

Product datasheet for **SC317113**

UGT2A2 (NM_001105677) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2A2 (NM_001105677) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGT2A2
Synonyms:	UDPGT 2A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC317113 representing NM_001105677.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTTCCATAAGGGATTTTACCATGCCTAAGAAGTTTGTCCAGATGCTGGTTTTTAATTTGACTCTG
ACTGAAGTTGTTCTAAGTGGGAATGTGTTAATTTGGCCTACAGATGGTAGCCATTGGTTAAATATTAAG
ATTATTCTAGAAGAGTTGATTCAAAGAAATCACAATGTGACTGTACTGGCTTCATCAGCAACTCTATTC
ATCAACTCCAATCCCATTCTCCTGTGAATTTTGAAGTGATACCTGTTTCTACAAGAAGAGCAATATA
GATTCCTAATTGAGCATATGATAATGTGTGGATTGACCATAGACCAACTCCTCTCACAATATGGGCT
TTCTACAAAGAACTAGGAAAACCTTAGACACTTTCTTTCAAATTAACATACAACTCTGTGATGGTGA
CTAAAGAACCAGTTGATGGCAAGACTTCAGAAAGGTGGTTTTGATGTGTGGTAGCAGACCCAGTA
ACAATCTGTGGTATCTTGTGCTCTGAAATTAGGAATCCATTTATGTACACATTGAGGTTCTCTCCA
GCATCAACAGTGGAGAGACTGTGGGAAAATCCAGCACCAGTCTCCTATGTACCGGCAGCCTTATCA
GAGCTCACTGACCAGATGACCTTTGGTGAAGGATTAATAATACCATATCTTATTCTCTGCAAGACTAT
ATATTTAGTCCACTACTGGGAGAAATGGAATTCATACTATAGCAAATTTTAGGAAGCCCACTACGTTA
TGTGAGACTATGGGAAAAGCTGAAATTTGGTTAATCCGAACATATTGGGATTTTGAATTTCTCGTCCA
TACTTACCTAATTTTGTGTTTGGAGGATTGCACTGCAAACCTGCCAAACCTTACCTAAGGAAATG
GAAGAATTTATCCAGAGCTCAGGTAAAAATGGTGTGTGGTGTGTTTCTCTGGGATCAATGGTCAAAAAC
CTTACAGAAGAAAAGGCCAATCTTATTGCCTCAGCCCTTGCCAGATTCCACAGAAGTTTTATGGAGA
TACAAAGGAAAGAAACCAGCCACATTAGGAAACAATACTCAGCTCTTTGATTGGATACCCAGAATGAT
CTTCTTGGACATCCAAAACCAAAGCTTTTATCACTCATGGTGGAACTAATGGGATCTACGAAGCTATT
TACCACGGAGTCCCTATGGTGGGAGTCCCATGTTTGTGATCAGCCTGATAACATTGCTCACATGAAG
GCCAAAGGAGCAGCTGTGGAAGTGAACCTAAACACAATGACAAGTGGGATTTGCTTAGCGCTTTGAGA
ACAGTCATTAATGAACCTTCTTATAAAGAGAATGCTATGAGGTTATCAAGAATTCACCATGATCAACCT
GTAAGGCCCTGGATCGAGCAGTCTTCTGGATCGAGTTTGTGATGCGCCCAAAGGAGCCAAAGCACCTT
CGGGTTGAGCCCATGACCTCACCTGGTCCAGTACCCTCTTTGGATGTAATTGGGTTCTTGTGGTC
TGTGTGACAACGGCTATATTTTGGTCATACAATGTTGTTGTTTCTGTCAAAAATTTGGTAAGATA
GGAAAGAAGAAAAAAGAGAATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: Sgfl-Mlul

Plasmid Map: □

ACCN: NM_001105677

Insert Size: 1611 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001105677.2](#)

RefSeq Size: 2568 bp

RefSeq ORF: 1611 bp

Locus ID: 574537

UniProt ID: [Q9Y4X1](#)

Cytogenetics: 4q13.3

MW: 60.8 kDa

Gene Summary: UDP-glucuronosyltransferases catalyze phase II 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. Active on odorants and seems to be involved in olfaction; it could help clear lipophilic odorant molecules from the sensory epithelium.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (UGT2A2_i1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.