

Product datasheet for **RC237774**

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: 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: >RC237774 representing NM_001297615
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTATGAAATGGACTTCAGCTCTTCTGCTGATACAGCTGAGCTGTTACTTTAGCTCTGGGAGTTGTG
GAAAGGTGCTGGTGGCCACAGAATTCAGCCACTGGATGAATATAAAGACAATCCTGGATGAAGTTGT
CCAGAGAGGTCATGAGGTGACTGTATTGGCATCTTCAGCTCCATTTCTTCGATCCCAACAGCCCATCT
ACTCTTAAATTTGAAGTTTATCCTGTATCTTAACTAAAAGTGGATTTGAGGATATTATCAAGCAGCTGG
TTAAGAGATGGGCAGAAGTCCAAAAGACATTTTGGTCATATTTTCCAAGTACAAGAAATCATGTG
GACATTTAATGACATACTTAGAAAGTTCTGTAAGGATATAGTTTCAAATAAGAACTTATGAAGAACTA
CAGGAGTCAAGATTTGATGTTGTTCTTGCAGATGCTGTTTTCCCTTTGGTGAGCTGCTGGCCGAGTTAC
TAAAAATACCCTTTGCTACAGCCTCCGCTTCTCCTGGCTACGCAATTGAAAAGCATAGTGGAGGACT
TCTGTTCCCTCCTTCTATGTGCCTGTTGTTATGTCAGAACTAAGTGACCAATGACTTTCATAGAGAGG
GTAAAAAATATGATCTATGTGCTTATTTTGAATTTTGGTCCAAATATTTGACATGAAGAAGTGGGATC
AGTCTACAGTGAAGTTCTAGGAAGACCCACTACGTTATCTGAGACAATGGCAAAGCTGACATATGGCT
TATTCGAAACTACTGGGATTTTCAATTTCTCACCCACTCTTACCAAATGTTGAGTTCGTTGGAGGACTC
CACTGCAAACCTGCCAAACCCCTACCGAAGGAAATGGAAGAGTTTGTCCAGAGCTCTGGAGAAAAATGGTG
TTGTGGTGTCTCTGGGGTCGATGGTCAGTAACACGTCAGAAGAAAGGGCCAATGTAATTGCATCAGC
CCTTGCCAAGATCCCAAAAAGTTCTGTGGAGATTTGATGGGAATAACCAGATACTTTAGGACTCAAT
ACTCGGCTGTACAAGTGGATAACCCAGAATGATCTTCTTGATATAAAGAGAATGCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237774 representing NM_001297615
Red=Cloning site Green=Tags(s)

MSMKWTSALLLIQLSCYFSSGSCGKVLVWPTEFSHWMNIKTILDELVQRGHEVTVLASSASISFDPNPS
 TLKFEVYPVSLTKTEFEDIKQLVKRWAE LPKDTFWSYFSQVQEI MWTFNDILRKFCCKDIVSNKLMKKL
 QESRFDVVLADAVFPFGELLAELLKIPFVYSLRFS PGYAI EKHSGLLFPSPSYVPVVMSELS DQMTFIER
 VKNMIYVLYFEFWFQIFDMKKWDQFYSEVLGRPTT LSETMAKADIWLIRNYWDFQFPHPLLPNVEFVGGL
 HCKPAKPLPKEME EFVQSSGENGVV VVSLGSMVSNTSEERANVIASALAKIPQKVLWRF DGNKPD T LGLN
 TRLYKWIPQNDLLDIK RML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

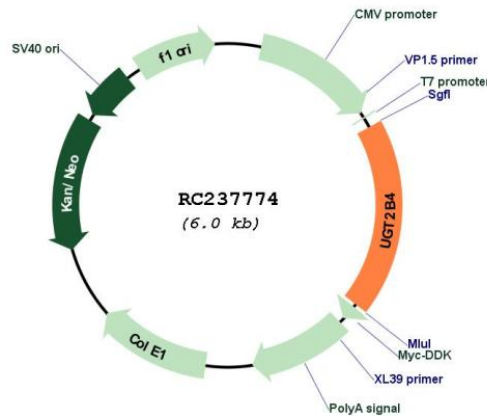
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297615

ORF Size:	1107 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_001297615.2
RefSeq Size:	1899 bp
RefSeq ORF:	1110 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:	43.2 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]