

Product datasheet for **SC123996**

UGT2B15 (NM_001076) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2B15 (NM_001076) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGT2B15
Synonyms:	HLUG4; UDPGT 2B8; UDPGT2B15; UDPGTH3; UGT2B8
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 SC123996 sequence for NM_001076 edited (data generated by NextGen Sequencing)

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ATGTCTCTGAAATGGACGTCAGTCTTTCTGCTGATACAGCTCAGTTGTTACTTTAGCTCT
GGAAGCTGTGAAAGGTGCTAGTGTGGCCACAGAATACAGCCATTGGATAAATATGAAG
ACAATCCTGGAAGAGCTTGTTCAGAGGGGTCATGAGGTGACTGTGTTGACATCTTCGGCT
TCTACTTTGTCAATGCCAGTAAATCATCTGCTATTAATAATAGAAGTTTATCCTACATCT
TTAATAAAAAATGATTTTGAAGATTCTCTTCTGAAAATTCTCGATAGATGGATATATGGT
GTTTCAAAAAATACATTTTGGTCATATTTTTCACAATTACAAGAATTGTGTTGGGAATAT
TATGACTACAGTAACAAGCTCTGTAAGATGCAGTTTTGAATAAGAACTTATGATGAAA
CTACAAGAGTCAAAGTTTGATGTCATTCTGGCAGATGCCCTTAATCCCTGTGGTGAAGTA
CTGGCTGAACTATTTAACATACCCTTTCTGTACAGTCTTCGATTCTCTGTTGGCTACACA
TTTGAGAAGAATGGTGGAGGATTTCTGTTCCCTCCTTCTATGTACCTGTTGTTATGTCA
GAATTAAGTGATCAAATGATTTTCATGGAGAGGATAAAAAATATGATACATATGCTTTAT
TTTGACTTTTGGTTTCAAATTTATGATCTGAAGAAGTGGGACCAGTTTTATAGTGAAGTT
CTAGGAAGACCCACTACATTATTTGAGACAATGGGAAAGCTGAAATGTGGCTCATTGCA
ACCTATTGGGATTTTGAATTTCCCTCGCCATTCTTACCAATGTTGATTTTGTGGAGGA
CTTCACTGTAAACCAGCCAAACCCTGCCTAAGGAAATGGAAGAGTTTGTGCAGAGCTCT
GGAGAAAATGGTATTGTGGTGTCTCTGGGGTCGATGATCAGTAACATGTGAGAAGAA
AGTGCCAAACATGATTGCATCAGCCCTTGCCAGATCCCAAAAAGGTTCTATGGAGATT
GATGGCAAGAAGCCAAACTTTAGGTTCCAATACTCGACTGTAYAAGTGGTTACCCAG
AATGACCTTCTGGTTCATCCAAAACCAAAGCTTTTATAACTCATGGTGGAAACCAATGGC
ATCTATGAGGCGATCTACCATGGGATCCCTATGGTGGCATTCCCTTGTGCGGATCAA
CATGATAACATTGCTCACATGAAAGCCAAAGGAGCAGCCCTCAGTGTGGACATCAGGACC
ATGTCAAGTAGAGATTTGCTCAATGCATTGAAGTCAGTCATTAATGACCCTRTCTATAAA
GAGAAATRCATGAAATTATCAAGAATTCATCATGACCAACCAATGAAGCCCTGGATCGA
GCAGTCTTCTGGATTGAGTTTGTGATGCGCCAYAAAGGAGCCAAGCACCTTCGAGTCGCA
GCTCACAACTCACCTGGATCCAGTACCCTCTTTGGATGTGATAGCATTCCCTGTGGCC
TGCGTGGCAACTGTGATTTTATCATCACAAAATTTGCTGTTTTGTTCCGAAAGCTT
GCCAAAACAGGAAAGAAGAAGAAAAGAGATTAG
    
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Clone variation with respect to NM_001076.2
 253 t=>g;1065 c=>y;1312 g=>r;1327 g=>r;1413 c=>y;1568 a=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001076 unedited

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GCAAAGTCAGGATTTGTAATACGACTTCACTATAGNNGCGCGCAATTCGGCACCA
GNAAGCATTGCATAAGACCAGGATGTCTCTGAAAGGACGTCAGTCTTTCTGCTGATACAG
CTCAGTTGTTACTTTAGCTCTGGAAGCTGTGAAAGGTGCTAGTGTGGCCACAGAAATAC
AGCCATTGGATAAATATGAAGACAATCCTGGAAGAGCTTGTTCAGAGGGTTCATGAGGTG
ACTGTGTTGACATCTTCGGCTTCTACTCTTGTCAATGCCAGTAAATCATCTGCTATTA
TTAGAAGTTTATCCTACATCTTTAACTAAAAATGATTTGGAAGATTCTCTTCTGAAAATT
CTCGATAGATGGATATATGGTGTTCAAAAATACATTTTGGTCATATTTTTCACAATTA
CAAGAATTGTGTTGGGAATATTATGACTACAGTAACAAGCTCTGTAAGATGCAGTTTTG
AATAAGAACTTATGATGAACTACAAGAGTCAAAGTTTGTGTCATTCTGGCAGATGCC
CTTAATCCCTGTGGTGAAGTACTGGCTGAACTATTTAACATACCCTTTCTGTACAGTCTT
CGATTCTCTGTTGGCTACACATTTGAGAAGAATGGTGGAGATTCTGTTCCCTCCTTCC
TATGTACCTGTTGTTATGTCAGAATTAAGTGATCAAATGATTTTTCATGGAGAGGATAAAA
AATATGATACATATGCTTTATTTGACTTTTGGGTTCAAATTTATGATCTGAAGGAGGGG
GAACAGTTTTATAGATGAATTCTAGGAAGACCCATAATTTATTTGAGACATTGGGGAAG
CTAAATGGTGCTCATTCAACCTATTGGGATTTGAATTCCTCGCCATTCTAACAAA
    
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3' Read Nucleotide Sequence: >OriGene 3' read for NM_001076 unedited
 TCCGGGCCAGGAGGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTCAGG
 AAACAGCTATGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGGTT
 TTATATTATTTTTATTTTTCTTTTCTTTTTTTTTATGGCTTGGATGACACTTTATTTTC
 AGATCCAATACTAGAAGTTGTTCCATGTTACATTTTCCTTCTGGTTAAAAAAGA
 GTTGTATTTTTTTTTTGTCTTTTTTAAATTACTTTAAGTTTTAGGGTACATGTGCA
 CAACGTGCAGGTTAGCTACATATGTATACATGTGCCATGTTGGCGTGCTGCATCCAGTAA
 CTCGTCAATTAACATTAGGTATATCTCCAATGCTATCCTTCCCCCATTGTATTTTTCA
 TAGCTTAAAAATCATTGACATAGAATAATTCCAATAAGTACGTATTAATCCCTGGAA
 AATAAATTTTGTCTTAACAAGGTAAGTTGTGAAAAGATGTTTTGTACAGGAAAAAGGAA
 ATCCTCCATTTAAACCCTCCATGCTGAAATAAAGGAGGAGTCCCATCTTTCAGTCATTC
 CACTTCAGGCTTTTGATATACTAATNCTTTTTCTTCTTCTCCCGTTGGGCAAGCT
 TTCGGAACCAAACAGGGCAAAATTTGTGATGATAAATATCACAGTTGCCACGCAGCCAGC
 AGGATGCTATCAAN

Restriction Sites: NotI-NotI

ACCN: NM_001076

Insert Size: 2300 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:

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_001076.1](#), [NP_001067.1](#)

RefSeq Size: 2090 bp

RefSeq ORF: 1593 bp

Locus ID: 7366

UniProt ID:	<u>P54855</u>
Cytogenetics:	4q13.2
Domains:	UDPGT
Protein Families:	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:	This gene encodes a glycosyltransferase that is involved in the metabolism and elimination of toxic compounds, both endogenous and of xenobiotic origin. This gene plays a role in the regulation of estrogens and androgens. This locus is present in a cluster of similar genes and pseudogenes on chromosome 4. [provided by RefSeq, Aug 2016]