

Product datasheet for **RC230167**

UGT3A2 (NM_001168316) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | UGT3A2 (NM_001168316) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | UGT3A2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC230167 representing NM_001168316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGGGCAGCGAGTCTTCTCTAGTGGGCTTCTTCTCCCTGGGGTCTGCTCTCAGAGGCTGCCA
 AAATCCTGACAATATCTACAGTAGATTTTAAAAAGGAAGAAAAATCATATCAAGTTATCAGTTGGCTTGC
 ACCTGAAGATCATCAAAGAGAATTTAAAAAGATTTTGTATTTCTTCTGGAAAGAACTTTAGGTGGCAGA
 GGAAAAATTTGAAACTTATTAATGTTCTAGAATACTTGGCGTTGCAGTGCAGTCATTTTTTAAATAGAA
 AGGATATCATGGATTCCTTAAAGAATGAGAATTCGACATGGTGATAGTTGAACTTTTGACTACTGTCC
 TTTCTGATTGCTGAGAAGCTTGGGAAGCCATTTGTGGCCATTCTTCCACTTCATTGCGCTCTTTGGAA
 TTTGGGCTACCAATCCCCTGTCTTATGTTCCAGTATCCGTTCCCTTGTGACTGATCACATGGACTTCT
 GGGGCCGAGTGAAGAATTTCTGATGTTCTTTAGTTTCTGCAGGAGGCAACAGCACATGCAGTCTACATT
 TGACAACACCATCAAGGAACATTTACAGAAGGCTCTAGGCCAGTTTTGTCTCATCTTCTACTGAAAGCA
 GAGTTGTGGTTCACTAAGCTGACTTTGCCTTTGATTTTGTCTCGACTCTGCTTCCCAACTGTTTATG
 TTGGAGGCTTGATGGAAAAACCTATTAACCAAGTACCACAAGACTTGGAGAACTTCAATGCCAAGTTTGG
 GGACTCTGGTTTTGTCCTTGTGACCTTGGGCTCCATGGTGAACACCTGTCAGAATCCGGAATCTTCAAG
 GAGATGAACAATGCCTTTGCTCACCTACCCCAAGGGGTGATATGGAAGTGTGAGTGTCTCATTGGCCCA
 AAGATGTCACCTGGCTGCAAAATGTGAAAATTTGGACTGGCTTCTCAGAGTGCCTCTGGCTCACCC
 AAGCATCCGCTGTTTGTACCCACGGCGGCAGAATAGCATAATGGAGGCCATCCAGCATGGTGTGCC
 ATGGTGGGGATCCCTCTCTTTGGAGACCAGCCTGAAAACATGGTCCGAGTAGAAGCAAAAAGTTTGGTG
 TTTCTATTCAGTTAAAGAAGCTCAAGGCAGAGACATTGGCTCTTAAGATGAAACAATCATGGAAGACAA
 GAGATACAAGTCCGCGCAGTGGCTGCCAGTGTATCCTGCGCTCCCACCCGCTCAGCCCAACAGCGG
 CTGGTGGGCTGGATTGACCACGCTCTCCAGACAGGGGGCGCAGCACCTCAAGCCCTATGTCTTTCAGC
 AGCCCTGGCATGAGCAGTACCTGCTCGACGTTTTTGTGTTTCTGCTGGGGCTCACTCTGGGGACTCTATG
 GCTTTGTGGGAAGCTGCTGGGCATGGCTGTCTGGTGGCTGCGTGGGGCCAGAAAGGTGAAGGAGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230167 representing NM_001168316
 Red=Cloning site Green=Tags(s)

MAGQRVLLL VGFLLPVLL SEAAKILTISTVDFKKEEKSYQVISWLAPEDHQREFKKSFDFFLEETLGGR
 GKFENLLNVLEYLALQCSHFLNRKDIMDSLKNENFDMVIVETFDYCPFLIAEKLGKPFVAILSTSFGLSLE
 FGLPIPLSYVPVFRSLLTDHMDFWGRVKNFLMFFSFCRRQQHMSTFDNTIKEHFTEGSRPVLSHLLLKA
 ELWFINSDFAFDFARPLLPNTVYVGGLEMEKPIKPVQDLENFIAKFGDSGFVLTGSMVNTCQNPFIK
 EMNNAFAHLPQGVWKCQCSHWPKDVHLAANVKIVDWLPQSDLLAHPISIRLFVTHGGQNSIMEAIQHGVP
 MVGIPLFGDPENMVRVEAKKFGVSIQLKLLKAETLALKMKQIMEDKRYKSAVAASVILRSHPLSPTQR
 LVGWIDHVLQTGGATHLKPYPVFPQWHEQYLLDVFVFLGLTLGLWLCGKLLGMAVWVLRGARKVKET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8007_c02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001168316

ORF Size: 1467 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.
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_001168316.2](#)

RefSeq ORF: 1470 bp

Locus ID: 167127

UniProt ID: [Q3SY77](#)

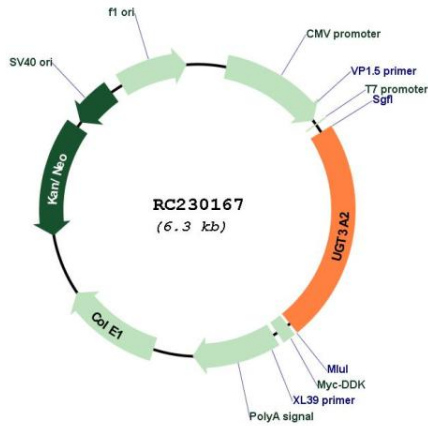
Cytogenetics: 5p13.2

Protein Families: Transmembrane

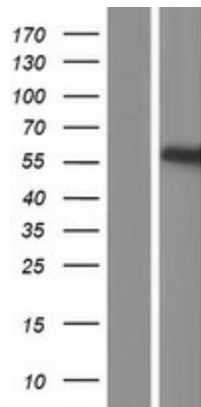
MW: 56.1 kDa

Gene Summary: UDP-glucuronosyltransferases catalyze phase II biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase water solubility and enhance excretion. They are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC230167



Western blot validation of overexpression lysate (Cat# [LY433167]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230167 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).