

Product datasheet for **RG210178**

UGT2B11 (NM_001073) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2B11 (NM_001073) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT2B11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210178 representing NM_001073
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTCTGAAATGGACTTCAGTTCCTTCTGCTGATACATCTCAGTTGTTACTTTAGCTCTGGGAGTTGTG
 GAAAAGTCTGGTGTGGGCCGAGAATACAGCCATTGGATGAATATGAAGACAATCCTGAAAAGAGCTTGT
 TCAGAGAGGTCATGAGGTGACTGTACTGCGCATCTTCAGCTTCCATTCTTTTTGATCCCAATGATGCATCC
 ACTCTTAAATTTGAAGTTTATCCTACATCTTAACTAAAAGTGAATTTGAGAATATCATCATGCAACAGG
 TTAAGAGATGGTCAGACATTCGAAAAGATAGCTTTTGGTTATATTTTTCACAAGAACAAGAAATCCTGTG
 GGAATTATATGACATATTTAGAACTTCTGTAAGATGTAGTTTCAAATAAGAAAGTTATGAAAAACTA
 CAAGAGTCAAGATTTGACATCGTTTTTGCAGATGCTGTTTTTCCCTGGTGAGCTGCTGGCTGCGCTAC
 TTAACATACGGTTTGTGTACAGTCTCCGCTTACTCCTGGCTACACAATTGAAAGGCACAGTGGAGGACT
 GATTTTCCCTCCTCCTACATACCTATTGTTATGTCAAATTAAGTGATCAAATGACTTTTCATGGAGAGG
 GTAAAAATATGATCTATGTGCTTATTTTACTTTTGGTTCCAATGTCTGATATGAAGAAGTGGGATC
 AGTTTTACAGTGAAGTTTTAGGAAGACCCACTACCTTATTTGAGACAATGGGAAAAGCTGACATATGGCT
 TATGCGAAACTCCTGGAGTTTTCAATTTCTCATCCATCTTACCAAACGTTGATTTTGTGGAGGATTC
 CACTGCAAACCTGCCAAACCCCTACCTAAGGAAATGGAGGAGTTGTACAGAGCTCTGGAGAAAATGGTG
 TTGTGGTGTCTCTGCGGTGAGTATAAGTAACATGACAGCAGAAAGGGCCAATGTAATTGCAACAGC
 CCTTGCCAAGATCCCAAAAAGTTCTGTGGAGATTTGACGGGAATAACCAGATGCCTTAGGTCTCAAT
 ACTCGGCTGTACAAGTGGATACCCAGAATGACCTTCTAGGTATCCAAAAACCAGAGCTTTTATAACTC
 ATGGTGGAGCCAATGGCATCTATGAGGCAATCTACCATGGGATCCCTATGGTGGGCAATTCATTGTTTTT
 TGATCAACCTGATAACATTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGATTGGACTTCAACACAATG
 TCGAGTACAGACCTGCTGAATGCACTGAAGACAGTAATTAATGATCCTTTATATAAAGAGAATATTATGA
 AATTATCAAGAATTCAACATGATCAACCAGTAAAGCCCTGGATCGAGCAGTCTTCTGGATTGAATTTGT
 CATGCCCCACAAAGGAGCCAAACACCTTCGAGTTGCAGCCATGACCTCACCTGGTTCCAGTACCACTCT
 TTGGATGTGATTGGTTTTCTGCTGGCCTGTGTGGCAACTGTGATATTTATCATCACAAAGTTTTGTCTGT
 TTTGTTTCTGGAAGTTTCTAGAAAAGGAAGAAGGGAAAAAGAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210178 representing NM_001073
 Red=Cloning site Green=Tags(s)

MTLKWTSVLLLLIHLSCYFSSGSCGKVLVWAAEYSHWMNMKILKELVQRGHEVTVLASSASILFDPNDAS
 TLKFEVYPTSLTKTEFENIIMQQVQRWSDIRKDSFWLYFSQEQEILWELYDIFRNFCKDVVSNKVMKKL
 QESRFDIVFADAVFPCGELLAALLNIRFVYSLRFTPGYTIERHSGGLIFPPSYIPIVMSKLSQMTFMER
 VKNMIYVLYDFWFQMSDMKKWDQFYSEVLGRPTTLFETMGKADIWLMRNSWSFQFPHFPLPNVDFVGGF
 HCKPAKPLPKEMEEFVQSSGENGVVVFSLGSVISNMTAERANVIATALAKIPQKVLWRFDFGNKPDALGLN
 TRLYKWI PQNDLLGHPKTRAFITHGGANGIYEIYHGIPMVGIPLFFDQPDNIAHMKAKGAAVRLDFNTM
 SSTDLLNALKTVINDPLYKENIMKLSRIQHDQPVKPLDRAVFWIEFVMPHKGAKHLRVAHAHDLTFWQYHS
 LDVIGFLLACVATVIFIITKFLFCFWKFARKGKKGKRD

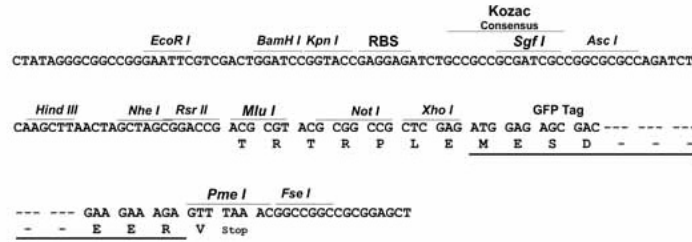
TRTRPLE - GFP Tag - V

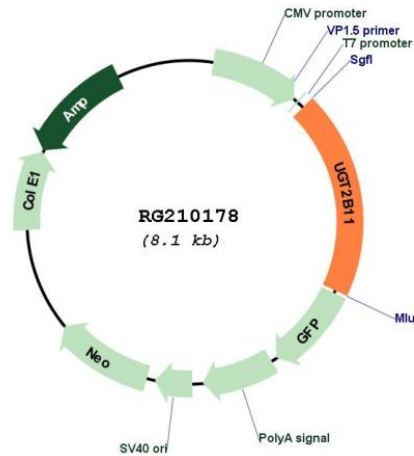
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001073

ORF Size: 1587 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_001073.3
RefSeq Size:	1722 bp
RefSeq ORF:	1590 bp
Locus ID:	10720
UniProt ID:	O75310
Cytogenetics:	4q13.2
Domains:	UDPGT
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:	UDPGT is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds.[UniProtKB/Swiss-Prot Function]