

## Product datasheet for **RC238299**

### **CYP39A1 (NM\_001278738) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CYP39A1 (NM\_001278738) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CYP39A1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC238299 representing NM\_001278738  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGTAATTTCCCAACAGTGATTATAATCCTGGGTTGCCTTGCTCTGTTCTTACTCCTTCAGCGGA  
AGAATTTGCGTAGACCCCGTGCATCAAGGGCTGGATTCCTTGGATTGGAGTTGGATTTGAGTTGGGAA  
AGCCCTCTAGAATTTATAGAGAAAGCAAGAATCAAGTATGGACCAATTTTACAGTCTTTGCTATGGGA  
AACCGAATGACCTTTGTTACTGAAGAAGAAGGAATTAATGTGTTTCTAAAATCCAAAAAAGTAGATTTTG  
AACTAGCAGTGCAAAATATCGTTTATCGTACAGGAAAATGGGGACTGTCAATCTCCATCAGTTTACTGG  
GCAACTGACTGAAGAATTACATGAACAAGTGGAGAATTTAGGCACTCATGGGACAATGGACCTGAACAAC  
TTAGTAAGACATCTCCTTATCCAGTCACAGTGAATATGCTCTTAAATAAAAGTTTGTTCACAAAACA  
AGAAAAAATCAAGGAGTCCATCAGTATTTTCAAGTTTATGATGAAGATTTGAGTATGGGTCCCAGTT  
GCCAGAGTGTCTTCTAAGAACTGGTCAAAATCCAAAAAGTGGTTCCTGGAACTGTTGAGAAAAACATT  
CCAGATATAAAAGCATGTAATCTGCAAAAGATAATCCATGACATTATTGCAAGCTACGCTGGATATTG  
TAGAGACGGAAACAAGTAAGGAAAACACCCAATTATGGGCTCTTACTGCTTTGGGCTTCTCTGTCTAA  
TGCTGTTCTGTTGCATTTTGGACACTGCATAGTCTTTCTCATCCTGATATCCACAAGGCCATTATG  
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ATCTCCTTCTAATTAATGGTGTGTTTTGGAAACCATTGTTTAAAGCTCCTGGTGTCTTACTAGAAA  
AGTGGTGAAGCCTGTGGAAATTTGAATTACATCATTCTTCTGGTGACTTGTGATGTTGTCTCCATTT  
TGGCTGCATAGAAATCCAAAGTATTTTCTGAGCCTGAATTGTTCAAACCTGAACGTTGGAAAAAGGCAA  
ATTTAGAGAAGCACTCTTCTTGGACTGCTTCATGGCATTGGAAGCGGGAAGTCCAGTGTCTGCAAG  
GTGGTTTGCTCTGTTAGAGGTTCCAGATGTGATATTTTAACTTTATAAATATGACTGTAGTCTTCTG  
GACCCATTACCAACAGAGTTATCTCCATTTGGTGGGTGTCCTCCAGCCGGAAGGCAATGCCGAATTG  
AATATAACAAAGAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238299 representing NM\_001278738  
Red=Cloning site Green=Tags(s)

MELISPTVIIILGCLALFLLLQRKNLRRPPCIKWIPWIGVGFEGKAPLEFIEKARIKYGPIFTVFAMG  
 NRMTFVTEEEGINVFLKSKKDFELAVQNIYYRTGKMGTVNLHQFTGQLTEELHEQLENLGTHTMDLNN  
 LVRHLLYPVTVNMLFNKSLFSTNKKKIKEFHQYFYVDEDFEYGSQLEPCLLRNWSKSKWFLLEFEKNI  
 PDIKACKSAKDNSMTLLQATLDIVETETSKENSPNYGLLLLWASLSNAVPVAFWTLAYVLSHPDIHKAIM  
 EGISSVFGKAGKDKIKVSEDDLLENLLL IKWCVLETIRLKAPGVITRKVVKPV EILNYIIPSGDLLMLSPF  
 WLHRNPKYFPEPEL FKPERWKKANLEKHSFLDCFMAFGSGKFQCPARWFALLEVQMCIIILYKYDCSL  
 DPLPKQSYLHLVGPVQPEGQCRIEYKQRI

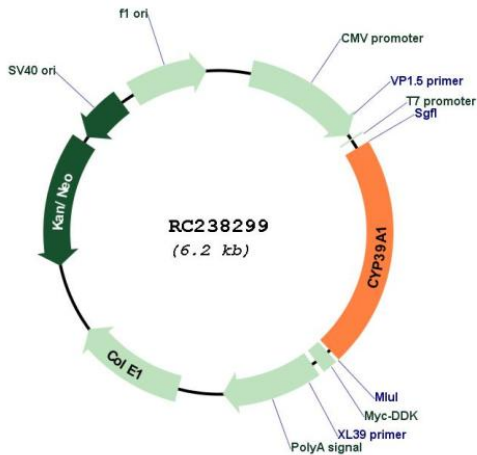
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_001278738
<b>ORF Size:</b>	1347 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278738.1</a> , <a href="#">NP_001265667.1</a>
<b>RefSeq Size:</b>	2384 bp
<b>RefSeq ORF:</b>	1350 bp
<b>Locus ID:</b>	51302
<b>UniProt ID:</b>	<a href="#">Q9NYL5</a>
<b>Cytogenetics:</b>	6p12.3
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane
<b>Protein Pathways:</b>	Primary bile acid biosynthesis
<b>MW:</b>	52.3 kDa
<b>Gene Summary:</b>	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]