

Product datasheet for **SC115733**

UGT1A4 (NM_007120) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT1A4 (NM_007120) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGT1A4
Synonyms:	GNT1; hUG-BR1; HUG-BR2; UDPGT; UDPGT 1-4; UGT-1A; UGT-1D; UGT1; UGT1-01; UGT1-04; UGT1.1; UGT1.4; UGT1A; UGT1A1; UGT1A4S; UGT1D
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 SC115733 sequence for NM_007120 edited (data generated by NextGen Sequencing)

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ATGGCCAGAGGACTCCAGGTTCCCCTGCCGCGGCTGGCCACAGGACTGCTGCTCCTCCTC
AGTGTCCAGCCCTGGGCTGAGAGTGAAAGGTGTTGGTGGTGCCCACTGATGGCAGCCCC
TGGCTCAGCATGCGGGAGGCCTTGCAGGAGCTCCATGCCAGAGGCCACCAGGCGGTGGTC
CTCACCCAGAGGTGAATATGCACATCAAAGAAGAGAAATTTTTCACCCTGACAGCCTAT
GCTGTTCCATGGACCCAGAAGGAATTTGATCGCGTTACGCTGGGCTACACTCAAGGGTTC
TTTGAAACAGAACATCTTCTGAAGAGATATTCTAGAAGTATGGCAATTATGAACAATGTA
TCTTTGGCCCTTCATAGGTGTTGTGGAGCTACTGCATAATGAGGCCCTGATCAGGCAC
CTGAATGCTACTTCTTTGATGTGGTTTTAACAGACCCCGTTAACCTCTGCGGGGCGGTG
CTGGCTAAGTACCTGTCGATTCTGCTGTGTTTTTTGGAGGTACATTCCATGTGACTTA
GACTTTAAGGGCACACAGTGTCCAAATCCTTCTCTATATTCTAAGTTACTAACGACC
AATTCAGACCACATGACATTCTGCAAAGGGTCAAGAACATGCTCTACCCTCTGGCCCTG
TCCTACATTTGCCATACTTTTTCTGCCCTTATGCAAGTCTTGCCTCTGAGCTTTTTTCAG
AGAGAGGTGTCAGTGGTGGATCTTGTGAGCTATGCATCCGTGTGGCTGTTCCGAGGGGAC
TTTGTGATGGACTACCCAGCCGATCATGCCAACATGGTCTTCAATGGGGGCATCAAC
TGTGCCAACGGGAAGCCACTATCTCAGGAATTTGAAGCCTACATTAATGCTTCTGGAGAA
CATGGAATTGTGGTTTTCTTTGGGATCAATGGTCTCAGAAATTCAGAGAAGAAAGCT
ATGGCAATTGCTGATGCTTTGGGCAAAATCCCTCAGACAGTCTGTGGCGGTACTACTGGA
ACCCGACCATCGAATCTTGCGAACAACACGATACTTGTAAAGTGGCTACCCAAAACGAT
CTGCTTGGTCACCCGATGACCCGTGCCTTATCACCCATGCTGGTTCCCATGGTGTTTAT
GAAAGCATATGCAATGGCGTCCCATGGTATGATGCCCTTGTGGTGTATCAGATGGAC
AATGCAAAGCGCATGGAGACTAAGGGAGCTGGAGTGACCTGAATGTTCTGGAATGACT
TCTGAAGATTTAGAAAATGCTCTAAAAGCAGTCATCAATGACAAAAGTTACAAGGAGAAC
ATCATGCCCTCTCCAGCCTTCAAGGACCGCCCGGTGGAGCCGCTGGACCTGGCCGTG
TTCTGGGTGGAGTTGTGATGAGGCACAAGGGCGCCACACCTGCGCCCGCAGCCAC
GACCTCACCTGGTACCAGTACCATTCTTGGACGTGATTGGTTTCTCTTGGCCGTGCTG
CTGACAGTGGCCTTCATCACCTTAAATGTTGTGCTTATGGCTACCGAAATGCTTGGGG
AAAAAAGGGCGAGTTAAGAAAGCCACAATCCAAGACCCATTGA
    
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Clone variation with respect to NM_007120.2
471 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007120 unedited

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GTCGATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGGCTGAGATGGCC
AGAGGACTCCAGGTTCCCCTGCCGCGGCTGGCCACAGGACTGCTGCTCCTCCTCAGTGTG
CAGCCCTGGGCTGAGAGTGAAAGGTGTTGGTGGTGCCCACTGATGGCAGCCCCTGGCTC
AGCATGCGGGAGGCCTTGCAGGAGCTCCATGCCAGAGGCCACCAGGCGGTGGTCTCACC
CCAGAGGTGAATATGCACATCAAAGAAGAGAAATTTTTCACCCTGACAGCCTATGCTGTT
CCATGGACCCAGAAGGAATTTGATCGCGTTACGCTGGGCTACACTCAAGGGTTCTTTGAA
ACAGAACATCTTCTGAAGAGATATTCTAGAAGTATGGCAATTATGAACAATGTATCTTTG
GCCCTTATAGGTGTTGTGGAGCTACTGCATAATGAGGCCCTGATCAGGCACCTGAAT
GCTACTTCTTTGATGTGGTTTTAACAGACCCCGTTAACCTCTGCGGNGCGGTGCTGGCT
AAGTACCTGTGATTCCTGCTGTGTTTTTTGGAGGTACATTCCATGTGACTTAGACTTT
AAGGGCACACAGTGTCCAAATCCTTCTCTATATTCTAAGTTACTAACGACCAATTCA
GACCACATGACATTCTGCANAGGGTCAAGAACATGCTCTACCCTCTGGCCCTGTCTAC
ATTTGCCATACTTTTTCTGCCCTTATGCAGTCTTGCCTCTGAGCTTTTCAGAGAGAGT
GTCAGTGGTGGATCTTGTGAGCTATGCATCCGTGTGGCTGGTCCGAGGGACTTTGTGATG
GACTACCCAGCCGATCATGCCACATGGTCTTCATGGNGGCATCACTGTGCCACGGGNA
GCACTATCTCAGATTTGAGCTACTTATG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_007120 unedited NNTTCGACTTGNACC CGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAGATA ATTATATAAAATTTATTAATTTATTTTAGTTGTAGGAAACATCAGAAAAATAAACTTG CCCAGCACTTCATAGCTGTATTTTGGGTTTTATCAAATTCAGCTCCATTTGACATAAGC AATGATTATCTTCTCAAATACACCACCCACCAATTTTCATAGCATCATTCTTTTCCCAA AGCAAGAAATCATATGCTGTTCTCAGTGCCTCAAGCCATTTCATTTCACCTACAC TCTAAAGGTACAAGCTTCCCTTCTTAAACACACAAGGTGGCACCTATGAAGCACGACA GAGATGAGGACTGACCATTATTGGTTAAGGATCAATTGCAACCATCTGCAGAAGCCAAAA GATAAGATTAAAACCTGCCATTTGCAGTAGGGGACGCCGTGGGACCACTTTGAATCCCGC ACTCCCAAACAGGCCATGTTTCAGAGTAAGAAAAGTAATCTAGAATGCCAGCCTGTCTGC ACGTCCTCTGAAAAATGGCACATGTCATCCTGATCAAAGACACCAGAGGGGGCACGATAC ATATTCAAATATCTTTACTGACTAGCGAGTCTATTATTTTATTTAAGAGAATTTTTTAA AGCACTCTGGGGCTGATTAATTTATGCAAAGTATTTCTTAATAAGAATAAAATGAATTT AACACTGATTCTGTNTTCAAGTTTGGAAATGACTACGGGAATGGTTCACAATTTTACCTT ATTTCCCAACCACTTCTCATGGGGTCTGGNATTTGTGGGCTTTCTTAACCTCGCCTTTTGT GCCCCAGCATTTCCGGTAGCCATGAGCACACATTTAAAGGTGATGAAGCCACGGTAGCNC NAACGCCAAAAGAACCNATCACGTCAGGNATGACTGGTACCAGTGAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_007120
Insert Size:	2440 bp
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).
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_007120.2 , NP_009051.1
RefSeq Size:	2374 bp
RefSeq ORF:	1605 bp
Locus ID:	54657
UniProt ID:	P22310
Cytogenetics:	2q37.1
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 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. This enzyme has some glucuronidase activity towards bilirubin, although is more active on amines, steroids, and sapogenins. [provided by RefSeq, Jul 2008]