

## Product datasheet for **SC321890**

### GLUD2 (NM\_012084) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLUD2 (NM_012084) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLUD2
Synonyms:	GDH2; GLUDP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_012084.3  
 TTCCTTCCCTAGTCGCGGGGAGTCTGAGAAAAGCGCACCTGTTCCGCGACCGTCACGCACCC  
 CTCCTCCGCTGCCGCGATGTACCGCTACCTGGCCAAAGCGCTGCTGCCGTCCCGGGCCG  
 GGCCCGCTGCCCTGGGCTCCGCGGCCAACCCTCGGCCGCGTTGCTGGCCGGGGCCGCG  
 GACAGCCCGCCGCGCTCGCAGCCGGGCTCGCATTGGCCGCCCGGCCACTACAGCG  
 AGTTGGTGGCCGACCGCGAGGACGACCCCACTTCTTCAAGATGGTGGAGGGCTTCTTCG  
 ATCGCGGCGCCAGCATCGTGGAGGACAAGTTGGTGAAGGACCTGAGGACCCAGGAAGCG  
 AGGAGCAGAAGCGGAACCGGGTGC GCGGATCCTGCGGATCATCAAGCCCTGCAACCATG  
 TGCTGAGTCTCTCTTCCCATCCGCGCGACGACGGCTCCTGGGAGGTCATCGAAGGCT  
 ACCGGGCCAGCAGCCAGCACCGCACGCCCTGCAAGGGAGGTATCCGTTACAGCACTG  
 ATGTGAGTGTAGATGAAGTAAAAGCTTTGGCTTCTGTATGACATACAAGTGTGCACTGG  
 TTGATGTGCCGTTTGGGGTGCTAAAGCTGGTGTAAAGATCAATCCCAAGAACTATACCG  
 AAAATGAATTGAAAAGATCACAAGGAGGTTACCATGGAGCTAGCAAAGAAGGGCTTTA  
 TTGGTCTGGCGTTGATGTCCCTGCTCCAGACATGAACACAGGTGAGCGGGAGATGCTCT  
 GGATTGCTGATACCTATGCCAGCACCATAGGGCACTATGATATTAATGCACACGCTGTG  
 TTAAGTAAACCCATCAGCCAAAGGGGAATCCATGGACGCATCTCTGCTACTGGCCGTG  
 GTGCTTCCATGGGATTGAAAATTCATCAATGAAGCTTCTTACATGAGCATTATAGGAA  
 TGACACCAGGGTTAGAGATAAAACATTTGTTGTTGAGGGATTTGGTAATGTGGGCTAC  
 ACTCTATGAGATATTTACATCGTTTTGGTGCTAAATGTATTGCTGTTGGTGTGATGATG  
 GGAGTATATGGAATCCAGATGGTATTGACCCAAAGGAAGTGAAGACTTCAAATGCAAC  
 ATGGGTCCATTCTGGGCTTCCCAAGGCAAGCCCTATGAAGGAAGCATCTTGGAGGTGCG  
 ACTGTGACATACTGATCCAGCTGCCACTGAGAAGCAGTTGACCAAATCCAACGCACCCA  
 GAGTCAAAGCCAAGATCATTGCTGAAGGTGCCAATGGGCAACAACCTCCAGAAGCTGATA  
 AGATCTTCTGGAGAGAAACATTTTGGTTATTCCAGATCTCTACTTGAATGCTGGAGGAG  
 TGACAGTATCTTACTTTGAGTGGCTGAAGAATCTAAATCATGTCAGCTATGGCCGTTTGA  
 CCTTCAAATATGAAAGGATTCTAACTACCACTTGCTCCTGTCTGTTCAAGAGAGTTTGA  
 AAAGAAAATTTGAAAGCATGGTGGAACTATTCCCATTTGACCCACGGCAGAGTTCCAAG  
 ACAGTATATCGGGTGCATCTGAGAAAGACATTGTGCACTCTGCCTTGGCATAACAATGG  
 AGCGTTCTGCCAGGCAAATATGCACACAGCCATGAAGTATAACCTGGGATTGGACCTGA  
 GAAACAGCTGCCTATGTCAATGCCATTGAAAAAGTCTTCAAAGTGTACAGTGAAGCTGGT  
 TGACCTTACATAGATGGATCATGGCTGACTTCCCTCACTAACCTTTCACGTGTAACCTC  
 TGACAGACCTACCAAGTTTACATGTAACCACAGAAATCCCTTTCTCCTGACTCATT  
 CTAATGGATACCATTTCTCAACAAGTCAATCCAAATCAGCCCGTTAAGGAGAAAGAAATTA  
 ATATACAAGCTGAGTGTGAAAGTAGAAATCACCTACCCAGAGAGCTATTTTGGTATTTT  
 GCCTTTAAATAAAAAGCCTCCTCCATATGGCTGTGCAGCCTTGCTCTGTGGCTTTTCCCA  
 GCACAATCAGTGTAGTGTGGGAAAGGACAGTCAAGAGCAGTCAAGTGTGCTTACTTATT  
 TTGCTCTGGATGAGTCTGGGACACGCTGTAACCTTAAACACATTTAAGAAGAAGGTGTGTG  
 GCCTTTTCCAGAAGGTGGCATGGTCTCAAGTGAAGTCTTAGTATTTTATATCAGCAAAAT  
 AACTCAATTTTGCAGATTGCAAAACAAATATAAAAGCTGTTTCTGTTTATGAATTTTATTC  
 TTTTAGAATAGAATAAGTACATGCTGCTGTAATAAAATTCCTTTAATCACTTAAAAAAA  
 AAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_012084

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012084.3</a> , <a href="#">NP_036216.2</a>
<b>RefSeq Size:</b>	2348 bp
<b>RefSeq ORF:</b>	1677 bp
<b>Locus ID:</b>	2747
<b>UniProt ID:</b>	<a href="#">P49448</a>
<b>Cytogenetics:</b>	Xq24
<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
<b>Gene Summary:</b>	The protein encoded by this gene is localized to the mitochondrion and acts as a homohexamer to recycle glutamate during neurotransmission. The encoded enzyme catalyzes the reversible oxidative deamination of glutamate to alpha-ketoglutarate. This gene is intronless.[provided by RefSeq, Jan 2010]