

## Product datasheet for **RG237774**

### UGT (UGT2B4) (NM\_001297615) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UGT (UGT2B4) (NM_001297615) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT2B4
Synonyms:	HLUG25; UDPGT2B4; UDPGTh-1; UDPGTH1; UGT2B11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237774 representing NM_001297615. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGCTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTATGAAATGGACTTCAGCTCTTCTGCTGATACAGCTGAGCTGTTACTTTAGCTCTGGGAGTTGT
GGAAAGGTGCTGGTGTGGCCACAGAATTCAGCCACTGGATGAATATAAAGACAATCCTGGATGAACTT
GTCCAGAGAGGTCATGAGGTGACTGTATTGGCATCTTCAGCTTCCATTTCTTTTCGATCCCAACAGCCCA
TCTACTCTAAAATTTGAAGTTTATCCTGTATCTTAACTAAAAGTGGATTTGAGGATATTATCAAGCAG
CTGGTTAAGAGATGGGCAGAATTCAAAAGACACATTTTGGTCATATTTTTCACAAGTACAAGAAATC
ATGTGGACATTTAATGACATACTTAGAAAGTTCTGTAAGGATATAGTTTCAAATAAGAACTTATGAAG
AAACTACAGGAGTCAAGATTTGATGTTGTTCTTGCAAGTCTGTTTCCCTTTGGTGGAGCTGCTGGCC
GAGTTACTTAAAATACCCTTTGTCTACAGCCTCCGCTTCTCCTGGCTACGCAATTGAAAAGCATAGT
GGAGGACTTCTGTTCCCTCCTTCTATGTGCCTGTTGTTATGTCAGAACTAAGTGACCAAATGACTTTC
ATAGAGAGGGTAAAAATATGATCTATGTGCTTTATTTTGAATTTGGTTCCAAATTTTGACATGAAG
AAGTGGGATCAGTTCTACAGTGAAGTTCTAGGAAGACCCACTACGTTATCTGAGACAATGGCAAAAGCT
GACATATGGCTTATTCGAAACTACTGGGATTTTCAATTTCTCACCCTCTTACCAAATGTTGAGTTC
GTTGGAGGACTCCACTGCAAACCTGCCAAACCCCTACCGAAGGAAATGGAAGAGTTTGTCCAGAGCTCT
GGAGAAAATGGTGTGTTGTTTCTCTGGGGTTCGATGGTCAGTAACACGTCAGAAGAAAGGGCCAAAT
GTAATTGCATCAGCCCTTGCCAAGATCCCAAAAAGGTTCTGTGGAGATTTGATGGGAATAAACCCAGAT
ACTTTAGGACTCAATACTCGGCTGTACAAGTGGATACCCAGAATGATCTTCTTGATATAAAGAGAATG
CTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



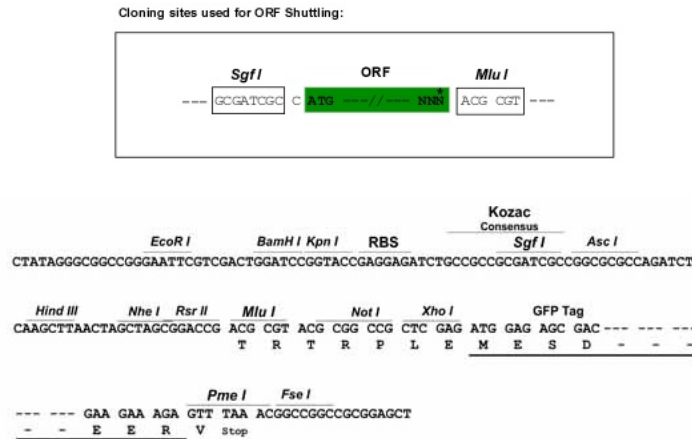
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237774  
 Blue=ORF Red=Cloning site Green=Tag(s)

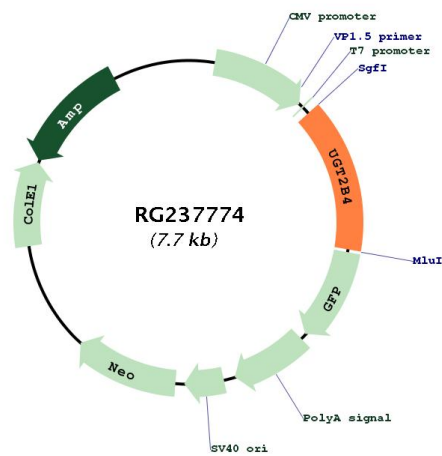
MSMKWTSALLLIQLSCYFSSGSCGKVLVWPTEFSHWMNIKTILDELVQRGHEVTVLASSASISFDPNSP  
 STLKFEVYVPSLTKTEFEDIKQLVKRWAELPKDTFWSYFSQVQEIIMWTFNDILRKFCCKDIVSNKKLMK  
 KLQESRFDVVLADAVFPFGELLAELLKIPFVYSLRFSPGYAIEKHSGLLFPSPYVPMSELSQDMTF  
 IERVKNMIYVLYFEFWFQIFDMKKWDQFYSEVLGRPTTLSETMAKADIWLIRNYWDFQFPHPLLPNVEF  
 VGGLHCKPAKPLPKEMEETFQSSGGENGVVVFSLGSMVSNTSEERANVIASALAKIPQKVLWRFDGNKPD  
 TLGLNTRLYKWIPQNDLLDIKRLM  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNTVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001297615
<b>ORF Size:</b>	1107 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>RefSeq:</b>	<a href="#">NM_001297615.2</a>
<b>RefSeq Size:</b>	1899 bp
<b>RefSeq ORF:</b>	1110 bp
<b>Locus ID:</b>	7363
<b>UniProt ID:</b>	<a href="#">P06133</a>
<b>Cytogenetics:</b>	4q13.3
<b>Protein Families:</b>	Druggable Genome, 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>MW:</b>	43.2 kDa
<b>Gene Summary:</b>	UDPGTs are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This isozyme is active on polyhydroxylated estrogens (such as estriol, 4-hydroxyestrone and 2-hydroxyestriol) and xenobiotics (such as 4-methylumbelliferone, 1-naphthol, 4-nitrophenol, 2-aminophenol, 4-hydroxybiphenyl and menthol). It is capable of 6 alpha-hydroxyglucuronidation of hyodeoxycholic acid.[UniProtKB/Swiss-Prot Function]