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# Product datasheet for RC237933

## UGT (UGT2B4) (NM_001297616) Human Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | UGT (UGT2B4) (NM_001297616) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | UGT2B4 |
| **Synonyms:** | HLUG25; UDPGT2B4; UDPGTh-1; UDPGTH1; UGT2B11 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **ORF Nucleotide Sequence:** | >RC237933 representing NM_001297616<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGTTTTTTGCTCTCTTACATGTCTCATCAACGAATGGATTAGATGCTGTTTTCCCCTTTGGTGAGCTGC<br>TGGCCGAGTTACTTAAAATACCCTTTGTCTACAGCCTCCGCTTCTCTCCTGGCTACGCAATTGAAAAGCA<br>TAGTGGAGGACTTCTGTTCCCTCCTTCCTATGTGCCTGTTGTTATGTCAGAACTAAGTGACCAAATGACT<br>TTCATAGAGAGGGTAAAAAATATGATCTATGTGCTTTATTTTGAATTTTGGTTCCAAATATTTGACATGA<br>AGAAGTGGGATCAGTTCTACAGTGAAGTTCTAGGAAGACCCACTACGTTATCTGAGACAATGGCAAAAGC<br>TGACATATGGCTTATTCGAAACTACTGGGATTTTCAATTTCCTCACCCACTCTTACCAAATGTTGAGTTC<br>GTTGGAGGACTCCACTGCAAACCTGCCAAACCCCTACCGAAGGAAATGGAAGAGTTTGTCCAGAGCTCTG<br>GAGAAAATGGTGTTGTGGTGTTTTCTCTGGGGTCGATGGTCAGTAACACGTCAGAAGAAAGGGCCAATGT<br>AATTGCATCAGCCCTTGCCAAGATCCCACAAAAGGTTCTGTGGAGATTTGATGGGAATAAACCAGATACT<br>TTAGGACTCAATACTCGGCTGTACAAGTGGATACCCCAGAATGATCTTCTTGGTCACCCAAAAACCAGAG<br>CTTTTATAACTCATGGTGGAGCCAATGGCATCTATGAGGCAATCTACCATGGAATCCCTATGGTGGGCGT<br>TCCATTGTTTGCAGATCAACCTGATAACATTGCACACATGAAGGCCAAGGGAGCAGCTGTTAGTTTGGAC<br>TTCCACACAATGTCGAGTACAGACTTACTCAATGCACTGAAGACAGTAATTAATGATCCTTTATATAAAG<br>AGAATGCTATGAAATTATCAAGAATTCATCATGATCAACCAGTGAAGCCCCTTGATCGAGCAGTCTTCTG<br>GATTGAATTTGTCATGCGCCATAAAGGAGCCAAGCACCTTCGGGTTGCAGCCCACGACCTCACCTGGTTC<br>CAGTACCACTCTTTGGATGTGACTGGGTTCCTGCTGGCCTGTGTGGCAACTGTGATATTCATCATCACAA<br>AATGTCTGTTTTGTGTCTGGAAGTTTGTTAGAACAGGAAAGAAGGGGAAAAGAGAT<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |



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**Protein Sequence:**

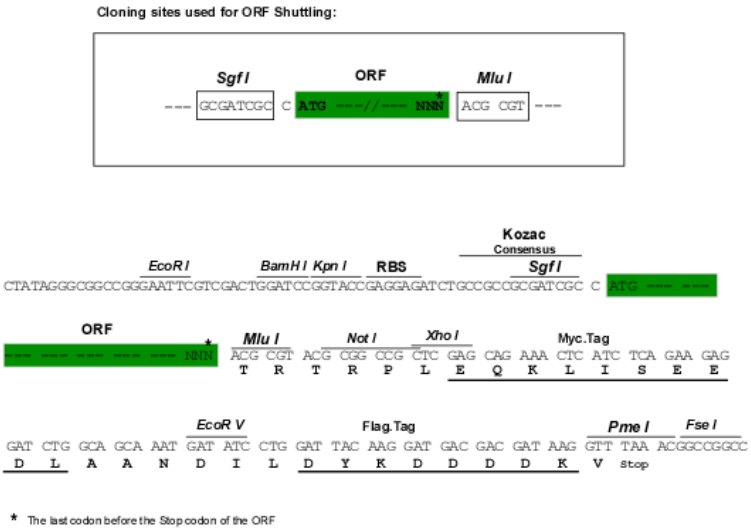
>RC237933 representing NM_001297616
Red=Cloning site Green=Tags(s)

MFFALLHVSSTNGLDAVFPFGELLAELLKIPFVYSLRFSPGYAIEKHSGGLLFPPSYVPVVMSELSDQMT
FIERVKNMIYVLYFEFWFQIFDMKKWDQFYSEVLGRPTTLSETMAKADIWLIRNYWDFQFPHPLLPNVEF
VGGLHCKPAKPLPKEMEEFVQSSGENGVVVFSLGSMVSNTSEERANVIASALAKIPQKVLWRFDGNKPDT
LGLNTRLYKWIPQNDLLGHPKTRAFITHGGANGIYEAIYHGIPMVGVPLFADQPDNIAHMKAKGAAVSLD
FHTMSSTDLLNALKTVINDPLYKENAMKLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHDLTWF
QYHSLDVTGFLLACVATVIFIITKCLFCVWKFVRTGKKGKRD

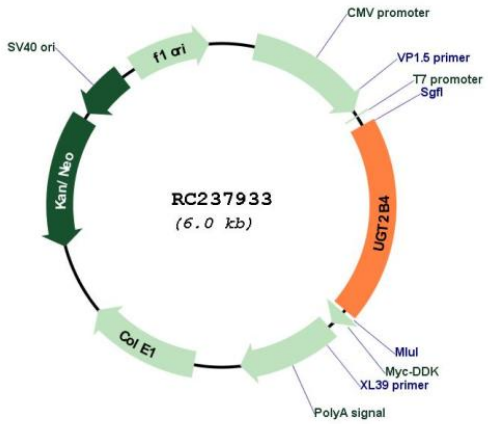
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_001297616

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|---|---|
| **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). |
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_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] |