

## Product datasheet for **RC205752**

### UGT1A6 (NM\_205862) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UGT1A6 (NM_205862) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UGT1A6
Synonyms:	GNT1; HLUGP; HLUGP1; hUG-BR1; UDPGT; UDPGT 1-6; UGT-1A; UGT-1C; UGT-1E; UGT-1F; UGT1; UGT1-01; UGT1-03; UGT1-05; UGT1-06; UGT1.1; UGT1.3; UGT1.5; UGT1.6; UGT1A; UGT1A1; UGT1A3; UGT1A5; UGT1A6S; UGT1C; UGT1E; UGT1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205752 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTGCCTCCTTCGCTCATTTCAGAGAATTTCTGCAGGGGTTTTCTTCTTAGCACTTTGGGCATGG  
 TTGTAGGTGACAAGCTGCTGGTGGTCCCTCAGGACGGAAGCCACTGGCTTAGTATGAAGGATATAGTTGA  
 GGTTCCTAGTGACCGGGGTCATGAGATTGTAGTGGTGGTGCCTGAAGTTAATTTGCTTTTAAAAGATCC  
 AAATACTACACAAGAAAATCTATCCAGTGCCGTATGACCAAGAAGAGCTGAAGAACCGTTACCAATCAT  
 TTGGAAACAATCACTTTGCTGAGCGATCATTCTAACTGCTCCTCAGACAGAGTACAGGAATAACATGAT  
 TGTTATTGGCCTGTACTTCATCAACTGCCAGAGCCTCCTGCAGGACAGGGACACCCTGAACCTTTAAAG  
 GAGAGCAAGTTTGTGCTCTTTTACAGACCCAGCCTTACCCTGTGGGGTATCCTGGCTGAGTATTTGG  
 GCCTACCATCTGTGTACCTCTTCAGGGGTTTTCCGTGTTCCCTGGAGCATACATTCAGCAGAAGCCAGA  
 CCCTGTGCTACATTCCAGGTGCTACACAAAGTTTTTACAGCCACATGACTTTTTCCCAACGAGTGGCC  
 AACTTCCTTGTTAATTTGTTGGAGCCCTATCTATTTTATTGTCTGTTTTCAAAGTATGAAGAACTCGCAT  
 CAGCTGTCCTCAAGAGAGATGTGGATATAATCACCTTATATCAGAAGGTCTCTGTTTGGCTGTTAAGATA  
 TGACTTTGTGCTTGAATATCCTAGGCCGGTATGCCCAACATGGTCTTTCATTGGAGGTATCAACTGTAAG  
 AAGAGGAAAGACTTGTCTCAGGAATTTGAAGCCTACATTAATGCTTCTGGAGAACATGGAATTTGGGTTT  
 TCTCTTTGGGATCAATGGTCTCAGAAATTCAGAGAAGAAAGCTATGGCAACTGCTGATGCTTTGGGCAA  
 AATCCCTCAGACAGTCTGTGGCGGTACTGGAACCCGACCATCGAATCTTGGCAACAACACGATACTT  
 GTTAAGTGGTACCCAAAACGATCTGCTTGGTCAACCGATGACCCGTGCCTTTATCACCCATGCTGGTT  
 CCCATGGTGTATGAAAGCATATGCAATGGCGTTCCCATGGTGATGATGCCCTTGTGGTGGTATGATGAT  
 GGACAATGCAAAAGCGCATGGAGACTAAGGGAGCTGGAGTGACCCTGAATGTTCTGGAAATGACTTCTGAA  
 GATTTAGAAAATGCTCTAAAAGCAGTCAATGACAAAAGTTACAAGGAGAACATCATGCGCCTCTCCA  
 GCCTTCACAAGGACCGCCCGGTGGAGCCGCTGGACCTGGCCGTGTTCTGGGTGGAGTTTGTGATGAGGCA  
 CAAGGGCGCGCCACACCTGCGCCCCGACGCCACGACCTCACCTGGTACCAGTACCATTCTTGGACGTG  
 ATTGGTTTCTCTTGGCCGTCGTGCTGACAGTGGCCTTCATCACCTTTAAATGTTGTGCTTATGGCTACC  
 GGAAATGCTTGGGAAAAAAGGGCGAGTTAAGAAAGCCCAAAATCCAAGACCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205752 protein sequence  
 Red=Cloning site Green=Tags(s)

MACLLRSFQRISAGVFFLALWGMVVGDKLLVVPQDGSOWL SMKDIVEVL SDRGHEIVVVVPEVNLLKES  
 KYITRKIYPVPYDQEELKNRYQSF GNNHFAERSFL TAPQTEYRNNMIVIGLYFINCQSLLDQDRDLNFFK  
 ESKFDALFTDPALPCGVILAEYLG LPSVYLFRGFPCSLEHTFSRSPDPVSYIPRCYTKFSDHMTFSQRVA  
 NFLVNLLEPYLFYCLFSKYEELASAVLKRVDVITLYQKYSVWLLRYDFVLEYPRPVMNMVFIGGINCK  
 KRKDLSEFEAYINASGEHGIVVFSLGSVMSEIPEKKAMATADALGKIPQTVLWRYTGTRPSNLANNITL  
 VKWL PQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTLNVLEMTSE  
 DLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAADHL TWYQYHSLDV  
 IGFLLA VVLTVAFITFKCCAYGRKCLGKGRVKKAHKSKTH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6521\\_b06.zip](https://cdn.origene.com/chromatograms/mk6521_b06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_205862

**ORF Size:** 1599 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 Size:** 1691 bp

**RefSeq ORF:** 798 bp

**Locus ID:** 54578

**Cytogenetics:** 2q37.1

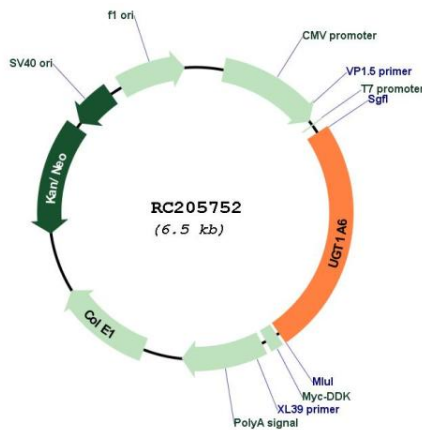
**Protein Families:** Transmembrane

**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

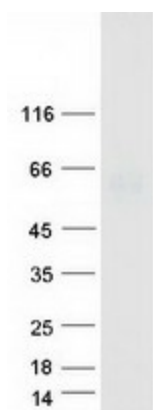
**MW:** 60.7 kDa

**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. The enzyme encoded by this gene is active on phenolic and planar compounds. Alternative splicing in the unique 5' end of this gene results in two transcript variants. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC205752



Coomassie blue staining of purified UGT1A6 protein (Cat# [TP305752]). The protein was produced from HEK293T cells transfected with UGT1A6 cDNA clone (Cat# RC205752) using MegaTran 2.0 (Cat# [TT210002]).