

Product datasheet for **RG209702**

UGT3A1 (NM_152404) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT3A1 (NM_152404) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT3A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209702 representing NM_152404
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGGGCAGCGGGTCTGCTTCTAGTGGCCTTCTTCTTTCTGGGGTCTGCTCTCAGAGGCTGCCA
 AAATCCTGACAATATCTACACTGGTGGAGCCATTACCTACTGTTGGACCGGGTCTCAGATTCTTCA
 AGAGCATGGTCATAATGTGACTATGCTTCATCAGAGTGGAAAGTTTTTATCCCAGATATTAAGAGGAG
 GAAAAATCATACCAAGTTATCAGGTGGTTTTACCTGAAGATCATCAAAAAAGAATTAAGAAGCATTTTG
 ATAGCTACATAGAAACAGCATTGGATGGCAGAAAAGAATCTGAAGCCCTTGTAAGCTAATGGAAATATT
 TGGGACTCAATGTAGTTATTTGCTAAGCAGAAAGGATATAATGGATTCCTTAAAGAATGAGAATATGAT
 CTGGTATTTGTTGAAGCATTGATTTCTGTTCTTCTGATTGCTGAGAAGCTTGTGAAACCATTGTGG
 CCATTCTCCACCACATTCGGCTCTTTGGATTTGGGCTACCAAGCCCCTTGTCTTATGTTCCAGTATT
 CCCTTCTTGCTGACTGATCACATGGACTTCTGGGCGGAGTGAAGAATTTCTGATGTTCTTTAGTTTC
 TCAGGAGCCAATGGGACATGCAGTCTACATTTGACAACACCATCAAGGAGCATTCCCAGAAAGGCTCTA
 GGCCAGTTTTGTCTCATCTTCTACTGAAAGCAGAGTTGTGGTTTGTAACTCTGATTTTGCCTTTGATT
 TGCCCGGCCCTGCTTCCCAACTGTTTATATTGGAGGCTTGATGGAAAACTATTAACAGTACCA
 CAAGACTTGGACAACCTCATTGCCAACTTTGGGGATGCAGGGTTTGCCTTGTTGGCCTTTGGCTCCATGT
 TGAACACCCATCAGTCCCAGGAAGTCTCAAGAAGATGCACAATGCCTTTGCCACCTCCCTCAAGGAGT
 GATATGGACATGTGAGAGTCTCATTGGCCAGAGATGTTCAATTTGGCCACAAATGTGAAAATTGTGGAC
 TGGCTTCTCAGAGTACCTCCTGGCTCACCCAGCATCCGCTTTTTGTCACTCATGGTGGCAGAAACA
 CGCTAATGGAGGCCATCCGTCATGGTGTGCCATGGTGGGATTACCAGTCAATGGAGACCAGCAGGAAA
 CATGGTCCGAGTAGTAGCCAAAAATTATGGTGTCTCTATCCGGTTGAATCAGGTCACAGCCGACACACTG
 ACACCTTACAATGAAACAAGTCATAGAAGACAAGAGGTACAAGTCGGCAGTGGTGGCAGCCAGTGTATCC
 TGCACTCTCAGCCCTGAGCCCCGACAGCGGCTGGTGGGCTGGATCGACCACATCCTCCAGACTGGGGG
 AGCGACGCACCTCAAGCCCTATGCCTTCCAGCAGCCTTGGCATGAGCAGTACCTCATTGATGCTTTGTG
 TTTCTGCTGGGGCTCACTCTGGGCACTATGTGGCTTTGTGGGAAGCTGCTGGGTGTGGTGGCCAGGTGGC
 TGCGTGGGGCCAGGAAGGTGAAGAAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209702 representing NM_152404
 Red=Cloning site Green=Tags(s)

MVGRVLLLVAFLLSGVLLSEAAKILTIISTLGGSHYLLLDKRVQILQEHGHNVTMLHQSGKFLIPDIKEE
 EKSYSQVIRWFSPEDHQRIKKHFDYSIETALDGRKESEALVKLMEIFGTQCSYLLSRKDIMDSLKNENYD
 LVFVEAFDFCSFLIAEKLKPFVAILPTTFGLDFGLPSPLSYVPVFPSSLTDHMDFWGRVKNFLMFFSF
 SRSQWDMQSTFDNTIKEHFPEGSRPVLSHLLKAEWVNSDFAFDFARPLLNTVYIGGLMEKPIKPVV
 QDLDNFIANFGDAGFVLVAFGSMNTHQSQEVLLKMHNAFAHLPGQVIWTCQSSHWRPRVHLATNVKIVD
 WLPQSDLLAHPSIRLFVTHGGQNSVMEAIRHGVPVGLPVNGDQHGMMVRVVAKNYGVSIKLNQVADTL
 TLTMKQVIEDKRYKSAVVAASVILHSQPLSPAQRLLVGVWIDHILQTGGATHLKPYAFQQPWHEQYLIDVVF
 FLLGLTLGTMWLCGKLLGVVARWLRGARKVKKT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_152404

ORF Size: 1569 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_152404.4](#)

RefSeq Size: 2823 bp

RefSeq ORF: 1572 bp

Locus ID: 133688

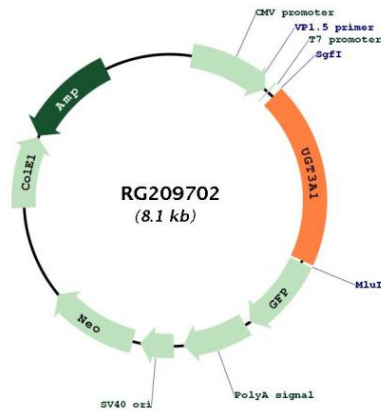
UniProt ID: [Q6NUS8](#)

Cytogenetics: 5p13.2

Protein Families: Transmembrane

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 RG209702