCCTTGCGGGCCTCGGCTACCGGTATGATCATGAGCAGTGTGGAAGTG
 CCTGAGGAGAATGTGCTGCCTAATGTATCCAGCCTGGCGGGCCCTTTGGCTGCCTAACACTGCCCGCT
 ATGGCATCACATGGGGTGTGTTGGGAGCTGCTGAGTCTGTTTGCACACAGCCCGGCAGTATGCCCTAGA
 CAGGATCCAGTTTGGAGTCCCCTTGGCCAGGAACAGCTGGTTCAGAAGAAGTTGGCAGACATGCTCACT
 GAGTACACTGGGACTCCATGCTTGTGCAACTTGGCCGTTTAAAGGATCAGGACAAGGCTACCCAG
 AGATGGTCTCCATGTTGAAGAGAAACAACCTGTGGAAAAGCCCTGGATATTGCCCGCCAGGACGAGACAT
 CCTGGGAGGAAAATGGGATTTCTGATGAGTACCATGTCATCCGGCATGCTATGAATCTGGAGGCAGTGAAC
 ACTTATGAAGGTACACATGACATTCATGCTCTGATCCTTGGGAGAGCAATTACTGGGATTACGGCATTCA
 CGTTGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229959 representing NM_008097
 Red=Cloning site Green=Tags(s)

MVPAMLTGYMSLRGV SARLLSRRSGLRFP RPTWSSAAAHEKTKQIRPAKSSRPVFDWKDPLILEEQLT
 ADEKLIRD TFRNYCQERLMSRILLANRNEVFHRDIVYEMGELGVLGPTIKGYGCAGVSSVAYGLLTRELE
 RVDSGYRSMMSVQSSLVMHPIYTYGSEEQRQKYLPLAKGELLGCFGLTEPNHGS DPGGMETRARRHNPSN
 QSYTLSGTKTWITNSPVADLFIVWARCEDNCIRGFILEKGM RGLSAPRIEGKFLRASATGMIIMDSVEV
 PEENVLPNVSSLAGPFGCLNTARYGITWGVLGAAEFCLHTARQYALDRIQFVPLARNQLVQKKLADMLT
 EITLGLHAQLGRLKDQDKATPEMVSMLKRNNCGKALDIARQARDILGGNGISDEYHVIRHAMNLEAVN
 TYEGTHDIHALILGRAITGIQAFVVGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008097

ORF Size: 1341 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

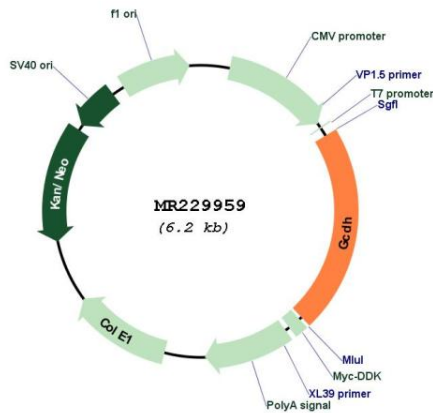
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008097.2, NP_032123.3](#)
 RefSeq Size: 2197 bp
 RefSeq ORF: 1344 bp
 Locus ID: 270076
 UniProt ID: [Q60759](#)
 Cytogenetics: 8 41.28 cM
 MW: 50 kDa

Gene Summary: Catalyzes the oxidative decarboxylation of glutaryl-CoA to crotonyl-CoA and CO(2) in the degradative pathway of L-lysine, L-hydroxylysine, and L-tryptophan metabolism. It uses electron transfer flavoprotein as its electron acceptor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229959