

Product datasheet for SC305718

UGT2B28 (NM_053039) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | UGT2B28 (NM_053039) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | UGT2B28 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene sequence for NM_053039 edited |

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ATGGCTCTGAAGTGGACTTCAGTTCCTTCTGCTGATACATCTCGGTTGTTACTTTAGCTCT
GGGAGTTGTGAAAGGTGCTGGTGTGGACCGGTGAATACAGCCATTGGATGAATATGAAG
ACAATCCTGAAAGAGCTTGTTTCAGAGAGGTCATGAGGTGACTGTACTGGCATCTTCAGCT
TCCATTCTTTTTGATCCCAATGACGCATTCACCTCTTAAACTCGAAGTTTATCCTACATCT
TAACTAAAACCTGAATTTGAGAATATCATCATGCAACAGGTTAAGAGATGGTCAGACATT
CAAAAAGATAGCTTTTGGTTATATTTTTTCAAGAACAAGAAATCCTGTGGGAATTTTCAT
GACATATTTAGAACTTCTGTAAAGATGTAGTTTCAAATAAGAAAGTTATGAAAAACTA
CAAGAGTCAAGATTTGACATCATTTTTGCAGATGCTTTTTTCTTGTGGTGAGCTGCTG
GCTGCGCTACTTAACATACCGTTTGTGTACAGTCTCTGCTTCACTCCTGGCTACACAAT
GAAAGGCACAGTGGAGGACTGATTTTCCCTCCTTCTACATACCTGTTGTTATGTCAAAA
TTAAGTGATCAAATGACTTTCATGGAGAGGGTAAAAAACATGATCTATGTGCTTTATTTT
GACTTTTGGTTCCAAATGTGTGATATGAAGAAGTGGGATCAGTTTTACAGTGAAGTTTTA
GGAAGACCCACTACCTTATTTGAGACAATGGGAAAGCTGACATATGGCTTATGCGAAAC
TCCTGGAGTTTTCAATTTCTCATCCATTCTTACCAAACATTGATTTTGTGGAGGACTC
CACTGCAAACCTGCCAAACCCCTACCTAAGGAAATGGAGGAATTTGTACAGAGCTCTGGT
GAAAATGGTGTTGTGGTGTCTCTGGGGTCAAGTATAAGTAAACATGACAGCAGAAAGG
GCCAACGTAATTGCAACAGCCCTTGCCAAGATCCCAAAAAGGTTCTGTGGAGATTTGAT
GGGAATAAACAGATGCCTTAGGTCTCAATACTCGGCTGTATAAGTGGATACCCAGAAAT
GACCTTCTAGGTCTTCAAAAACAGAGCTTTTAACTCATGGTGGAGCCAATGGCATC
TATGAGGCAATCTACCATGGGATCCCTATGGTAGGCATTCCATTGTTTTGGGATCAACCT
GATAACATTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGACTGGACTTCCACACAATG
TCGAGTACAGACCTGCTGAATGCACTGAAGACAGTAATTAATGATCCTTCATATAAAGAG
AATGTTATGAAATTATCAATAATTCAACATGATCAACAGTAAAGCCCTGCATCGAGCA
GTCTTCTGGATTGAATTTGTGATGTGCCACAAAGGAGCCAAACACCTTCGAGTTGCAGCC
CGTGACCTCACCTGGTTCCAGTACCCTCTTTGGATGTGATTGGGTTTCTGCTGGCCTGT
GTGGCAACTGTGATATTTGTCGTCACAAAAGTTTTGTCTGTTTTGTTTCTGGAAGTTGCT
AGAAAAGGGAAGAAGGAAAAAGAGATTAG

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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_053039 unedited TCATAATACCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATAT AAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTGTAATACGACTCACTATAGGGCGGCC GCGAATTCATGGCTCTGAAGTGGACTTCAGTTCTTCTGCTGATACATCTCGGTTGTTACT TTAGCTCTGGGAGTTGTGGAAAGGTGCTGGTGTGGACCGTGAATACAGCCATTGGATGA ATATGAAGACAATCCTGAAAGAGCTTGTTCAGAGAGGTCATGAGGTGAACTGACTGGCA TCTTCAGCTTCCATTCTTTTGGATCCCAATGACGCATTCCTTAAACTCGAAGTTTAT CCTACATCTTAACTAAACTGAATTTGAGAATATCATCATGCAACAGGTTAAGAGATGG TCAGACATTCAAAAAGATAGCTTTTGGTTATATTTTTCACAAGAACAAGAAATCCTGTGG GAATTTTCATGACATATTTAGAACTTCTGTAAAGATGTAGTTTCAAATAAGAAAGTTATG AAAAAGACTACAAGAGTCAAGATTTGACATCATTTTGCAGATGCTTTTTTCTGTGG TGAGCTGCTGGCTGCGCTACTTAACATACCGTTTGTGTACAGTCTCTGCTTCACTCCTGG CTACACAATTGAAAGGCACAGTGGAGGACTGATTTTCCCTCCTTCTACATACCTGTTGT TATGTCAAATTAAGTGATCAAATGACTTTCATGGAGAGGGTAAAAACATGATCTATGT GCTTTATTTTACTTTTGGTTCCAAATGTGTGATATGGAAGAAATGG |
| Restriction Sites: | Please inquire |
| ACCN: | NM_053039 |
| Insert Size: | 1600 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). |
| OTI Annotation: | The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference. |
| 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_053039.1 , NP_444267.1 |
| RefSeq Size: | 1851 bp |
| RefSeq ORF: | 1590 bp |
| Locus ID: | 54490 |
| UniProt ID: | Q9BY64 |
| Cytogenetics: | 4q13.2 |
| 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 member of the uridine diphosphoglucuronosyltransferase protein family. The encoded enzyme catalyzes the transfer of glucuronic acid from uridine diphosphoglucuronic acid to a diverse array of substrates including steroid hormones and lipid-soluble drugs. This process, known as glucuronidation, is an intermediate step in the metabolism of steroids. Two transcript variants encoding different isoforms have been found for this gene. While both isoforms are targeted to the endoplasmic reticulum, only the longer isoform appears to be active. [provided by RefSeq, May 2011]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).