

Product datasheet for **MG208379**

Ugt3a1 (BC025940) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugt3a1 (BC025940) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ugt3a1
Synonyms:	A1746432
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208379 representing BC025940
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCACATCGGAGTTGGCTTCTTGTGAGCTTCTTTCTCCTTGAGGTTCTTCTTGGAGGCTGCAA
 AAATCCTGACTATATCTACACTGAGTGCCAGTCATTATATACTGATGAACCGTGTGTCGCAAATCTGCA
 AGTGGTGGCCACGATGTAATCAAACCTCTTTATGAAGGTGGTATATCCAGATTTTAGAAAGGAAAAAC
 TCATCATACCAGTTATTAATTGGCGTCTACCTGAAGATCAGCAAAAGACATTTGAAAATAGATGGCATC
 GACTTATAGACGAATAGCTTATGGGAGGTCCAAATATCACACCCTACTAAAGATTCATCAATACTTTGC
 GGACTTATGCAGTCACTTATTAAGCAGAAAGGACATCATGGAGTTATTACAAAAGGAGAAGTTTACCTA
 GTACTTCTTGATTCAATGGATCTCTGTTCTTCTGATTGTTGAAAAGCTTGGGAAACGATTGTGTCTCT
 TTCTTCCCTTCAATTTAGCTATATGGACTTTGGGTTACCAAACGCCCTTGTCTATGCTCCAGTGT
 TGTTCTGGTCTAACTGACCAAATGGACTTTTGGGCGGAGTGAAGAACATTCTGATGTTCTTTCATTTT
 ACCAAGAAGCGAAGGGACATCTTTCTCAATATGGCAATACTGTCCAGGAGCATTTCGCGAAGGCTCTC
 AGCCAGTGTGTCTGACCTTCTACTGAAAGCTGAGCTGTGGTTTGTCAACTCTGACTTTGCCTTGGATT
 TGCTCGTCCCCTGTTTCCCAACACAGTCTATGTGGGAGGTTTACTGGACAAACCTGTTACGCCAATACCC
 CAAGACTTGGAGGATTTTATCTCTCAGTTTGGAGACTCAGGTTTGTCTTGTGGCCCTGGACTCTGTAG
 TGAGCATGATTCAAGTCCAAGGAAATTAAGGAGATGAACAGTGCCTTTGCTCACCTCCCTCAAGGGGT
 GCTATGGACATGTAAGAGTTCATTGGCCAAAGATGTCAGTTTGGCCCAAATGTCAAATCATGGAT
 TGGTTCACAGATTGACCTTCTAGCTCACCTAGCATTCTGTTTGTACCCATGGGGGATGAACA
 GTGTAATGGAGGCTGCCATCATGGAGTACCAATGGTAGGATCCATTTTGGAGACCAACCTGAAAA
 CATGGTCCGAGTAGAAGCAAAGAACCTTGGTGTCTTCTATTTCAGCTACAGACACTCAAGGCAGAGTCATT
 TTGCTCACCATGAAAGAAGTCATAGAAGACCAGAGGTACAAGACTGCAGCAATGGCTCCAAGGTTATCA
 GAACTCCACCCACTGACCCCTGCCAGAGGCTTGTGGGCTGGATAGATCACATCTTGCAGACAGGGGG
 TGCAGCACATCTCAAGCCATATGCTTCCAGCAGCCATGGCATGAGCAGTACATGCTGGATGTCTTCTCT
 TTTCTGTTAGGACTCACACTGGTACCTTGTGGCTTAGTGTAAAGGTTCTTGTGCTGTAACCAGGTATC
 TGAGTATATCAAGGAAGTCAAGCAGGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208379 representing BC025940
 Red=Cloning site Green=Tags(s)

MAAHRSWLLVSFFLLEVLLEAAKILTISTLSASHYILMNRVSQLQGGGHDVIKLLYEGGDIPDFRKEN
 SSYQVINWRLPEDQKTFENRWHRLIDEYAYGRSKYHTLLKIHQYFADLCSHLLSRKDIMELLQKENFDL
 VLLDSMDLCSFLIVEKLGKRFVSLPFQFSYMDFGLPNAPLSYAPVYGSGLTDQMDFWGRVKNILMFFHF
 TKKRRDIFSQYGNVQEHEFAEGSQPVLSDLLLKAEWVNSDFALDFARPLFPNTVYVGGLLDKPVQPI
 QDLEDFISQFGDSGFVLVALDSVSMIQSKEIIKEMNSAF AHL PQGVLWTKSSHWPKDVSLAPNVKIMD
 WLPQIDLLAHP S I R L F V T H G M N S V M E A V H H G V P M V G I P F F G D Q P E N M V R V E A K N L G V S I Q L Q T L K A E S F
 L L T M K E V I E D Q R Y K T A A M A S K V I R N S H P L T P A Q R L V G W I D H I L Q T G G A A H L K P Y A F Q Q P W H E Q Y M L D V F L
 F L L G L T L G T L W L S V K V L V A V T R Y L S I S R K V K Q A

TRTRPLE – GFP Tag – V

Restriction Sites:

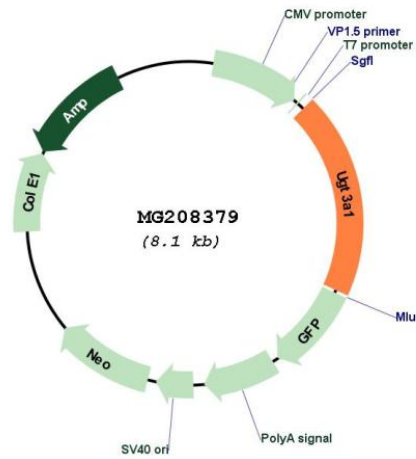
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	BC025940
ORF Size:	1571 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:	BC025940 , AAH25940
RefSeq Size:	2228 bp
RefSeq ORF:	1571 bp
Locus ID:	105887
Cytogenetics:	15 A1
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]