

Product datasheet for **SC112983**

UGT (UGT2B4) (NM_021139) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT (UGT2B4) (NM_021139) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGT
Synonyms:	HLUG25; UDPGT2B4; UDPGTh-1; UDPGTH1; UGT2B11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112983 sequence for NM_021139 edited (data generated by NextGen Sequencing)

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ATGTCTATGAAATGGACTTCAGCTCTTCTGCTGATACAGCTGAGCTGTTACTTTAGCTCT
GGGAGTTGTGAAAGGTGCTGGTGTGGCCACAGAATTCAGCCACTGGATGAATAAAG
ACAATCCTGGATGAACCTGTCCAGAGAGGTCATGAGGTGACTGTATTGGCATCTTCAGCT
TCCATTTCTTTTCGATCCCAACAGCCCATCTACTTTAAATTTGAAGTTTATCCTGTATCT
TTAATTAACACTGAGTTTGAGGATATTATCAAGCAGCTGGTTAAGAGATGGGCAGAACTT
CCAAAAGACACATTTTGGTCATATTTTTACAAGTACAAGAAATCATGTGGACATTTAAT
GACATACTTAGAAAGTTCTGTAAGGATATAGTTTCAAATAAGAAACTTATGAAGAACTA
CAGGAGTCAAGATTTGATGTTGTTCTTGCAGATGCTGTTTTCCCTTTGGTGAGCTGCTG
GCCGAGTTACTTAAAATACCCTTTGTCTACAGCCTCCGCTTCTCTCCTGGCTACGCAATT
GAAAAGCATAGTGGAGGACTTCTGTTCCCTCCTTCTATGTGCCTGTTGTTATGTCAGAA
CTAAGTGACCAATGACTTTCATAGAGAGGGTAAAAAATATGATCTATGTGCTTTATTTT
GAATTTTGGTTCCAAATATTTGACATGAAGAAGTGGGATCAGTTCTACAGTGAAGTTCTA
GGAAGACCCACTACGTTATCTGAGACAATGGCAAAGCTGACATATGGCTTATTCGAAAC
TACTGGGATTTTCAATTTCTCACCCACTTTACCAAATGTTGAGTTCGTTGGAGGACTC
CACTGCAAACCTGCCAAACCCCTACCGAAGGAAATGGAAGAGTTTGTCCAGAGCTCTGGA
GAAAATGGTGTGTTGGTGTGTTTCTCTGGGGTCGATGGTCAGTAACACGTCAGAAGAAAGG
GCCAATGTAATTGCATCAGCCCTTGCCAAGATCCCAAAAAGGTTCTGTGGAGATTTGAT
GGGAATAAACAGATACTTTAGGACTCAATACTCGGCTGTACAAGTGGATACCCAGAAAT
GATCTTCTTGGTCACCCAAAACCAGAGCTTTTATAACTCATGGTGGAGCCAATGGCATC
TATGAGCCAATCTACCATGGAATCCCTATGGTGGGCGTTCATTGTTTGCAGATCAACCT
GATAACATTGCACACATGAAGGCCAAGGGAGCAGCTGTTAGTTTGGACTCCACACAATG
TCGAGTACAGACTTACTCAATGCACTGAAGACAGTAATTAATGATCCTTTATATAAAGAG
AATGCTATGAAATTATCAAGAATTCATCATGATCAACCAGTGAAGCCCTTGATCGAGCA
GTCTTCTGGATTGAATTTGTCATGCGCCATAAAGGAGCCAAGCACCTTCGGGTTGCAGCC
CACGACCTCACCTGGTCCAGTACCCTCTTTGGATGTGACTGGGTTCTGCTGGCCTGT
GTGGCACTGTGATATTCATCATCAGAAAATGTCTGTTTTGTGTCTGGAAGTTTGTAGTA
ACAGGAAAGAAGGGGAAAAGAGATTAA
    
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Clone variation with respect to NM_021139.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_021139 unedited

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CTTTTGTATACACTCCTATAGGGCGGCCGGAATTCGCACCAGGNAAAACAAGCATTGCA
TTGCATCAGGATGTCTATGAAATGGACTTCAGCTCTTCTGCTGATACAGCTGAGCTGTTA
CTTTAGCTCTGGGAGTTGTGAAAGGTGCTGGTGTGGCCACAGAATTCAGCCACTGGAT
GAATATAAAGACAATCCTGGATGAACCTGTCCAGAGAGGTCATGAGGTGACTGTATTGGC
ATCTTCAGCTTCCATTTCTTTTCGATCCCAACAGCCCATCTACTCTTAAATTTGAAGTTTA
TCTGTATCTTTAACTAAAACAGTGGTTGAGGATATTATCAAGCAGCTGGTTAAGAGATG
GGCAGAACTTCCAAAAGACACATTTTGGTCATATTTTTACAAGTACAAGAAATCATGTG
GACATTTAATGACATACTTAGAAAGTTCTGTAAGGATATAGTTTCAAATAAGAACTTAT
GAAGAACTACAGGAGTCAAGATTTGATGTTGTTCTTGCAGATGCTGTTTTCCCTTTGG
TGAGCTGTGGCCGAGTTACTTAAAATACCCTTTGTCTACAGCCTCCGCTTCTCTCCTGG
CTACGCAATTGAAAAGCATAGTGGAGGACTTCTGTTCCCTCCTTCTATGTGCCTGTTGN
TATGTCAGAACTAAGTGACCAATGACTTTCATAGAGAGGGTAAAAAATATGATCTATGT
GCTNTATTTTGAATTTTGGTTCCAAATATTTGACATGAAGAAGTGGGATCAGTTCTACAG
TGAAGTTCTAGGAAGACCCACTACNGTATCTGAGACAATGGCAAAGCTGACATATGGCC
TTATTCGAAACTACTGGGGATTTTTCAATTTCTCACCCACTCTTACCANATGNTTGAGN
TCGGTTGGAGGAACTCCACTGCAACCTGCCAAACCCCTACGNNAGAAATGGAAGAGTTTG
TCCGAGCTTGAGAAAAGNGGGTGTNGGGGGTTTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021139 unedited NCACTCTGNNACCGCGGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTACAA ATTTAATTATTTATTAGTTTCTCAACAACAGTTAAAACAACACAATCCTGCATGAAATG GATCCAAAGTATGCTGAGTATTTGCAAAACAGTACTGATACTGTCAGTGGACTTCTTAAT GTTCTTGTTCATGTACAATGTGTGACATGTAGTTAAGCTTAGTAAATTTTTTTCATG TAACCTGTGAATTGGAACAATAAATTTCAATATAAGCTCAATACATTTCAATATAACCTC GTATGGCTTTATATCATTTTTGTTCCTAATGTTTTCTCCTTGACATGAAATATTTTC TAATGGTTAAACAGGTACTAAAACAAATTTGACTTGACAAGGTAAGTTTTGAAAGATGT TTTGTCAAGAAGAAAGGAATCTTGTATCACAACGCTTCTTGTGTAATAAACTAA AGGAGTTCATTTATTGGGTTTCCAGCTTCCAGCCTCAGACGTAATTAATCTTTTCCC CTTCTTCTGTCTAACAACTCCAGACACAAAACAGACATTNTGTGATGATGAATAT CACAGTTGCCACAGGCCAGCAGGAACCCAGTCACATCCAAAGAGTGGTACTGGAACCA GGTGANGTCGTGGGCTGCAACCCGAAGTCTGNCTNCTTTATGCGCATGACANATTCA TNCCAGAGACTGCTCGATCAAGGGGCTCACTGGNTGATCATGATGAATTCTTGATAATTN CATAGCATNCTTTATATAAAGGATCATTAACTGNCTCAGNGCATTGAGTAAGTCT GTACTCGACATTGNGTGAAGTTCAAACACAGCTGCTCCTTTGGCCTCATGNNGTGCAT GTATCAAGGTGATCTGCAACCATGGNAACGCCACATANGGATNCATGGTAAAATGC
Restriction Sites:	NotI-NotI
ACCN:	NM_021139
Insert Size:	2240 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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:	<ol style="list-style-type: none"> 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_021139.1 , NP_066962.1

RefSeq Size:	2093 bp
RefSeq ORF:	1587 bp
Locus ID:	7363
UniProt ID:	P06133
Cytogenetics:	4q13.3
Domains:	UDPGT
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	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
Gene Summary:	<p>UDPGTs are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This isozyme is active on polyhydroxylated estrogens (such as estriol, 4-hydroxyestrone and 2-hydroxyestriol) and xenobiotics (such as 4-methylumbelliferone, 1-naphthol, 4-nitrophenol, 2-aminophenol, 4-hydroxybiphenyl and menthol). It is capable of 6 alpha-hydroxyglucuronidation of hyodeoxycholic acid.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>