

Product datasheet for **SC215287**

GLUD1 (NM_005271) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	GLUD1 (NM_005271) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	GLUD1
Synonyms:	GDH; GDH1; GLUD
ACCN:	NM_005271
Insert Size:	1579 bp



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Insert Sequence: >SC215287 3'UTR clone of NM_005271
 The sequence shown below is from the reference sequence of NM_005271. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TACAATGAAGCTGGTGTGACCTTACATAGATGGATCATGGCTGACTTCCTCACTATCCTCTTCACATG
TAACTTCTGCAGACCTATCACAAGTTTACATGTAAACCACAGAAATCCCTTTCTCTCTGACTCATTAAAT
AATGGATACCATTCTCAACAAGTCAATCCAAGTCAGCCCGTTAAGGAGAAAGAAATTAAGGTTAGCGGA
TCATGTACAAGCTGAGTGTGAAAGTAGAAATCACCTACACCAGAGAGCCATTTTGGTATTTTGCCTTTA
AATAAAAAGCCTCCTTTATCTGGCTGTGCAGCCTTGCTCTGTGGCTTTTCCCAACACAATCAGTGCTAG
TGCTGGGAGGAACAGTCAAGAGCAGTCAGTTGCTTATTTTTCTGGATGAGTCTGGGACACACT
GTAACTTTAAACACATTTAAGAAGTAGGTGTGTGGCCTTTTCCAGAGGTGGCATGGTCTCAAGTGAAGT
CTTAGTATTTTATATCAGCAAAATAATTCAATTTTGCAGGTTGCAAAACAATAAAAACCTGTTTCTGT
TTATGAATATTATTCTTTTAGAATAGAATAAGTACATGCTGCTGTAATAAAATTGCCTTTAATCACTTA
ACAAGCCTAACCTTGACTCAAACAGTGAATGCCTATAGAAATAATAAATGAAAAAACTAGTATTTTAA
TATCATAAAAAATGTCATTTATAGCTTATCATTATGATTGTCCAGCAGACATTAAGCCCTGTGG
ATAATTAAGTTATCTTACACCTGCAAAATGGTGGAGGCTATTTTCATTAAGGCTGTCAGAAATTTGCTT
ACTATAATTATGATACAGTCCAAAGAATGCAGTCACTTTTATCATGTTAACTAATTGTTCTCTTTTGA
AGATCTATGGTTGACTAATTAACAATAATTCAAGTAGAGTGTCCAGAAAAAACCACTTGGGCTCCC
TGTTTGGAGTCTGGCTGGCTCTGAGCATTGCCAATGGCCCTACTCACCTGACTTGTATCCTCTCCTT
TTAGAGGCTTTGCATTCTGCACCCAGCTTCACTAACAGTGGGCTGAAAACATCCTTGGGTTGAGTGTTT
CATTTGGGAGTTATTTGGCCAGGCCTTTTGAACAGTAGTGTCCCATGAAGTGCTAGATAATATATGT
GTAAGAGTCAGCTTTTTTTTTTTTTTAACTCTAACCCCTTCCAGAAATTTCTAACTACTTTGTAACG
CATGGCTTAACTGGTGATAAAAGCAGTTATTAAGTCTACGTTTTCCAAAACCTACGTTTCTTTTCT
GTGTTTTTACATGGTAGTTTCTTTTTCATAAGTTATAAATACTGCAATTGGATTTCTGAAATGTTTA
TAGCGACCACCTGTATAACATTTCTTCCACTTTATTGTGAGCTGCCAGATTTTATTCTTGAATTGTT
TTTTTTTTTTTTTGTTCGGTGCTTACACGTTCCAGAGAACTTCCCGAGTAACGAACATAGAAATGATC
CCTGAAAGCATAGTCTTTATTCTCGAATTTTGTATTTTATTAATAATATGAACAGCT
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_005271.5](#)

Summary:

This gene encodes glutamate dehydrogenase, which is a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid-induced insulin secretion. It is allosterically activated by ADP and inhibited by GTP and ATP. Activating mutations in this gene are a common cause of congenital hyperinsulinism. Alternative splicing of this gene results in multiple transcript variants. The related glutamate dehydrogenase 2 gene on the human X-chromosome originated from this gene via retrotransposition and encodes a soluble form of glutamate dehydrogenase. Related pseudogenes have been identified on chromosomes 10, 18 and X. [provided by RefSeq, Jan 2016]

Locus ID:

2746

MW:

60.3