

## Product datasheet for **RG227991**

### UGT2B10 (NM\_001144767) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | UGT2B10 (NM_001144767) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                      |
| Symbol:                   | UGT2B10                                       |
| Synonyms:                 | UDPGT2B10                                     |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-AC-GFP (PS100010)                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                        |



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**ORF Nucleotide Sequence:**

>RG227991 representing NM\_001144767  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCTGAAATGGACTACAGTTCTGCTGATACAACCTAGTTTTTACTTTAGCTCTGGGAGTTGTGGAA  
 AGGTGCTGGTATGGGCCGAGAATACAGCCTTTGGATGAATATGAAGACAATCCTGAAAGAAGTTGTTCA  
 GAGAGGTCATGAGGTGACTGTAAGTGGCCTTCCAGCTTCCATTCTTTTATGCCAACGACTCATCCACT  
 CTTAAACTTGAAGTTTATCCTACATCTTAACTAAAAGTGAATTTGAGAAATATCATCATGCAATTGGTTA  
 AGAGATTGTCAGAAATCAAAAAGATACATTTTGGTTACCTTTTCCACAAGAACAAGAAATCCTGTGGGC  
 AATTAATGACATAATTAGAACTTCTGTAAGATGTAGTTTCAAATAAGAACTTATGAAAAACTACAA  
 GAGTCAAGATTTGACATCGTTTTGTCAGATGCTTATTTACCCTGTGAAGACCCACTACATTATCTGAGA  
 CAATGAGGAAAGCTGACATATGGCTTATGCGAACTCCTGGAATTTAAATTTCTCATCCATTCTTACC  
 AAATGTTGATTTTGTGGAGACTCCACTGCAAACCTGCCAAACCCCTACCTAAGGAAATGGAGGAGTTT  
 GTACAGAGCTCTGGAGAAAATGGTGTGTGGTGTCTTCTGGGGTCAATGGTCAGTAACATGACAGAAG  
 AAAGGGCCAACGTAATTGCAACAGCCCTTGCCAAGATCCACAAAAGGTTCTTTGGAGATTTGATGGGAA  
 TAAACCAGATGCCTTAGGTCTCAATACTCGACTGTACAAGTGGATACCCAGAAATGACCTTCTAGGTCAT  
 CCAAAAACCAGAGCTTTTATAACTCATGGTGGAGCCAATGGCATCTATGAGGCAATCTACCATGGGATCC  
 CTATGGTGGGCATTCCATTGTTTTTGTATCAACCTGATAATATTGCTCACATGAAGGCCAAGGGAGCAGC  
 TGTTAGAGTGGACTTCAACACAATGTCGAGTACAGACCTGCTGAATGCACTGAAGACAGTAATTAATGAT  
 CCTTCATATAAAGAGAATATTATGAAATATCAAGAATCAACATGATCAACCAGTGAAGCCCCTGGATC  
 GAGCAGTCTTCTGGATTGAATTTGTCATGCGCCACAAGGAGCCAAACATCTTCGAGTTGCAGCCACAA  
 CCTCACCTGGTTCAGTACCCTCTTTGGATGTGATTGGGTTCCCTGCTGGCTTGTGTGGCAACCGTGCTA  
 TTTATCATCACAAGTGTGTCTGTTTTGTTTCTGGAAGTTTGTAGAAAAGGAAAGAAGGGAAAAAGGG  
 AT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG227991 representing NM\_001144767  
 Red=Cloning site Green=Tags(s)

MALKWTTVLLIQLSFYFSSGSGKVLVWAAEYSLWMNMKILKELVQRGHEVTVLASSASILFDPNDSST  
 LKLEVYPTSLTKTEFENIIMQLVKRLSEIQKDTFWLPFSQEQEILWAINDIIRNFCKDVSNNKLMKKLQ  
 ESRFDIVFADAYLPCGRPTTLETMRKADIWLMRNSWNFKFPHPLPNVDFVGGHLCKPAKPLPKEMEEF  
 VQSSGENGVVVFSLGSMVSNMTEERANVIATALAKIPQKVLWRFDGNKPDALGLNTRLKWIPIQNDLLGH  
 PKTRAFITHGGANGIYEAIYHGIPMVGIPLFFDQPDNIAHMKAKGAAVRVDFNTMSSTDLLNALKTVIND  
 PSYKENIMKLSRIQHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAHNLTWYQYHSLDVIIGFLLACVATVL  
 FIITKCCLFCFWKFARKGKKGKRD

**TRTRPLE** - GFP Tag - V

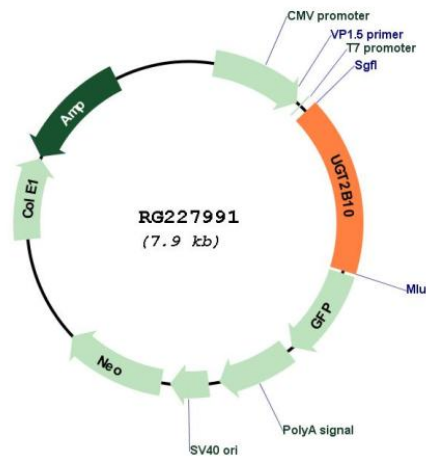
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001144767

ORF Size: 1332 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.

|                               |   |
|-------------------------------|---|
| <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>                | <u><a href="#">NM_001144767.3</a></u>   |
| <b>RefSeq Size:</b>           | 2504 bp   |
| <b>RefSeq ORF:</b>            | 1335 bp   |
| <b>Locus ID:</b>              | 7365  |
| <b>UniProt ID:</b>            | <u><a href="#">P36537</a></u>   |
| <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>          | UDPGT is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds.[UniProtKB/Swiss-Prot Function]  |