

## Product datasheet for **SC321667**

### UDP glucose dehydrogenase (UGDH) (NM\_003359) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UDP glucose dehydrogenase (UGDH) (NM_003359) Human Untagged Clone
Tag:	Tag Free
Symbol:	UDP glucose dehydrogenase
Synonyms:	DEE84; EIEE84; GDH; UDP-GlcDH; UDPGDH; UGD
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\_003359.2  
 GGGAGGGGCGTGCGCCGAGAGGGAGCTCAGATCGAGCGGGGCGGGGTGGAGAAGCTGCG  
 GCAGCGCGGCCCGTAGGAAGGTGCTGTCCGAACGATCGGATTAGGAGCGGTCCCTGCGCT  
 TGCTGCTGGGAAGTGGTACAATCATGTTGAAATTAAGAAGATCTGTTGCATTGGTGCAG  
 GCTATGTTGGAGGACCCACATGTAGTGCATTGCTCATATGTGCCTGAAATCAGGGTAA  
 CGGTTGTTGATGTCAATGAATCAAGAATCAATGCGTGGAATTCCTACACTTCCATATTT  
 ATGAGCCAGGACTAAAAGAAGTGGTAGAATCCTGTGCGAGAAAAAATCTTTTTTTTCTA  
 CCAATATTGATGATGCCATCAAAGAAGCTGATCTTGATTATTTCTGTGAATACTCCAA  
 CAAAAACCTATGGAATGGGAAAAGGCCGCGGCAGCAGATCTGAAGTATATTGAAGCTTGTG  
 CTAGACGCATTGTGCAAACTCAAATGGGTACAAAATTGTGACTGAGAAAAGCACAGTTC  
 CGGTGCGGGCAGCAGAAAAGTATCCGTCGCATATTTGATGCAAACACAAAACCCAACTTGA  
 ATTTACAGGTGCTGTCCAACCTGAGTTTCTGGCAGAGGGAACAGCCATCAAGGACCTAA  
 AGAACCCAGACAGAGTACTGATTGGAGGGGATGAACTCCAGAGGGCCAGAGAGCTGTGC  
 AGGCCCTGTGTGCTGTATATGAGCACTGGGTTCCAGAGAAAAGATCCTCACCCTAATA  
 CTTGGTCTTCAGAGCTTCCAACTGGCAGCAAATGCTTTTCTTGCCAGAGAATAAGCA  
 GCATTAACCTCCATAAGTGTCTGTGTGAAGCAACAGGAGCTGATGTAGAAGAGGTAGCAA  
 CAGCGATTGGAATGGACCAGAGAATTGGAACAAGTTTCTAAAAGCCAGTGTGGGTTTG  
 GTGGGAGCTGTTTCCAAAAGGATGTTCTGAATTTGGTTTATCTCTGTGAGGCTCTGAATT  
 TGCCAGAAGTAGCTCGTTATTGGCAGCAGGTGATAGACATGAATGACTACCAGAGGAGGA  
 GGTGTTGCTTCCCGGATCATAGATAGTCTGTTAATACAGTAACTGATAAGAAGATAGCTA  
 TTTTGGGATTTGCATTCAAAAAGGACACTGGTGATACAAGAGAATCTTCTAGTATATATA  
 TTAGCAAATATTTGATGGATGAAGGTGCACATCTACATATATATGATCCAAAAGTACCTA  
 GGAACAATAATAGTTGGATCTTTCTCATCCAGGTGTTTTCAGAGGATGACCAAGTGTCCC  
 GGCTCGTGACCATTTCCAAGGATCCATATGAAGCATGTGATGGTGCCCATGCTGTTGTTA  
 TTTGCACTGAGTGGGACATGTTTAAAGGAATTGGATTATGAACGCATTCATAAAAAAATGC  
 TAAAGCCAGCCTTTATCTTCGATGGACGGCGTGTCTGGATGGGCTCCACAATGAACTAC  
 AAACCATTGGCTTCCAGATTGAAACAATTGGCAAAAAGGTGTCTTCAAAGAGAATTCCAT  
 ATGCTCCTTCTGGTGAATTTCCGAAGTTTGTCTTCAAGATCCACCTAACAAAGAAACCTA  
 AAGTGTAGAGATTGCCATTTTTATTTGTGATTTTTTTTTTTTTTTTGGTACTTCAGGATAGC  
 AAATATCTATCTGCTATTAATGGTAAATGAACCAAGTGTTTTTTTTTTTTTTTTTTTTT  
 GAGACAGAGTCTCACTGTGCCAGGCTGGAGTGCAGTGGTGAATCTCGGCTCACTGCA  
 AGCTCTGCTTCCAGGTTACGCCATTCTCCTGGCTCAACCTCCCAAGTACTGGGACTA  
 CAGGCACCCGCCACAGTGCCTGGCTAATTTTTTGTATTTTATAGTAGAGACAGGGTTTCC  
 CATGTGAGCCAGGATGGTCTCAATCTCCTGACCTTGTGAACCACCCGCTCGGCCTCCCA  
 AAGTGCTGGGATTACAGGTGTGAGCCACCACGCCTGGCCCATGAACCAAGTGTTTTTAAG  
 GAAACAAAATTTTTTTAATCATCAGATTTATACTAGCTATATGGATATTAGCATATC  
 TGGTAATTATGAATCTAGAATTTTTTACATATTTTTATAAATACTGTTAGCTCAGTTATT  
 GGATGAGTGAAAGATAATCATGTTGGTTTTAATAGTGTCAATTTTTGTAAAATAAAAATT  
 AAACCTCAAACCTTTACTTTATAAATTGTCATAGGCCACACTTAAATATCACATTATA  
 AAGGGAAGGACAGTCTTCAATTTCTCCTGGTTATTGGTTTGTGTTTGCATTAAGATATATT  
 TTGAATCCAAAAAATAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003359  
**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_003359.2</a> , <a href="#">NP_003350.1</a>
<b>RefSeq Size:</b>	3207 bp
<b>RefSeq ORF:</b>	1485 bp
<b>Locus ID:</b>	7358
<b>UniProt ID:</b>	<a href="#">O60701</a>
<b>Cytogenetics:</b>	4p14
<b>Domains:</b>	UDPG_MGDP_dh
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Ascorbate and aldarate metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism
<b>Gene Summary:</b>	<p>The protein encoded by this gene converts UDP-glucose to UDP-glucuronate and thereby participates in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated compounds are common components of the extracellular matrix and likely play roles in signal transduction, cell migration, and cancer growth and metastasis. The expression of this gene is up-regulated by transforming growth factor beta and down-regulated by hypoxia. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>