

Product datasheet for **SC330282**

UGT2A1 (NM_001252275) Human Untagged Clone

Product data:

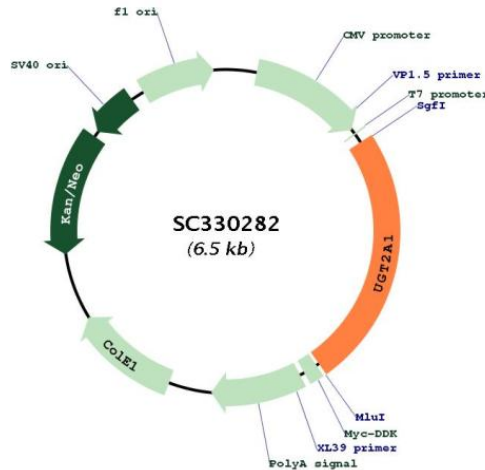
Product Type: Expression Plasmids
Product Name: UGT2A1 (NM_001252275) Human Untagged Clone
Tag: Tag Free
Symbol: UGT2A1
Synonyms: UDPGT2A1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330282 representing NM_001252275.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTTAAACAACCTTCTGCTGTTCTCCCTCAGATAAGTCTCATAGGAACCACTCTTGGTGGGAATGTT
TTGATTTGGCCAATGGAAGGTAGTCATTGGCTAAATGTTAAGATAATTATAGATGAGCTCATTAAAAAG
GAGCATAATGTGACTGTCCTAGTTGCCTCTGGTGCACCTTTTCATCACACCAACCTCTAACCCATCTCTG
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TGGATCGAGTTTGTGATCGCCACAAGGAGCCAAGCACCTTCGGGTTGCAGCCATGACCTCACCTGG
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ATACAATGTTGTTGTTTTCTGTCAAAAATTTGGTAAGATAGGAAAGAAGAAAAAAGAGAAATAG
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001252275

Insert Size: 1584 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_001252275.1](#)

RefSeq Size: 2656 bp

RefSeq ORF: 1584 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:	60 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 (3) lacks an alternate in-frame exon but instead contains a different in-frame exon in the central coding region, compared to variant 2. The encoded isoform (3) is shorter than isoform 2.</p>