

Product datasheet for MR211473

Gldc (NM_138595) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gldc (NM_138595) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gldc
Synonyms:	b2b2679Clo; D030049L12Rik; D19Wsu57e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211473 representing NM_138595 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTGTGTGCCAGGGCATGGGGCTGCGCCTGGGCCGCGGAGCCGGGGGGGCCACCGCTGGCTC
GGGGCACCGGCTTGAGTTGGGCGCAGCGAAGCCGGGACAGCAGCGCGCGGTGGCGGTGGCGGTGGCGG
GGACCGCGCGCGGCTGGGGCTCGCGCTTCTGGAGCGCCTCCTGCCAGACACGATGACTTCTCCCGG
AGACACATCGGCCCGGAGACAAAGACCGGAGGGAGATGCTGCAGGCGCTGGGGCTGGCGAGCATTGATG
AGCTCATCGAGAAGACGGTCCCCGCCAGCATCCGCTTGAAGAGACCCTTGAAAATGGAAGACCCTATTTG
TGAGAATGAAATCCTCGAGACTCTGCATGCCATTGCAAGCAAGAACCAGATCTGGAGGTCGTATATTGGC
ATGGGCTATTACAACCTGCTCGGTGCCCCAGACATTTTGCGGAACCTACTGGAGAATTCTGGATGGGTCA
CCCAGTACACTCCGTATCAGCCAGAGGTGTCCCAGGGGAGGCTGGAGAGTTTACTCAACTACCAGACCAT
GGTGTCTGACATCACAGGCTTGGACATGGCCAACGCTTCCCTGCTGGATGAGGCAACCGCGGCTGCAGAG
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CGATAGCTGTTGTCCAGACTCGAGCCAAATATAGGGGGTGTCTTGTGAGCTGAAGTTACCCACGAAAT
GGATTTTCAGTGGCAAAGACGCTCTGTGGGTGCTGTTCCAGTACCCAGACACTGAGGGGAAGTGGAGGAC
TTCACAGAACTTGTAGACAGACCCATCAGACTGGGAGCCTGACCTGCTGTGCTACTGACCTTTTAGCTC
TGTGATTTTGGGCCACTGGAGAGTTTGGAGTGGACATTGCCCTGGGCAACTCCAGAGATTTGGAGT
GCCACTGGGCTATGGGGACCGCATGCGCCTTCTTTGCTGTCAAAGAAAACCTGGTGGAGATGATGCCT
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AACAAACATCCGGAGAGACAAAGCCACCAGCAACATCTGCACGGCTCAGGCCCTTTAGCCAACATGGC
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AGGTTTCAGTGTGGCTGCTCAGTGAAGGAGGTGCTGGGCAGAGCAGCTCAGAGGCAATCAACTTTGACT
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TGGATCTTCGGCTGTGAGTCATCTGCAGAATTAGTTGCTGAAGGCATGGGAGAGGAGCGGAGAGGTCTTC
 TAGGGTCTTCATTCAAGAGAACCAGCCCGTTCTCACTCATCAGGTGTTCAACAGCTATCACTCAGAAAAC
 TAATCTTGTCCGGTATATGAAGAACTGGAGAACAAGACATCTCCCTCGTTCACAGCATGATCCCCTG
 GGATCTGCACCATGAAGCTCAATAGCTCCTCCGAAGTTCACCCATCACCTGGAGAGAATTTGCCAACA
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 CAGCACATGGAACGAATCCAGCAAGCGCTCACATGGCGGGCATGAAGATCCAGCCTGTGGAGGTGGACAG
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 AACACGGAGGACAGGTCTACCTCGACGGGGCGAACATGAATGCCAGGTGGGAATCTGCCGCCCTGGGGA
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 TGGCTCATGAGTTTATCTTGGACACCCGACCCTTCAAAAAGTCTGCCAATGTTGAGGCTGTGGATGTTGC
 CAAGAGGCTCCAGGATTATGGATTTACGCCCTACCATGTCTGGCCTGTGGCAGGGACTCTCATGATT
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 GTGAAACCAGAGAACAATCTGGCCAACATTGCCCGGATCGATGACATCTACGGAGATCAGCACTTGG
 TCTGCACCTGCCGCCCATGGAGGTCTATGAGTCTCCATTTTCTGAACAGAAGAGGGCTTCTTCT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211473 representing NM_138595
 Red=Cloning site Green=Tags(s)

MQLCARAWGLRLGRGAGGGHRLARGTGLSWAQRSDSSGGGGGGGGDRGAAGASRLLERLLPRHDDFSR
 RHIGPGDKDRREMLQALGLASIDELIEKTVPASIRLKRPLKMEDPICENEILETLHAIASKNQIWRSYIG
 MGYNCSVPQITLRLLENSGWVTQYTPYQPEVSQGRLESLLNYQTMVSDITGLDMANASLLDEATAAAE
 AMQLCHRHNKRKFFVDPCHPQTIHAVVQTRAKYRGVLVELKLPHEMDFSGKDVCVGLFQYPTDEGKVED
 FTELVDRAHQTGSLTCCATDLLALCILRPPGEFGVDIALGNSQRFVPLGYGGPHAAFFAVKENLVRMMP
 GRMVGVTRDATGKEVYRLALQTRQHIRRDKATSNICTAQALLANMAAMFAIYHGSQGLKHIKRVHNAT
 LILSEGLKRAGHQLQHDLFFDTLKVQCGCSVKEVLGRAAQRQINFRLFDDGTLGISLDETVTEKDLDDL
 WIFGCESSAELVAEGMGEERRLLGSSFKRTSPFLTHQVFNSYHSETNLVRYMKLENKDISLVHSMIPL
 GSCTMKLNSSELAPITWREFANIHPFVPLDQAQGYQLFQGLEKDLCEITGYDRVSFQPNSSGAQGEYAG
 LATIRAYLDQKGERHRTVCLIPKSAHGTPASAHMAGMKIQPVEVDRYGNIDVAHLKAMVDQHKNLAAI
 MITYPSTNGVFEENIGDVCALIHQGGQVYLDGANMNAQVVICRPGDFGSDVSHLNLHKTFICPHGGGGP
 GMGPIGVKKHLSPLPSPHVISIKPTEGTWPVGTVSAAPWGSSSILPISWAYIKMMGGKGLKEATEIAIL
 NANYMAKREKHYRVLFRGARGYVAHEFILDTRPFKKSANVEAVDVAKRLQDYGFHAPTMSPVAGTLMIE
 PTESEDKAELDRFCDAMISIRQEIADIEEGRIDPRVNPLKMSPHSLTCVTSSCWDPRPYSREVAAPLPLP
 VKPENKFWPTIARIDDIYGDQHLVCTCPPMEVYESPFSEQKRASS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9034_b03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_138595

ORF Size: 3075 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_138595.2](#)

RefSeq Size: 3769 bp

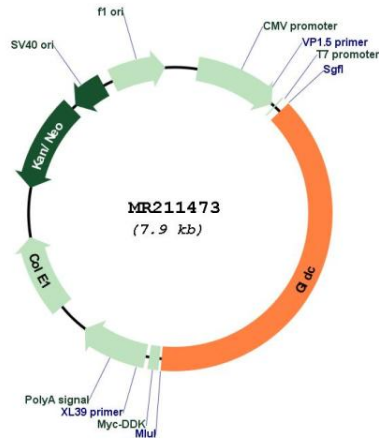
RefSeq ORF: 3078 bp

Locus ID: 104174

UniProt ID: [Q91W43](#)
 Cytogenetics: 19 24.87 cM
 MW: 113.7 kDa

Gene Summary: The glycine cleavage system catalyzes the degradation of glycine. The P protein (GLDC) binds the alpha-amino group of glycine through its pyridoxal phosphate cofactor; CO(2) is released and the remaining methylamine moiety is then transferred to the lipoamide cofactor of the H protein (GCSH) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211473