

Product datasheet for **RG205752**

UGT1A6 (NM_205862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT1A6 (NM_205862) Human Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205752 representing NM_205862
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTGCCTCCTTCGCTCATTTCAGAGAATTTCTGCAGGGTTTTCTTCTTAGCACTTTGGGCATGG
 TTGTAGGTGACAAGCTGCTGGTGGTCCCTCAGGACGGAAGCCACTGGCTTAGTATGAAGGATATAGTTGA
 GGTTCCTAGTGACCGGGTTCATGAGATTGTAGTGGTGGTGCCTGAAGTTAATTTGCTTTTGAAGAATCC
 AAATACTACACAAGAAAATCTATCCAGTGCCGTATGACCAAGAAGAGCTGAAGAACCGTTACCAATCAT
 TTGGAAACAATCACTTTGCTGAGCGATCATTCTAACTGCTCCTCAGACAGAGTACAGGAATAACATGAT
 TGTTATTGGCCTGTACTTCATCAACTGCCAGAGCCTCCTGCAGGACAGGGACACCCTGAACTTCTTTAAG
 GAGAGCAAGTTTGATGCTCTTTTACAGACCCAGCCTTACCCTGTGGGTGATCCTGGCTGAGTATTTGG
 GCCTACCATCTGTGTACCTCTTCAGGGTTTTCCGTGTTCCCTGGAGCATACATTCAGCAGAAGCCAGA
 CCCTGTGCTACATTCCAGGTGCTACACAAAGTTTTTACAGCCACATGACTTTTTCCCAACGAGTGGCC
 AACTTCCTTGTTAATTTGTTGGAGCCCTATCTATTTTATTGTCTGTTTTCAAAGTATGAAGAAGTCCGAT
 CAGCTGTCCTCAAGAGAGATGTGGATATAATCACCTTATATCAGAAGGTCTCTGTTTGGCTGTTAAGATA
 TGACTTTGTGCTTGAATATCCTAGGCCGGTTCATGCCCAACATGGTCTTCATTGGAGGTATCAACTGTAAG
 AAGAGGAAAGACTTGTCTCAGGAATTTGAAGCCTACATTAATGCTTCTGGAGAACATGGAATTTGGGTTT
 TCTCTTTGGGATCAATGGTCTCAGAAATTCAGAGAAGAAAGCTATGGCAACTGCTGATGCTTTGGGCAA
 AATCCCTCAGACAGTCTGTGGCGGTACTGGAACCCGACCATCGAATCTTGCGAACAACACGATACTT
 GTTAAGTGGTACCCAAAACGATCTGCTTGGTCAACCGATGACCCGTGCCTTTATCACCCATGCTGGTT
 CCCATGGTGTATGAAAGCATATGCAATGGCCTTCCCATGGTATGATGCCCTTGTGGTGGTATGATGAT
 GGACAATGCAAAAGCGCATGGAGACTAAGGGAGCTGGAGTGACCCCTGAATGTTCTGGAAATGACTTCTGAA
 GATTTAGAAAATGCTCTAAAAGCAGTCATCAATGACAAAAGTTACAAGGAGAACATCATGCGCCTCTCCA
 GCCTTCACAAGGACCGCCGGTGGAGCCGCTGGACCTGGCCGTGTTCTGGGTGGAGTTTGTGATGAGGCA
 CAAGGGCGCGCCACACCTGCGCCCCGACGCCACGACCTCACCTGGTACCAGTACCATTCTTGGACGTG
 ATTGGTTTCTCTTGGCCGTCGTGCTGACAGTGGCCTTCATCACCTTTAAATGTTGTGCTTATGGCTACC
 GGAAATGCTTGGGAAAAAGGGCGAGTTAAGAAAGCCCAAAATCCAAGACCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205752 representing NM_205862
 Red=Cloning site Green=Tags(s)

MACLLRSFQRISAGVFFLALWGMVVGDKLLVVPQDGSOWL SMKDIVEVLSDRGHEIVVVVPEVNLLKES
 KYTRKIYVPYDQEELKNRYQSFNNHFAERSFLTAPQTEYRNNMIVIGLYFINCQSLLDQDRDLNFFK
 ESKFDALFTDPALPCGVILAEYLGLPSVYLFGRFPCSLEHTFSRSPDPVSYIPRCYTKFSDHMTFSQRVA
 NFLVNLLEPYLFYCLFSKYEELASAVLKRVDIITLYQKVSVWLLRYDFVLEYPRPVMPNMVFIGGINCK
 KRKDLSEQEYAYINASGEHGIVVFSLGSMVSEIPEKKAMATADALGKIPQTVLWRYTGTRPSNLANNITL
 YKWL PQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTLNVLEMTSE
 DLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAADHLTWYQYHSLDV
 IGFLLAVVLTVAFITFKCCAYGYRKCLGKGRVKKAHKSKTH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_205862

ORF Size: 1596 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_205862.1](#), [NP_995584.1](#)

RefSeq Size: 1691 bp

RefSeq ORF: 798 bp

Locus ID: 54578

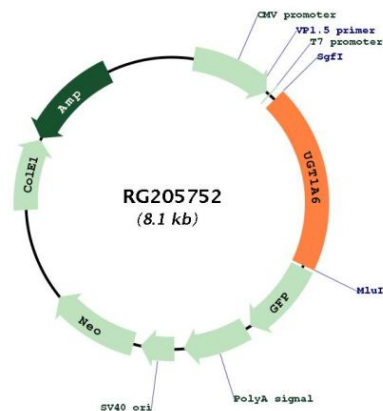
Cytogenetics: 2q37.1

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

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 RG205752