

Product datasheet for **RG203058**

CYP39A1 (NM_016593) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP39A1 (NM_016593) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP39A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203058 representing NM_016593
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAACAAATTTCCCAACAGTGATTATAATCCTGGGTTGCCTTGTCTGTTCTTACTCCTTCAGCCGA
 AGAATTTGCGTAGACCCCGTGCATCAAGGGCTGGATTCTTGGATTGGAGTTGGATTTGAGTTTGGGAA
 AGCCCTCTAGAATTTATAGAGAAAGCAAGAATCAAGTATGGACCAATATTTACAGTCTTTGCTATGGGA
 AACCGAATGACCTTTGTTACTGAAGAAGAAGGAATTAATGTGTTTCTAAAATCCAAAAAGTAGATTTTG
 AACTAGCAGTGCAAAATATCGTTTATCGTACAGCATCAATCCAAAGAATGTCTTTTAGCACTGCATGA
 AAAACTCTATATTATGTTGAAAGGGAAAATGGGGACTGTCAATCTCCATCAGTTTACTGGGCAACTGACT
 GAAGAATTACATGAACAACTGGAGAATTTAGGCACTCATGGGACAATGGACCTGAACAACCTAGTAAGAC
 ATCTCTTTATCCAGTCACAGTGAATATGCTCTTTAATAAAAAGTTTGTTCACAAAACAAGAAAAAAT
 CAAGGAGTCCATCAGTATTTCAAGTTTATGATGAAGATTTTGTGATGGTCCAGTTGCCAGAGTGT
 CTCTAAGAAAAGTGGTCAAAATCCAAAAAGTGGTCTGGAAGTGTGGAAAAACATTCCAGATATAA
 AAGCATGTAAATCTGCAAAAGATAATCCATGACATTATTGCAAGCTACGCTGGATATTGTAGAGACGGA
 AACAAAGTAAGGAAAAGTCAACCAATTATGGGCTTCTACTGCTTTGGGCTTCTCTGCTAATGCTGTTCT
 GTTGCAATTTGGACACTGCACACGTCCTTTCTCATCCTGATATCCACAAGGCCATTATGGAAGGCATAT
 CTTCTGTGTTTGGCAAAGCAGGCAAGATAAGATTAAGTGTCTGAGGATGACCTGGAGAATCTCCTTCT
 AATTAAGTGGTGTGTTTGGAAACCATTCGTTTAAAAGCTCCTGGTGTCTACTAGAAAAGTGGTGAAG
 CCTGTGGAAATTTGAATTACATCATTCTTCTGGTACTGTTGATGTTGTCTCCATTTTGGCTGCATA
 GAAATCCAAAGTATTTCTGAGCTGAATTGTTCAAACCTGAAGTTGGAAAAAGCAAAATTTAGAGAA
 GCACTCTTTCTGGACTGCTTCATGGCATTGGAAAGCGGAAGTCCAGTGTCTGCAAGGTGGTTTGTCT
 CTGTTAGAGGTTAGATGTGATTATTTAATACTTTATAAATATGACTGTAGTCTTCTGGACCCATTAC
 CCAAACAGAGTTATCTCCATTTGGTGGGTGCCCCAGCCGGAAGGGCAATGCCGAATTGAATATAAACA
 AAGAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203058 representing NM_016593
 Red=Cloning site Green=Tags(s)

MELISPTVIIILGCLALFLLLQPKNLRPPCIKWIPWIGVGFEGKAPLEFIEKARIKYGPIFTVFAMG
 NRMTFVTEEEGINVFLKSKKVFELAVQNIYVRTASIPKNVFLALHEKLYIMLKGMGTVNLHQFTGQLT
 EELHEQLENLGHGTMDLNNLVRHLLYPVTVNMLFNKSLFSTNKKKIKEFHQYFQYVDEDFEYGSQLEPC
 LLRNWWSKSKWFLELFEKNIPDIKACKSADNSMTLLQATLDIVETETSKENSPNYGLLLLWASLSNAVP
 VAFWTLAHLVSHPDIIHKAIMEGISSVFGKAGKDKIKVSEDDLENLLL IKWCVLETIRLKAPGVITRKVVK
 PVEILNYIIPSGDLLMLSPFWLHRNPKYFPEPELFPKPERWKKANLEKHSFLDCFMAFGSGKFQCPARWFA
 LLEVQMCIIILILYKYDCSLLDPLPKQSYLHLVGVPPQEPGQCRIEYKQRI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016593

ORF Size: 1407 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_016593.3](#), [NP_057677.2](#)

RefSeq Size: 2288 bp

RefSeq ORF: 1410 bp

Locus ID: 51302

UniProt ID: [Q9NYL5](#)

Cytogenetics: 6p12.3

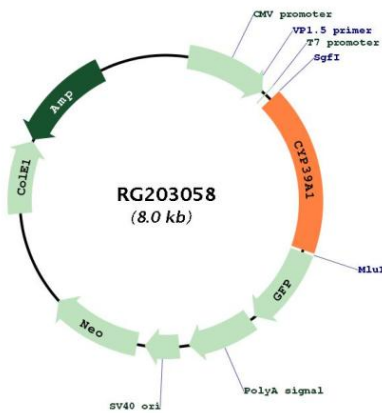
Domains: p450

Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Primary bile acid biosynthesis

Gene Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum protein is involved in the conversion of cholesterol to bile acids. Its substrates include the oxysterols 25-hydroxycholesterol, 27-hydroxycholesterol and 24-hydroxycholesterol. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG203058