

## Product datasheet for **RG205915**

### UGT2B7 (NM\_001074) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2B7 (NM_001074) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT2B7
Synonyms:	UDPGT 2B7; UDPGT2B7; UDPGT 2B9; UDPGTh-2; UDPGTH2; UGT2B9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205915 representing NM\_001074  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTGAAATGGACTTCAGTAATTTTGTCTAATAACAAGTGGAGCTTTTGTCTTAGCTCTGGGAATTGTG  
 GAAAGGTGCTGGTGTGGCAGCAGAATACAGCCATTGGATGAATATAAAGACAATCCTGGATGAGCTTAT  
 TCAGAGAGGTCATGAGGTGACTGTACTGCATCTTCAGCTTCCATTCTTTTTGATCCCAACAACATCC  
 GCTCTTAAATGAAATTTATCCACATCTTAACTAAAAGTGGAGAAATTCATCATGCAACAGA  
 TTAAGAGATGGTCAGACCTTCCAAAAGATACATTTTGGTTATATTTTCAACAAGTACAGGAAATCATGTC  
 AATATTTGGTGACATAACTAGAAAGTCTGTAAGATGTAGTTTCAAATAAGAAATTTATGAAAAAGTA  
 CAAGAGTCAAGATTTGACGTCATTTTGCAGATGCTATTTTCCCTGTAGTGAGCTGCTGGCTGAGCTAT  
 TTAACATACCCTTTGTGTACAGTCTCAGCTTCTCTCTGGCTACACTTTTAAAAGCATAGTGGAGGATT  
 TATTTTCCCTCCTCCTACGTACCTGTTGTTATGTCAGAATTAAGTATCAATGACTTTTATGGAGAGG  
 GTAAAAATATGATCTATGTGCTTACTTTGACTTTTGGTTCGAAATATTTGACATGAAGAAGTGGGATC  
 AGTTTTATAGTGAAGTCTAGGAAGACCCACTACATTATCTGAGACAATGGGAAAAGCTGACGTATGGCT  
 TATTCGAAACTCCTGGAATTTTCAAGTTCCATATCCACTTTACCAAATGTTGATTTTGTGGAGGACTC  
 CACTGCAAACCTGCCAAACCCCTGCCTAAGGAAATGGAAGACTTTGTACAGAGCTCTGGAGAAAATGGTG  
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 CCTGGCCAGATCCACAAAAGTCTGTGGAGATTTGATGGGAATAACCAGATACCTTAGGTCTCAAT  
 ACTCGGCTCTACAAGTGGATACCCAGAATGACCTTCTAGGTATCCAAAGACCAGAGCTTTTATAACTC  
 ATGGTGGAGCCAATGGCATCTACGAGGCAATCTACCATGGGATCCCTATGGTGGGATTCATTGTTTGC  
 CGATCAACCTGATAACATTTGCTCACATGAAGGCCAGGGGAGCAGCTGTTAGAGTGGACTTCAACACAATG  
 TCGAGTACAGACTTGTGAATGCATTGAAGAGAGTAATTAATGATCCTTCATATAAAGAGAAATGTTATGA  
 AATTATCAAGAATTCAACATGATCAACCAGTGAAGCCCTGGATCGAGCAGTCTTCTGGATTGAATTTGT  
 CATGCGCCACAAAGGAGCTAAACACCTTCGGGTTGCAGCCACGACCTCACCTGGTTCCAGTACCACTCT  
 TTGGATGTGATTGGTTCCTGCTGGTCTGTGTGGCAACTGTGATTTTATCGTCACAAAATGTTGTCTGT  
 TTTGTTTCTGGAAGTTTGTAGAAAAGCAAAGAAGGGAAAAATGAT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG205915 representing NM\_001074  
 Red=Cloning site Green=Tags(s)

MSVKWTSVILLIQLSFCFSSGNCCKVLVWAAEYSHWMNIKTILDELIQRGHEVTVLASSASILFDPNNS  
 ALKIEIYPTSLTKTELENFIMQIKRWSLDPKDFWLYFSQVQEIMSFIDITRKFCKDVVSNKFKMKV  
 QESRFDVIFADAIFFPCSELLAELFNIPFYLSLSPGYTFEKHSGGIFPPSYVPVVMSELTDQMTFMR  
 VKNMIYVLYDFDFEIFDMKKWDQFYSEVLGRPTTSETMGKADVWLIRNSWNFQFPYLLPNVDFVGLL  
 HCKPAKPLPKEMEDFVQSSGENGVVVFSLGSMVSNMTEERANVIASALAIQPKVLRWFDGNKPDTLGLN  
 TRLYKWIQNDLLGHPKTRAFITHGGANGIYEAIYHGIPMVGIPLFADQPDNIAHMKARGA AVRDFNTM  
 SSTDLLNALKRVINDPSYKENVMKLSRIQHDQPKPLDRAVFWIEFVMRHKGAKHLRVA AHDLTWFQYHS  
 LDVIGFLLVCVATVIFIVTKCLFCFWKFARKAKKGNKND

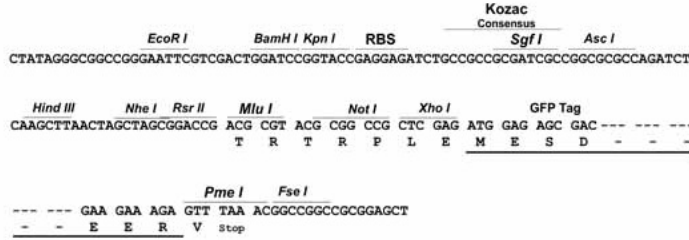
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

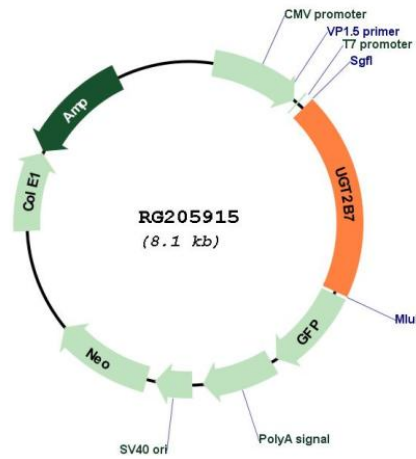
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001074
<b>ORF Size:</b>	1587 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_001074.4</a>
<b>RefSeq Size:</b>	1899 bp
<b>RefSeq ORF:</b>	1590 bp
<b>Locus ID:</b>	7364
<b>UniProt ID:</b>	<a href="#">P16662</a>
<b>Cytogenetics:</b>	4q13.2
<b>Domains:</b>	UDPGT
<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

**Gene Summary:**

The protein encoded by this gene belongs to the UDP-glycosyltransferase (UGT) family. UGTs serve a major role in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This protein is localized in the microsome membrane, and has unique specificity for 3,4-catechol estrogens and estriol, suggesting that it may play an important role in regulating the level and activity of these potent estrogen metabolites. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2017]