

Product datasheet for **RG221373**

UGT1A5 (NM_019078) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT1A5 (NM_019078) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT1A5
Synonyms:	UDPGT; UDPGT 1-5; UGT1E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221373 representing NM_019078
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACAGGACTCCAGGTTCCCTGCCGAGCTGGCCACAGGACTGCTGCTTCTCCTCAGTGTCCAGC
 CCTGGGCTGAGAGTGGGAAGGTGCTGGTGGTGCCCACTGATGGCAGCCACTGGCTCAGCATGCGGGAGGC
 CTTGCGGGACCTCCATGCGAGAGGCCACCAAGTGGTGGTCTCACCTGGAGGTGAATATGTACATCAAA
 GAAGAGAAGTCTTTCACCTGACAACGATGCCATTTTCATGGACCCAGGACGAATTTGATCGCCTTTTGC
 TGGGTCACTCAATCGTCTTTGAAACAGAACATCTTCTGATGAAATTTCTAGAAGAATGGCAATTAT
 GAACAATATGCTTTGATCATAATAGGCTTTGTGTGGAGCTACTGCATAATGAGGCCCTGATCAGGCAC
 CTGCATGCTACTTCTTTGATGTGGTCTAACAGACCCCTTTCACCTCTGCGCGCGGTGCTGGCTAAGT
 ACCTGTCGATTCCTGCTGTGTTTTCTTGAGGAACATTCCATGTGATTTAGACTTTAAGGGCACACAGTG
 TCCAAACCCTTCTCTATATTCCTAGATTACTAACGACCAATTCAGACCACATGACATTCCTGCAAAGG
 GTCAAGAACATGCTCTACCTCTGGCCCTGCTCCTACCTTTGCCATGCTGTTTCTGCTCCTATGCAAGCC
 TTGCTCTGAGCTTTTTAGAGAGAGGTGTCAGTGGTGGATCTTGTGAGCCATGCATCTGTGTGGCTGTT
 CCGAGGGGACTTTGTGATGGATTACCCAGGCCGATCATGCCAACATGGTCTTCATTGGGGGCATCAAC
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 GACGTGATTGTTTCTCTTGGCCGTGCTGCTGACAGTGGCCTTCATCACCTTTAAATGTTGTGCTTATG
 GCTACCGAAATGCTTGGGGAAAAAGGGCGAGTTAAGAAAGCCCAAAATCCAAGACCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221373 representing NM_019078
 Red=Cloning site Green=Tags(s)

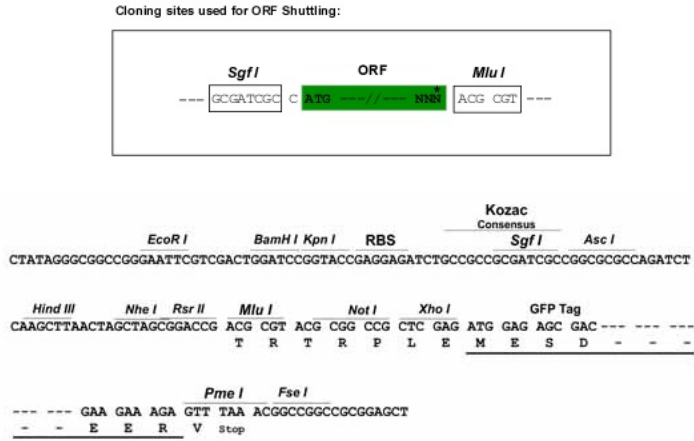
MATGLQVPLPQLATGLLLLLSVQPWAESGKVLVPTDGSWLSMREALRDLHARGHQVVVLTLEVNMYIK
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 LHATSFVVLTDPFHLCAAVLAKYLSIPAVFFLRNIPCDLDFKGTQCPNPSSYIPRLTTNSDHMTFLQR
 VKNMLYPLALSYLCHAVSAPYASLASELQREVSVDLVSHASVWVFRGDFVMDYPRPIMPNMVFIGGIN
 CANGKPLSQEFEAYINASGEHGI VVFLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGRPSNLANN
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 SEDLENALKAVINDKSYKENIMRSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAHADLTWYQYHSL
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TRTRPLE - GFP Tag - V

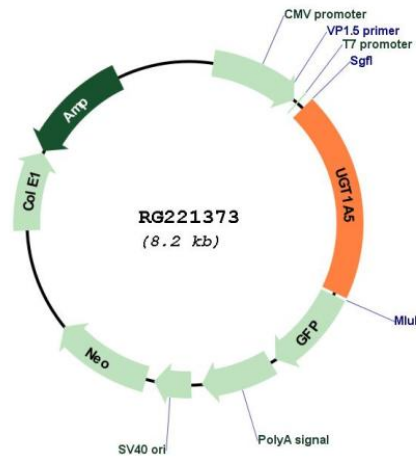
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]