

Product datasheet for **SC336388**

UGT2A1 (NM_001301239) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2A1 (NM_001301239) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGT2A1
Synonyms:	UDPGT2A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336388 representing NM_001301239.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTAAACAACCTTCTGCTGTTCTCCCTTCAGATAAGTCTCATAGGAACCACTCTTGGTGGGAATGTT
TTGATTTGGCCAATGGAAGGTAGTCAATGGCTAAATGTTAAGATAATTATAGATGAGCTCATTAAAAAG
GAGCATAATGTGACTGTCCTAGTTGCCTCTGGTGCACCTTTTCATCACACCAACCTCTAACCCATCTCTG
ACATTTGAAATATATAAGGTGCCCTTTGGCAAAGAAAGAATAGAAGGAGTAATTAAGGACTTCGTTTTG
ACATGGCTGGAAAATAGACCATCTCCTTCAACCATTTGGAGATTCTATCAGGAGATGGCCAAAGTAATC
AAGGACTTCCACATGGTGTCTCAGGAGATCTGTGATGGCGTTCTTAAAAACCAACAGCTGATGGCAAAG
CTAAAGAAAAGCAAGTTTGAAGTCTGGTGTCTGATCCAGTATTTCTTGTGGCGATATAGTAGCTTTA
AAACTTGGAAATCCATTTATGTACTCTTGAGGTTTTCTCCAGCCTCAACAGTGGAAAAGCACTGTGGG
AAGGTACCATACCCTCCTTCTATGTTCTGCTGTTTTATCAGAAGTACCGACCAATGTCTTTCACT
GACAGAATAAGAAATTTTCATCTCTACCACCTACAGGACTACATGTTTGAAGTCTTTGGAAATCATGG
GATTCATACTATAGTAAAGCTTTAGGAAGACCCACTACGTTATGTGAGACTATGGGGAAAGCTGAAATT
TGTTAATCCGAACATATTGGGATTTTGAATTTCTCGTCCATACTTACCTAATTTTGGATTTGTTGGA
GGATTGCACTGCAAACCTGCCAAACCTTACCTAAGGTTTTATGGAGATACAAAGGAAAGAAACCAGCC
ACATTAGGAAACAATACTCAGCTCTTTGATTGGATACCCAGAAATGATCTTCTTGGACATCCCAAACC
AAAGCTTTTATCACTCATGGTGGAACTAATGGGATCTACGAAGCTATTTACCACGGAGTCCCTATGGTG
GGAGTTCCCATGTTTGTGATCAGCCTGATAACATTGCTCACATGAAGGCCAAAGGAGCAGCTGTGGAA
GTGAACCTAAACAATGACAAGTGTGGATTTGCTTAGCGCTTTGAGAACAGTCATTAATGAACCTTCT
TATAAAGAGAATGCTATGAGTTATCAAGAATTCACCATGATCAACCTGTAAAGCCCTGGATCGAGCA
GTCTTCTGGATCGAGTTTGTCTATGCGCCCAAAGGAGCCAAAGCACCTTCGGGTTGCAGCCATGACCTC
ACCTGGTTCCAGTACCACTCTTTGGATGTAATTGGGTTCTTGTGCTGTGTGACAACGCCTATATTT
TTGGTCATACAATGTTGTTTGTCTGTCAAAAATTTGGTAAGATAGGAAAGAAGAAAAAAGAGAA
TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001301239

Insert Size: 1452 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:

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_001301239.1
RefSeq Size:	2461 bp
RefSeq ORF:	1452 bp
Locus ID:	10941
UniProt ID:	Q9Y4X1
Cytogenetics:	4q13.3
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
MW:	55.2 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the UDP-glycosyltransferase family, members of which catalyze biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase water solubility and enhance excretion. They are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This enzyme is expressed in the olfactory neuroepithelium, which lines the posterior nasal cavity and is exposed to a wide range of odorants and airborne toxic compounds. Hence, this protein has been suggested to be involved in clearing lipophilic odorant molecules from the sensory epithelium. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. This gene shares exon structure with the UDP glucuronosyltransferase 2A2 family member, which encodes N-terminally distinct isoforms. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (4, also known as UGT2A1deltaexon3) differs in the 5' UTR, and lacks an alternate in-frame exon in both the central and 3' coding regions, compared to variant 2. The encoded isoform (4, also known as UGT2A1_i2) is shorter than isoform 2.</p>