

Product datasheet for **MG208552**

Ugt2a3 (NM_028094) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugt2a3 (NM_028094) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ugt2a3
Synonyms:	2010321J07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208552 representing NM_028094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTCTGAAAAATGTGTTGCGGCATTTTTCTGCTGCAGCTTGTCTGGGCCGGCTGTGGATTCTGCA
 GCAAGGTCTCGTGTGGCCCTGTGATATGAGCCACTGGCTGAATCTAAAGACTATTCTTGAGGAGCTTGG
 AGCAAGAGGGCAGAGGTAACAGTCCTGAAATACCCAGTATCATCATAGATCAGAGTAAACGATTCCCA
 CTGCACCTTGAGAATATTCCTTTGCTGTATGAAATCGAGACAGCTGAGAAATCGTTTAAATGAGATTGCAA
 ATCTAGCTGTGAATGTCATTCCAAACCTGTCACTGTGGGAAGCAGCAAAAAACATTACAAGACTTCTTTCT
 TCAAGTAACTGGAGATTTTAAAAGTATTTGTAGGAGTGTATTGTACAACCAGAAATTCATGGACAAGCTA
 CGGGATGCACAATATGATGTAGTGGTTATAGACCCTGTCGTTCCCTGTGGAGAGTTGGTGGCAGAAGTGC
 TTCAGATCCCTTTCGTATACACACTGAGGTTTCAAGTGGGCTACTACATGGAGAAACACTGTGGCCAGCT
 TCCAATCCACTCTCGTATGTACCGGTTGTGATGAGTGTGAGCTGACAGACAATATGACCTTACAGAGAGG
 GTGAAAAATATGATGTTTTCACTGTTGTTTGTAGTACTGGCTCCAGCAATATGACTTTGCATTCTGGGATC
 AGTTTTACAGTGAACCCCTAGGAAGGCCACAACGTTCTGTAAGACTGTGGGAAAAGCTGACATTTGGCT
 AATCCGAACATATTGGGATGTTGAGTTTCTCGTCCATATTTACCAAATTTGAGTTTGTGGGAGGACTG
 CACTGCAAACCTGCCAAGCCTTACCTAAGGAAATGGAAGAATTTGTTTCCAGAGCTCTGGAGAACATGGTG
 TAGTAGTATTTTCACTGGGGTCAATGGTCAAAAACCTGACAGAAGAGAAAGCCAACTCATTGCCTCTGT
 CCTTGGCCAGATCCCCAGAAGGTTTTGTGGAGATACTCAGGCAAGAAGCCAGCCACATTAGGATCCAAT
 ACTCGGCTTTTTAATTGGATTCCCAGAATGATCTTCTTGGACATCCTAAAACCAAAGCTTTCATCACAC
 ATGGTGGAAACAAACGGGATTTATGAAGCCATTTACCATGGGGTCCCTATGGTGGGCGTTCCCATGTTAGG
 GGATCAGCCTCACAAACATCGCTCACATGGAGGCCAAGGGAGCAGCCCTGAAAGTCAGCATCAGTACAATG
 ACGAGCACAGATTTACTCAGTGTGTGAGGCGAGTCATTAATGAGCCTTCTTATAAAGAGAAATGCCATGC
 GGTTATCAAGAATCCACCATGATCAGCCAGTGAAGCCCTGGACCGAGCAGTCTTCTGGATTGAGTTTGT
 CATGCGTCACAAAGGAGCCAAGCATCTTCGTGTGGCAGCCATGACCTCAGCTGGTTTTCAGTACCACTCC
 CTAGATGTGATTGGTTCTATTGTTGTGTGTCGTTACTCTGACATTCATCATCACTAAATTTTGTGTTGT
 TTGTGTGTCAAAACTTTATATGAAAGAAAGTAAGAAAATGGGGAACAGAAAGAAAAAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208552 representing NM_028094
 Red=Cloning site Green=Tags(s)

MVSEKCVAAFFLLQLCWAGCGFCSKVLVWPCDMSHWLNLKTIILEELGARGHEVTVLKYPSSIIDQSKRIP
 LHFENIPLLYEIEIETAENRLEIANLAVNVIPNLSLWEAAKTLQDFFLQVTGDFESICRSVLYNQKFMKDL
 RDAQYDVVVIDPVVPCGELVAEVLQIPFYTLRFSGYMEKHCGQLPIPLSYVPVVMSELTDNMTFTER
 YKNMMFSLLEFYWLQQYDFAFWDQFYSETLGRPTTFCKTVGKADIWLIRTYWDVEFRPYLPNFEFVGG
 HCKPAKPLPKEMEEFVQSSGEHGVVVFSLGSMVKNLTEEKANLIASVLAQIPQKVLWRYSGKKPATLGSN
 TRLFNWIPQNDLLGHPKTKAFITHGGTNGIYEAIYHGVPVMPVMDQPHNIAHMEAKGAALKVSI
 TSTDLLSAVRAVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHDL
 SWFQYHSLDVIGFLLLCVVTLTFIITKFLFVCQKLYMKESKMKMGNRKKKN

TRTRPLE - GFP Tag - V

Restriction Sites:

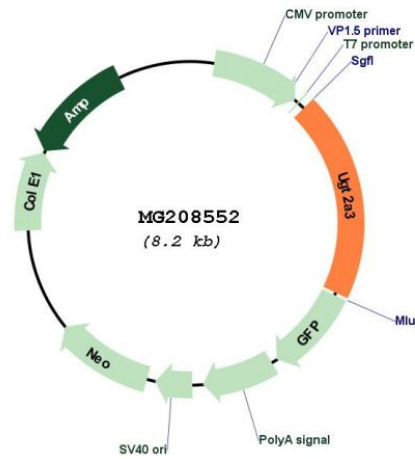
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_028094
ORF Size:	1602 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_028094.3 , NP_082370.2
RefSeq Size:	2117 bp
RefSeq ORF:	1605 bp
Locus ID:	72094
UniProt ID:	Q8BWQ1
Cytogenetics:	5 E1
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]