

## Product datasheet for **MR206984**

### Gcdh (NM\_001044744) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcdh (NM_001044744) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR206984 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCTGAGAGGAGTCTCCGCGGGTTGCTGAGCCGAGTCCGGCCTGCGCTTCCCGGTTTTCCAC  
 GTACCTGGAGCTCGGCGGCCGCCACACCGAGAAGACACAGATCCGACCGCCAAATCCTCTCGCCCGT  
 GTTTGACTGGAAGGACCACTACTACTGGAGGAGCAGCTGACTGCCGATGAGAACTGATCAGGGACACC  
 TTCGTAATACTGCCAGGAGCGGCTTATGTCTCGAATTCTGCTGGCTAATCGAAATGAAGTTTTCCACA  
 GGGACATTGTGTATGAGATGGGGGAGCTGGGCGTGTGGGACCCACCATTAAAGGGTATGGCTGTCTGG  
 TGTGTCGTCGGTGGCCTATGGGCTCCTGACCCGAGAGCTTGAGAGGGTGGACAGTGGCTACAGGTCGATG  
 ATGAGTGTTCAGTCTCCTTGTATGCACCCCATCTATACCTATGGGAGCGAGGAACAGCGACAGAAAT  
 ATCTGCCCGACTGGCCAAGGGTGAACCTCTGGGCTGCTTTGGACTTACAGAGCCCAACCATGGGAGTGA  
 CCCAGGTGGCATGGAGACCAGAGCTCGCCACAATCCATCAAACCCAGAGCTACACTCTCAGTGGGACCAAG  
 ACCTGGATCACCAACTCCCTGTGGCTGACCTATTTATAGTGTGGGCTCGGTGTGAGGATAACTGTATTC  
 GGGGCTTCATACTGGAGAAGGGTATGCGGGGCCTCTCAGCCCCTAGGATTGAAGGAAAGTTCTCCTTGGC  
 GCCTCGGCTACCGGTATGATCATGAGCAGTGTGGAAGTGCCTGAGGAGAATGTGCTGCCTAATGTA  
 TCCAGCCTGGCGGGCCCTTTTGGCTGCCTAACACTGCCCGCTATGGCATCACATGGGGTGTGTTGGGAG  
 CTGCTGAGTCTGTTTGCACACAGCCCGGCAGTATGCCCTAGACAGGATCCAGTTTGGAGTCCCCTTGGC  
 CAGGAACCAGCTGGTTCAGAAGAAGTTGGCAGACATGCTCACTGAGATCACACTGGGACTCCATGCTTGT  
 TTGCAACTGGCCGTTTAAAGGATCAGGACAAGGCTACCCAGAGATGGTCTCCATGTTGAAGAGAAACA  
 ACTGTGGAAAAGCCCTGGATATTGCCCGCCAGGCACGAGACATCCTGGGAGGAAATGGGATTTCTGATGA  
 GTACCATGTATCCGGCATGCTATGAATCTGGAGGCAAGTGAACACTTATGAAGGTACACATGACATTCAT  
 GCTCTGATCCTTGGGAGAGCAATTACTGGATTACAGCATTACAGTTGGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206984 protein sequence  
 Red=Cloning site Green=Tags(s)

MSLRGVSARLLSRRSGLRFRPFRPTWSSAAAHTKQIRPAKSSRPVFDWKDPLILEEQLTADKLIIRD  
 FRNYCQERLMSRILLANRNEVFHRDIVYEMGELGVLGPTIKGYGCAGVSSVAYGLLTRELERVDGYSR  
 MSVQSSVMHPIYTYGSEEQRQKYLPLAKGELLGCFGLTEPNHGSPPGGMETRARHNPSNQSYT  
 TWITNSPVADLFIVWARCEDNCIRGFILEKGMRLSAPRIEGKFSLRASATGMIIMDSVEVPEENVLP  
 NVSSLAGPFGCLNTARYGITWVGLGAAEFCLHTARQYALDRIQFVPLARNQLVQKKLADMLTEITLGL  
 HACLQLGRLKDQDKATPEMVSMKRNKCGKALDIARQARDILGGNGISDEYHIVIRHAMNLEAVNTY  
 YEGTHDIHALILGRAITGIQAFTVGK

**TR**TRPLE**QKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001044744

ORF Size: 1317 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\\_001044744.1](#), [NP\\_001038209.2](#)

RefSeq Size: 2140 bp

RefSeq ORF: 1344 bp

Locus ID: 270076

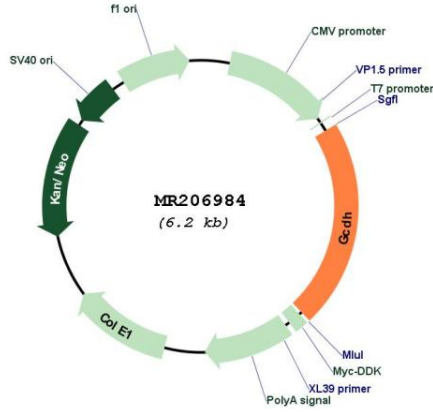
Cytogenetics: 8 41.28 cM

MW: 48.6 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 MR206984