

## Product datasheet for **RG223545**

### UGT2A3 (NM\_024743) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2A3 (NM_024743) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT2A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223545 representing NM\_024743  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGTCTGACAAGTCAGCTTTGGTATTTCTGCTCCTGCAGCTCTTCTGTGTTGGCTGTGGATTCTGTG  
 GGAAAGTCCTGGTGTGGCCCTGTGACATGAGCCATTGGCTTAATGTCAAGGTCATTCTAGAAGAGCTCAT  
 AGTGAGAGGCCATGAGGTAACAGTATTGACTCACTCAAAGCCTTCGTTAATTGACTACAGGAAGCCTTCT  
 GCATTGAAATTTGAGGTGGTCCATATGCCACAGGACAGAACAGAAGAAAATGAAATATTTGTTGACCTAG  
 CTCTGAATGTCTTGCCAGGCTTATCAACCTGGCAATCAGTTATAAAATTAATGATTTTTTTGTTGAAAT  
 AAGAGGAACTTTAAAAATGATGTGTGAGAGCTTTATCTACAATCAGACGCTTATGAAGAAGCTACAGGAA  
 ACCAACTACGATGTAATGCTTATAGACCCTGTGATTCCTGTGGAGACCTGATGGCTGAGTTGCTTGCGAG  
 TCCCTTTTGTGCTCACACTTAGAATTTCTGTAGGAGGCAATATGGAGCGAAGCTGTGGGAACTTCCAGC  
 TCCACTTTCCTATGTACCTGTGCCTATGACAGGACTAACAGACAGAATGACCTTTCTGGAAGAGTAAAA  
 AATTCAATGCTTTCAGTTTTGTTCCACTTCTGGATTACAGGATTACGACTATCATTTTTGGGAAGAGTTTT  
 ATAGTAAGGCATTAGGAAGGCCACTACATTATGTGAGACTGTGGGAAAAGCTGAGATATGGCTAATACG  
 AACATATTTGGGATTTTGAATTTCTCAACCATACCAACCTAACCTTTGAGTTTGTGGAGGATTGCACTGT  
 AAACCTGCCAAAGCTTTGCCTAAGGAAATGGAAAATTTTGTCCAGAGTTCAGGGGAAGATGGTATTGTGG  
 TGTTTTCTCTGGGGTCACTGTTTCAAAATGTTACAGAAGAAAAGGCTAATATCATTGCTTCAGCCCTTGC  
 CCAGATCCACAGAAGGTGTTATGGAGGTACAAAGGAAAAAACCATCCACATTAGGAGCCAATACTCGG  
 CTGTATGATTGGATACCCAGAATGATCTTCTTGGTCATCCAAAACCAAAGCTTTTACTCACTCATGGTG  
 GAATGAATGGGATCTATGAAGCTATTTACCATGGGGTCCCTATGGTGGGAGTTCCCATATTTGGTGATCA  
 GCTTGATAACATAGCTCACATGAAGGCCAAAGGAGCAGCTGTAGAATAAACTTCAAAACTATGACAAGC  
 GAAGATTTACTGAGGGCTTTGAGAACAGTCATTACCGATTCTCTTATAAAGAGAATGCTATGAGATTAT  
 CAAGAATTCACCATGATCAACCTGTAAAGCCCCTAGATCGAGCAGTCTTCTGGATCGAGTTTGTGATGCG  
 CCACAAAGGAGCCAAGCACCTGCGATCAGCTGCCATGACCTCACCTGGTTCAGCACTACTCTATAGAT  
 GTGATTGGGTTCTGCTGACCTGTGTGGCAACTGCTATATTCTTGTTCACAAAATGTTTTTTATTTTCT  
 GTCAAAAATTTAATAAACTAGAAAGATAGAAAAGAGGGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223545 representing NM\_024743  
 Red=Cloning site Green=Tags(s)

MRSDKSALVFLLLQLFCVCGFCGKVLVWPCDMSHWLNKVIILEELIVRGHEVTVLTHSKPSLIDYRKPS  
 ALKFEVHMPQDRTEENEIFVDLALNVLPLSTWQSVIKLNDFFVEIRGLKMMCESFIYNQTLMKKLQE  
 TNYDVMLIDPVI PCGDLMAELLAVPFVLTLRISVGGNMERSCKLPAPLSYVPVPM TGLTDRMTFLERVK  
 NSMLSVLFHFWIQDYDYHFWEFYSKALGRPTTLCETVGKAEIWLIRTYWDFEFPQYPQNFVFGGLHC  
 KPAKALPKEMENFVQSSGEDGIVVFLGSLFQNVTEEKANIIASALAQIPQKVLWRYKGGKPPSTLGANTR  
 LYDWIPQNDLLGHPKTKAFITHGMNGIYEAIYHGVPVGVPIFGDQLDNIAHMKAKGAAVEINFKTMTS  
 EDLLRALRTVITDSSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRSAHDLTWFQHSYID  
 VIGFLLTCVATAIFLFTKCF LFSCQKFNKTRKIEKRE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



*EcoRI*
*BamHI* *KpnI*
RBS
Kozac  
Consensus
*SgfI*
*AscI*

CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

*HindIII*
*NheI* *RsrII*
*MluI*
*NotI*
*XhoI*
GFP Tag

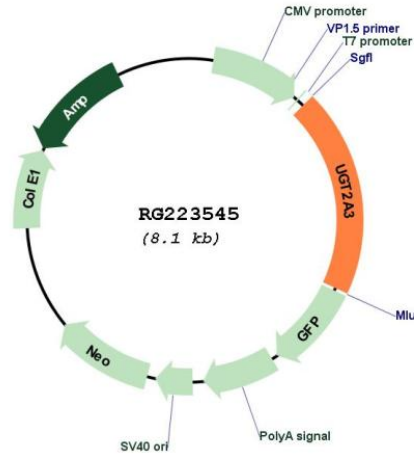
CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E
M E S D - - -

*PmeI*
*FseI*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

**Plasmid Map:**


<b>ACCN:</b>	NM_024743
<b>ORF Size:</b>	1581 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024743.2</a> , <a href="#">NP_079019.2</a>
<b>RefSeq Size:</b>	2974 bp
<b>RefSeq ORF:</b>	1584 bp
<b>Locus ID:</b>	79799
<b>UniProt ID:</b>	<a href="#">Q6UWM9</a>
<b>Cytogenetics:</b>	4q13.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	UDP-glucuronosyltransferases catalyze phase II 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 (By similarity). [UniProtKB/Swiss-Prot Function]