

## Product datasheet for **RC221373**

### UGT1A5 (NM\_019078) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UGT1A5 (NM_019078) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UGT1A5
Synonyms:	UDPGT; UDPGT 1-5; UGT1E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC221373 representing NM\_019078  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCACAGGACTCCAGGTTCCCTGCCGAGCTGGCCACAGGACTGCTGCTTCTCCTCAGTGTCCAGC  
 CCTGGGCTGAGAGTGGGAAGGTGCTGGTGGTCCCACTGATGGCAGCCACTGGCTCAGCATGCGGGAGGC  
 CTTGCGGGACCTCCATGCGAGAGGCCACCAGGTGGTGGTCTCACCTGGAGGTGAATATGTACATCAAA  
 GAAGAGAAGCTTTTCCACCTGACAACGATGCCATTTTCATGGACCCAGGACGAATTTGATCGCCTTTTGC  
 TGGGTCACTCAATCGTTCTTTGAAACAGAACATCTTCTGATGAAATTTCTAGAAGAATGGCAATTAT  
 GAACAATATGCTTTGATCATAATAGGCTTGTGTGGAGCTACTGCATAATGAGGCCCTGATCAGGCAC  
 CTGCATGCTACTTCTTTGATGTGGTCTAACAGACCCCTTTCACCTCTGCGCGCGGTGCTGGCTAAGT  
 ACCTGTCGATTCCTGCTGTGTTTTCTTGAGGAACATTCCATGTGATTTAGACTTAAAGGGCACACAGTG  
 TCCAAACCCTTCTCTATATTCCTAGATTACTAACGACCAATTCAGACCACATGACATTCCTGCAAGG  
 GTCAAGAACATGCTCTACCTCTGGCCCTGCTCCTACCTTTGCCATGCTGTTTCTGCTCCTTATGCAAGCC  
 TTGCTCTGAGCTTTTTAGAGAGAGGTGTCAGTGGTGGATCTTGTGAGCCATGCATCTGTGTGGCTGTT  
 CCGAGGGGACTTTGTGATGGATTACCCAGGCCGATCATGCCAACATGGTCTTCATTGGGGGCATCAAC  
 TGTGCCAACGGGAAGCCACTATCTCAGGAATTTGAAGCCTACATTAATGCTTCTGGAGAACATGGAATTG  
 TGGTTTTCTTTGGGATCAATGGTCTCAGAAATTCAGAGAAGAAAGCTATGGCAATTGCTGATGCTTT  
 GGGCAAAATCCCTCAGACAGTCTGTGGCGGTACTGGAACCCGACCATCGAATCTTGGCAACAACAGC  
 ATACTTGTAAAGTGGCTACCCAAAACGATCTGCTTGGTCACCCGATGACCCGTGCCTTTATCACCCATG  
 CTGGTTCCTATGGTGTATGAAAGCATATGCAATGGCCTTCCCATGGTATGATGCCCTTGTTTGGTGA  
 TCAGATGGACAATGCAAAGCGCATGGAGACTAAGGGAGCTGGAGTGACCCTGAATGTTCTGGAAATGACT  
 TCTGAAGATTTAGAAAATGCTCTAAAAGCAGTCATCAATGACAAAAGTTACAAGGAGAACATCATGCGCC  
 TCTCCAGCCTTACAAGGACCGCCCGGTGGAGCCGCTGGACCTGGCCGTGTTCTGGGTGGAGTTTGTGAT  
 GAGGCACAAGGGCGGCCACACCTGCGCCCGCAGCCACGACCTCACCTGGTACCAGTACCATTCTTG  
 GACGTGATTGGTTTCTCTTGGCCGTGCTGCTGACAGTGGCCTTCATCACCTTTAAATGTTGTGCTTATG  
 GCTACCGAAATGCTTGGGGAAAAAGGGCGAGTTAAGAAAGCCCAAAATCCAAGACCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC221373 representing NM\_019078  
 Red=Cloning site Green=Tags(s)

MATGLQVPLPQLATGLLLLLSVQPWAESGKVLVPTDGSWLSMREALRDLHARGHQVVVLTEVNMYIK  
 EENFFTLTYAISWTQDEFDRLLLGHTQSFFETEHLMKFSRRMAIMNMSLIHRSCVELLHNEALIRH  
 LHATSFVVLTPFHLCAAVLAKYLSIPAVFFLRNIPCDLDFKGTQCPNPSSYIPRLTTNSDHMTFLQR  
 VKNMLYPLALSYLCHAVSAPYASLASELFQREVSVDLVSHASVWVFRGDFVMDYPRPIMPNMVFIGGIN  
 CANGKPLSQEFEAYINASGEHGI VVFLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGRPSNLANNT  
 ILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTLNVLEMT  
 SEDLENALKAVINDKSYKENIMRSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAHADLTWYQYHSL  
 DVI GFLAVVLTVAFITFKCCAYGYRKLKGGKGRVKKAHKSKTH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8010\\_a09.zip](https://cdn.origene.com/chromatograms/mk8010_a09.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_019078

**ORF Size:** 1602 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_019078.1](#), [NP\\_061951.1](#)

**RefSeq Size:** 2345 bp

**RefSeq ORF:** 1605 bp

**Locus ID:** 54579

**UniProt ID:** [P35504](#)

**Cytogenetics:** 2q37.1

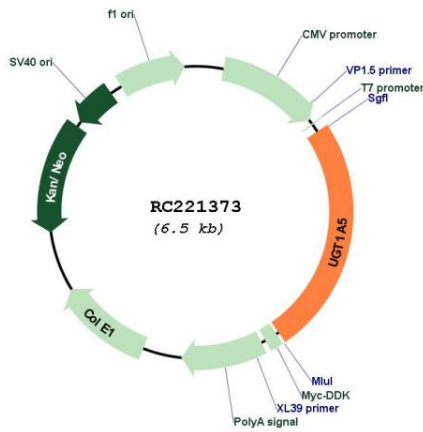
**Protein Families:** Transmembrane

**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:** 57.1 kDa

**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. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC221373