

## Product datasheet for **SC324652**

### UGT1A10 (NM\_019075) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UGT1A10 (NM_019075) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGT1A10
Synonyms:	GNT1; hUG-BR1; UDPGT; UGT-1A; UGT-1J; UGT1; UGT1-01; UGT1-10; UGT1.1; UGT1.10; UGT1A; UGT1A1; UGT1J
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\_019075.2  
 GTACTTCTCCGCTACTGTATCATAGCAGCTTAGAATCCCAGCTGCTGGCTCGGGCTGC  
 AGTTTCTCATGGCTCGCGCAGGGTGGACCAGCCCCGTTCTTTATGTGTGTGTCTACTG  
 CTGACCTGTGGCTTTGCCGAGGCAGGGAAGCTGCTGGTAGTGCATGGATGGGAGTCAC  
 TGGTTCACCATGCAGTCGGTGGTGGAGAACTTATCCTCAGGGGGCATGAGGTGGTTGTA  
 GTCATGCCAGAGGTGAGTTGGCAACTGGAAGATCACTGAATTGCACAGTGAAGACTTAC  
 TCAACCTCGTACACTCTGGAAGATCAGAACCAGGGAATTCATGGTTTTCCGCCATGCTCAA  
 TGGAAAGCACAGGCACAAAGTATATTTTCTCTATTAATGAGTTTCCAGTGTTTTCTT  
 GACTTATTTTTTTCGCATTGCAGGAGTTTGTAAATGACCGAAAATAGTAGAATACTTA  
 AAGGAGAGTTCTTTGATGCAGTGTCTGGATCCTTTTGATACCTGTGGCTTAATTGTT  
 GCTAAATATTTCTCCCTCCCTCTGTGGTCTTACCAGGGGAATATTTGCCACCATCTT  
 GAAGAAGTGCACAGTGCCTGCTCCTCTTCTATGTCCCAATGATCTCTTAGGGTTC  
 TCAGATGCCATGACTTCAAGGAGAGATGGAACCACATCGTGCCTGGAGGACCAT  
 TTATTTGCCAGTATCTTTTAGAAATGCCCTAGAAATAGCCTCTGAAATCTCCAAACC  
 CCTGTCACGGCATATGATCTCTACAGTCACACATCAATTTGGTGTGGCAACGGACTTT  
 GTTTGGACTATCCCAAACCCGTGATGCCAACATGATCTTCATTGGTGGTATCAACTGT  
 CATCAGGGAAAGCCATTGCCTATGGAATTTGAAGCCTACATTAATGCTTCTGGAGAACAT  
 GGAATGTGGTTTTCTTTGGGATCAATGGTCTCAGAAATCCAGAGAAGAAAGCTATG  
 GCAATTGCTGATGCTTTGGGCAAAATCCCTCAGACAGTCTGTGGCGGTACACTGGAACC  
 CGACCATCGAATCTTGGCAACAACAGATACTTGTAAAGTGGCTACCCAAAACGATCTG  
 CTTGGTCAACCGATGACCCGTGCCTTTATCACCATGCTGGTCCCATGGTGTATGAA  
 AGCATATGCAATGGCGTCCCATGGTGTATGATGCCCTTGTGGTGTGATGAGTGGACAAT  
 GCAAAGCGCATGGAGACTAAGGGAGCTGGAGTGACCTGAATGTTCTGGAATGACTTCT  
 GAAGATTTAGAAAATGCTCTAAAAGCAGTCATCAATGACAAAAGTTACAAGGAGAATC  
 ATGCGCCTCTCCAGCCTTACAAGGACCGCCCGGTGGAGCCGCTGGACCTGGCCGTGTT  
 TGGGTGGAGTTTGTGATGAGGCACAAGGGCGGCCACACCTGCGCCCCGAGCCACGAC  
 CTCACCTGGTACCAGTACCATTCTTGGACGTGATTGGTTTCTCTTGGCCGTGCTGCTG  
 ACAGTGGCCTTCATCACCTTTAAATGTTGTGCTTATGGCTACCGGAAATGCTTGGGGAAA  
 AAAGGGCGAGTTAAGAAAGCCCAAAATCCAAGACCCATTGAGAAGTGGTGGGAAATAA  
 GGTAATAATTTGAACCATTCCCTAGTCATTTCCAAACTTGAACAGAAATCAGTGTAA  
 TTCATTTTATTCTTATTAAGGAAATACTTGCATAAATTAATCAGCCCCAGAGTGTCTTA  
 AAAAAATCTCTTAAATAAAAAATAGACTCGCTAGTCAGTAAAGATATTTGAATATGT  
 ATCGTGCCCCCTCCGGTGTCTTTGATCAGGATGACATGTGCCATTTTTAGAGGACGTGC  
 AGACAGGCTGGCATTCTAGATTACTTTTCTACTCTGAAACATGGCCTGTTGGGAGTGC  
 GGGATTCAAAGGTGGTCCCACCGCTGCCCTACTGCAAAATGGCAGTTTTAATCTTATCTT  
 TTGGCTTCTGCAGATGGTTGCAATTGATCCTTAACCAATAATGGTCAGTCTCATCTCTG  
 TCCTGCTTCATAGGTGCCACCTTGTGTGTTAAGAAGGGAAGCTTTGTACCTTTAGAGT  
 GTAGGTGAAATGAATGAATGGCTTGGAGTGCCTGAGAACAGCATATGATTTCTTGCTTT  
 GGGGAAAAGAATGATGCTATGAAATGGTGGTGGTGTATTTGAGAAGATAATCATTGC  
 TTATGTCAAATGGAGCTGAATTTGATAAAAACCCAAAATACAGCTATGAAGTGTGGGCA  
 AGTTTACTTTTTTCTGATGTTTCTACAATAAAAATAAATTAATAATTTATATAAAT  
 TCTATTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_019075

**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_019075.2</a> , <a href="#">NP_061948.1</a>
<b>RefSeq Size:</b>	2399 bp
<b>RefSeq ORF:</b>	1593 bp
<b>Locus ID:</b>	54575
<b>UniProt ID:</b>	<a href="#">Q9HAW8</a>
<b>Cytogenetics:</b>	2q37.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, Ascorbate and aldarate metabolism, Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Retinol metabolism, Starch and sucrose metabolism
<b>Gene Summary:</b>	This gene encodes a UDP-glucuronosyltransferase, an enzyme of the glucuronidation pathway that transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into water-soluble, excretable metabolites. This gene is part of a complex locus that encodes several UDP-glucuronosyltransferases. The locus includes thirteen unique alternate first exons followed by four common exons. Four of the alternate first exons are considered pseudogenes. Each of the remaining nine 5' exons may be spliced to the four common exons, resulting in nine proteins with different N-termini and identical C-termini. Each first exon encodes the substrate binding site, and is regulated by its own promoter. The enzyme encoded by this gene has glucuronidase activity on mycophenolic acid, coumarins, and quinolines. [provided by RefSeq, Jul 2008]