

Product datasheet for **RG215344**

UGT2B15 (NM_001076) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2B15 (NM_001076) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT2B15
Synonyms:	HLUG4; UDPGT 2B8; UDPGT2B15; UDPGTH3; UGT2B8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215344 representing NM_001076
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCTGAAATGGACGTCAGTCTTTCTGCTGATACAGCTCAGTTGTTACTTTAGCTCTGGAAGCTGTG
 GAAAGGTGCTAGTGTGGCCACAGAATACAGCCATTGGATAAATATGAAGACAATCCTGGAAGAGCTTGT
 TCAGAGGGGTCATGAGGTGACTGTGTTGACATCTTCGGCTTCTACTCTTGTCAATGCCAGTAAATCATCT
 GCTATTAATAGAAAGTTTATCCTACATCTTAACTAAAAATTATTTGGAAGATTCTCTTCTGAAAATTC
 TCGATAGATGGATATATGGTGTTCAAAAAATACATTTTGGTCATATTTTACAAATACAAGAATTGTG
 TTGGGAATATTATGACTACAGTAACAAGCTCTGTAAGATGCAGTTTGAATAAGAACTTATGATGAAA
 CACAAGAGTCAAAGTTTGTGTCATTCTGGCAGATGCCCTTAATCCCTGTGGTGAAGTACTGGCTGAAC
 TATTTAACATACCCTTTCTGTACAGTCTTCGATTCTCTGTTGGCTACACATTTGAGAAGAATGGTGGAGG
 ATTTCTGTTCCCTCCTTCTATGTACCTGTTGTTATGTCAGAATTAAGTATCAAATGATTTTCATGGAG
 AGGATAAAAAATATGATACATATGCTTTATTTGACTTTTGGTTTCAAATTTATGATCTGAAGAAGTGGG
 ACCAGTTTATAGTGAAGTTCTAGGAAGACCCACTACATTATTTGAGACAATGGGAAAAGCTGAAATGTG
 GCTCATTGCAACCTATTGGGATTTTGAATTTCTCGCCATTCTTACCAATGTTGATTTTGTGGAGGA
 CTTCACTGTAAACCAGCCAAACCCTGCCTAAGGAAATGGAAGAGTTTGTGCAGAGCTCTGGAGAAAATG
 GTATTGTGGTGTCTCTGTTGGTGCATGATCAGTAACATGTGAGAAGAAAGTCCAACATGATTGCATC
 AGCCCTTGCCAGATCCACAAAAGGTTCTATGGAGATTTGATGGCAAGAAGCCAATACTTTAGGTTCC
 AACTCTGACTGTACAAGTGGTTACCCAGAATGACCTTCTTGGTCATCCCAAAACCAAGCTTTTATAA
 CTAATGGTGAACCAATGGCATCTATGAGGCGATCTACCATGGGATCCCTATGGTGGGATCCCTTGTG
 TCGCGATCAACATGATAACATTGCTCACATGAAAGCCAAGGGAGCAGCCCTCAGTGTGGACATCAGGACC
 ATGTCAAGTAGAGATTTGCTCAATGCATTGAAAGTCAAGTCAATTAATGACCTGTCTATAAAGAGAATGCA
 TGAAATATCAAGAATTCATCATGACCAACCAATGAAGCCCTGGATCGAGCAGTCTTCTGGATTGAGTT
 TGTGATGCGCCACAAAGGAGCCAAGCACCTTCGAGTCGCAGCTCACACCTCACCTGGATCCAGTACCAC
 TCTTTGGATGTGATAGCATTCTGCTGGCTGCGTGGCAACTGTGATTTATCATCACAAAATTTTGC
 TGTTTTGTTCCGAAAGCTTGCCAAAAAGGAAAGAAGAAGAAAGAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215344 representing NM_001076
 Red=Cloning site Green=Tags(s)

MSLKWTSVFLLIQLSCYFSSGSCGKVLVWPTEYSHWINMKTILEELVQRGHEVTVLTSSASTLVNASKSS
 AIKLEVYPTSLTKNYLEDLLKILDRWIYGVSKNTFWSYFSQLQELCWEYYDYSNKLCKDAVLNKKLMMK
 LQESKFDVILADALNPCGELLAELEFNIPFLYSLRFVGYTFEKNGGFLFPPSYVPPVMSELSDQIMFME
 RIKNMIHMLYFDWFQIYDLKKWDQFYSEVLGRPTTLFETMGKAEMWLIRTYWDFEFPRPFLPNVDFVGG
 LHCKPAKPLPKEMEEFVQSSGENGIVVFLGSMISNMSEESANMIASALAQIPQKVLWRFDGKPKNTLGS
 NTRLKWLQNDLLGHPKTKAFITHGGTNGIYEAIYHGIPMVGIPLFADQHDNIAHMKAKGAALSVDIRT
 MSSRDLLNALKSVINDPVYKENVMLKSRIHHDQPMKPLDRAVFWIEFVMRHKGAKHLRVAHNLTWIQYH
 SLDVIAFLLLACVATVIFIIITKFLCFRKLAKKGKKKKRD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001076
ORF Size:	1590 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001076.4
RefSeq Size:	2144 bp
RefSeq ORF:	1593 bp
Locus ID:	7366
UniProt ID:	P54855
Cytogenetics:	4q13.2
Domains:	UDPGT
Protein Families:	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

Gene Summary:

This gene encodes a glycosyltransferase that is involved in the metabolism and elimination of toxic compounds, both endogenous and of xenobiotic origin. This gene plays a role in the regulation of estrogens and androgens. This locus is present in a cluster of similar genes and pseudogenes on chromosome 4. [provided by RefSeq, Aug 2016]