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Product datasheet for MG206984

Gcdh (NM_008097) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcdh (NM_008097) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcdh
Synonyms:	9030411L18; AI266902; D17825; GCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206984 representing NM_008097
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCTGAGAGGAGTCTCCGCGCGGTTGCTGAGCCGCAGGTCCGGCCTGCGCTTCCCGCGTTTTCCAC
GTACCTGGAGCTCGGCGGCCGCCCACACCGAGAAGACACAGATCCGACCGGCCAAATCCTCTCGCCCCGT
GTTTGACTGGAAGGACCCACTCATACTGGAGGAGCAGCTGACTGCCGATGAGAAACTGATCAGGGACACC
TTCCGTAACTACTGCCAGGAGCGGCTTATGTCTCGAATTCTGCTGGCTAATCGAAATGAAGTTTTTCACA
GGGACATTGTGTATGAGATGGGGGAGCTGGGCGTGTTGGGACCCACCATTAAAGGGTATGGCTGTGCTGG
TGTGTCGTCGGTGGCCTATGGGCTCCTGACCCGAGAGCTTGAGAGGGTGGACAGTGGCTACAGGTCGATG
ATGAGTGTTCAGTCCTCCCTTGTCATGCACCCCATCTATACCTATGGGAGCGAGGAACAGCGACAGAAAT
ATCTGCCCGGACTGGCCAAGGGTGAACTTCTGGGCTGCTTTGGACTTACAGAGCCCAACCATGGGAGTGA
CCCAGGTGGCATGGAGACCAGAGCTCGCCACAATCCATCAAACCAGAGCTACACTCTCAGTGGGACCAAG
ACCTGGATCACCAACTCCCCTGTGGCTGACCTATTTATAGTGTGGGCTCGGTGTGAGGATAACTGTATTC
GGGGCTTCATACTGGAGAAGGGTATGCGGGGCCTCTCAGCCCCTAGGATTGAAGGAAAGTTCTCCTTGCG
GGCCTCGGCTACCGGTATGATCATCATGGACAGTGTGGAAGTGCCTGAGGAGAATGTGCTGCCTAATGTA
TCCAGCCTGGCGGGCCCTTTTGGCTGCCTTAACACTGCCCGCTATGGCATCACATGGGGTGTGTTGGGAG
CTGCTGAGTTCTGTTTGCACACAGCCCGGCAGTATGCCCTAGACAGGATCCAGTTTGGAGTCCCCTTGGC
CAGGAACCAGCTGGTTCAGAAGAAGTTGGCAGACATGCTCACTGAGATCACACTGGGACTCCATGCTTGT
TTGCAACTTGGCCGTTTAAAGGATCAGGACAAGGCTACCCCAGAGATGGTCTCCATGTTGAAGAGAAACA
ACTGTGGAAAAGCCCTGGATATTGCCCGCCAGGCACGAGACATCCTGGGAGGAAATGGGATTTCTGATGA
GTACCATGTCATCCGGCATGCTATGAATCTGGAGGCAGTGAACACTTATGAAGGTACACATGACATTCAT
GCTCTGATCCTTGGGAGAGCAATTACTGGGATTCAGGCATTCACGGTTGGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

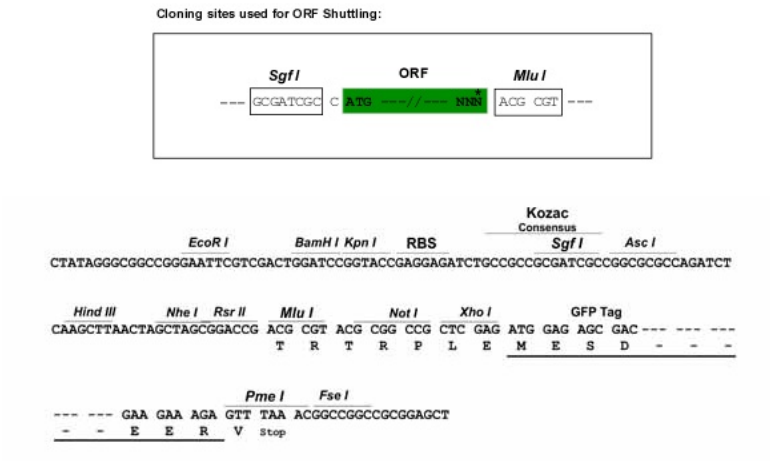
>MG206984 representing NM_008097
Red=Cloning site Green=Tags(s)

MSLRGVSARLLSRRSGLRFPRFPRTWSSAAAHTEKTQIRPAKSSRPVFDWKDPLILEEQLTADEKLIRDT
FRNYCQERLMSRILLANRNEVFHRDIVYEMGELGVLGPTIKGYGCAGVSSVAYGLLTRELERVDSGYRSM
MSVQSSLVMHPIYTYGSEEQRQKYLPGLAKGELLGCFGLTEPNHGSDPGGMETRARHNPSNQSYTLSGTK
TWITNSPVADLFIVWARCEDNCIRGFILEKGMRGLSAPRIEGKFSLRASATGMIIMDSVEVPEENVLPNV
SSLAGPFGCLNTARYGITWGVLGAAEFCLHTARQYALDRIQFGVPLARNQLVQKKLADMLTEITLGLHAC
LQLGRLKDQDKATPEMVSMLKRNNCGKALDIARQARDILGGNGISDEYHVIRHAMNLEAVNTYEGTHDIH
ALILGRAITGIQAFTVGK

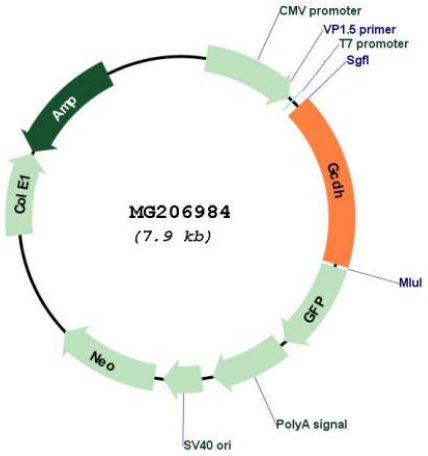
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008097

ORF Size:	1344 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_008097.2, NP_032123.3
RefSeq Size:	2197 bp
RefSeq ORF:	1344 bp
Locus ID:	270076
UniProt ID:	Q60759
Cytogenetics:	8 41.28 cM
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]