

Product datasheet for **RG237933**

UGT (UGT2B4) (NM_001297616) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT (UGT2B4) (NM_001297616) 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:	>RG237933 representing NM_001297616. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
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GAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237933
 Blue=ORF Red=Cloning site Green=Tag(s)

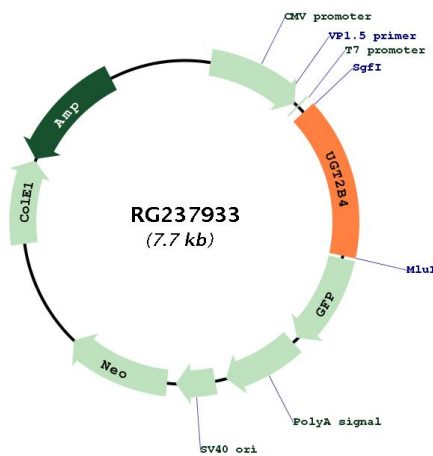
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 EFVGLHCKPAKPLPKEMEEFVQSSGENGVVVFSLGSMVSNSEERANVIASALAKIPQKVLWRFDGNK
 PDTLGLNTRLKWIQNDLLGHPKTRAFITHGGANGIYEAIYHGIPMVGVPFLFADQPDNIAHMKAKGAA
 VSLDFHTMSSTDLLNALKTVINPDKENAMKLSRIHHDQPKPLDRAVFWIEFVMRHKGAKHLRVAAH
 DLTFWQYHSLDVTGFLACVATVIFITKCLFCVWKFVRTGKKGKRD
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 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001297616
ORF Size:	1176 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).
RefSeq:	NM_001297616.1 , NP_001284545.1
RefSeq Size:	1949 bp
RefSeq ORF:	1179 bp
Locus ID:	7363
UniProt ID:	P06133
Cytogenetics:	4q13.3
Protein Families:	Druggable Genome, 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
MW:	45 kDa
Gene Summary:	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]