

Product datasheet for **RG225904**

UGT2A2 (NM_001105677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2A2 (NM_001105677) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT2A2
Synonyms:	UDPGT 2A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225904 representing NM_001105677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTAAGAAGTTTGTCCAGATGCTGGTTTTTAAATTTGACTCTGACTGAAGTTGTCTAAGTGGGAATG
 TGTTAATTTGGCCTACAGATGGTAGCCATTGGTTAAATATTAAGATTATTCTAGAAGAGTTGATTCAAAG
 AAATCACAAATGTGACTGTACTGGCTTCATCAGCAACTCTATTCATCAACTCCAATCCCGATTCTCCTGTG
 AATTTTGAAGTGATACCTGTTTCTACAAGAAGAGCAATATAGATTCCTAATTGAGCATATGATAATGC
 TGTGGATTGACCATAGACCAACTCCTCTACAATATGGGCTTTCTACAAAGAACTAGGAAAACTCTAGA
 CACTTTCTTTCAAATTAACATACAACCTCTGTGATGGTGTACTAAAGAACCCAAAGTTGATGGCAAGACTT
 CAGAAAGTGGTTTTGATGTGTTGGTAGCAGCCAGTAAACAATCTGTGGTGATCTTGTGCTCTGAAAT
 TAGGAATCCATTTATGTACACATTGAGGTTCTCTCCAGCATCAACAGTGGAGAGACTGTGGGAAAT
 CCCAGCACCAGTCTCCTATGTACCGGCAGCCTTATCAGAGCTCACTGACCAGATGACCTTTGGTGAAGG
 ATTAATAATACCATATCTTATTCTCTGCAAGACTATATATTTTCAGTCCTACTGGGGAGAATGGAATTCAT
 ACTATAGCAAAATTTTAGGAAGACCCACTACGTTATGTGAGACTATGGGGAAAGCTGAAATTTGGTTAAT
 CCGAACATATTGGGATTTTGAATTTCTCGTCCATACTTACCTAATTTTGAGTTTGTGGAGATTGCAC
 TGCAAACCTGCCAAACCTTTACCTAAGGAAATGGAAGAATTTATCCAGAGCTCAGGTAATAATGGTGTG
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 CAGCTCTTTGATTGGATACCCAGAATGATCTTCTTGGACATCCCAAACCAAAGCTTTTATCACTCATG
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 TCAGCCTGATAACATTGCTCACATGAAGGCCAAAAGGAGCAGCTGTGGAAGTGAACCTAAACACAATGACA
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 TATCAAGAATTCACCATGATCAACCTGTAAAGCCCTGGATCGAGCAGTCTTCTGGATCGAGTTTGTGAT
 GCGCCACAAGGAGCCAAGCACCTTCGGGTTGCAGCCATGACCTCACCTGGTTCAGTACCCTCTTTG
 GATGTAATTTGGTCTTGTGCTGTGTGACAACGGCTATATTTTTGGTCATACAATGTTGTTTGTGTTT
 CCTGTCAAAAATTTGGTAAGATAGGAAAGAAGAAAAAAGAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225904 representing NM_001105677
 Red=Cloning site Green=Tags(s)

MPKKFVQMLVFNLTLTEVVLSGNVLWPTDGSWLNLIKILEELIQRNHNVTVLASSATLFINSPDSPV
 NFEVIVPSYKKSNIIDSLIEHMIMLWIDHRPTPLTIWAFYKELGKLLDTFFQINIQLCDGVLKNPKLMARL
 QKGGFDVLVADPVTICGDLVALKLGIPFMYTLRFSPASTVERHCGKIPAPVSYVPAALSELTDQMTFGER
 IKNTISYSLQDYIFQSYWGEWNSYYSKILGRPTTLCETMGKAEIWLIRTYWDFEFPRPYLPNFEFVGGH
 CKPAKPLPKEMEEFIQSSGKNGVVVFLGSMVKNLTEEKANLIASALAQIPQKVLWRYKGGKPKATLGNNT
 QLFDWIPQNDLLGHPKTKAFITHGGTNGIYEAIYHGVPMVGVPMFADQPDNIAHMKAKGAAVEVNLNMT
 SVDLLSALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAHADLTFWQYHSL
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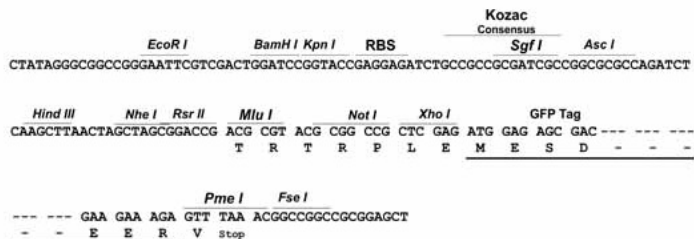
TRTRPLE - GFP Tag - V

Restriction Sites:

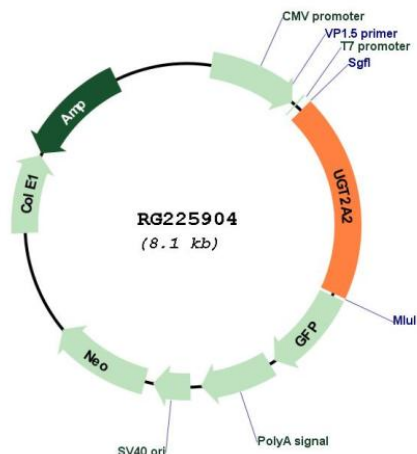
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001105677
ORF Size:	1584 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_001105677.1 , NP_001099147.1
RefSeq Size:	1587 bp
RefSeq ORF:	1611 bp
Locus ID:	574537
UniProt ID:	Q9Y4X1
Cytogenetics:	4q13.3
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. Active on odorants and seems to be involved in olfaction; it could help clear lipophilic odorant molecules from the sensory epithelium.[UniProtKB/Swiss-Prot Function]