

Product datasheet for **RC237273**

CYP39A1 (NM_001278739) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP39A1 (NM_001278739) 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:	>RC237273 representing NM_001278739 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTTTAATAAAAAGTTTGTTCACAAACAAGAAAAAATCAAGGAGTTCATCAGTATTTTCAAG
TTTATGATGAAGATTTTGAGTATGGGTCCAGTTGCCAGAGTGTCTTCTAAGAACTGGTCAAAATCCAA
AAAGTGGTTCCTGGAAGTCTTGGAGAAAACATTCCAGATATAAAGCATGTAATCTGCAAAGATAAT
TCCATGACATTATTGCAAGCTACGCTGGATATTGTAGAGACGAAACAAGTAAGGAAAACCTACCCAATT
ATGGGCTCTTACTGCTTTGGGCTTCTCTGTCTAATGCTGTTCTGTTGCATTTTGGACACTTGCATACGT
CCTTTCTCATCTGATATCCACAAGGCCATTATGGAAGGCATATCTTCTGTGTTGGCAAAGCAGGCAAA
GATAAGATTAAGTGTCTGAGGATGACCTGGAGAATCTCCTTCTAATTAATGGTGTGTTTGGAAACCA
TTCGTTTAAAAGCTCCTGGTGTCTACTAGAAAAGTGGTGAAGCCTGTGGAAATTTGAATTACATCAT
TCCTTCTGGTACTTGTGATGTTGTCTCCATTTGGCTGCATAGAAATCCAAAGTATTTTCTGAGCCT
GAATTGTTCAAACCTGAACGTTGGAAAAAGCAAATTTAGAGAAGCACTTTTCTGGACTGCTTCATGG
CATTTGGAAGCGGAAGTCCAGTGTCTGCAAGGTGGTTTGCTCTGTTAGAGGTTCCAGATGTGATTAT
TTTAATACTTTATAAATATGACTGTAGTCTTCTGGACCCATTACCAAACAGAGTTATCTCCATTTGGTG
GGTGTCCCCAGCCGGAAGGCAATGCCGAATTGAATATAAACAAGAATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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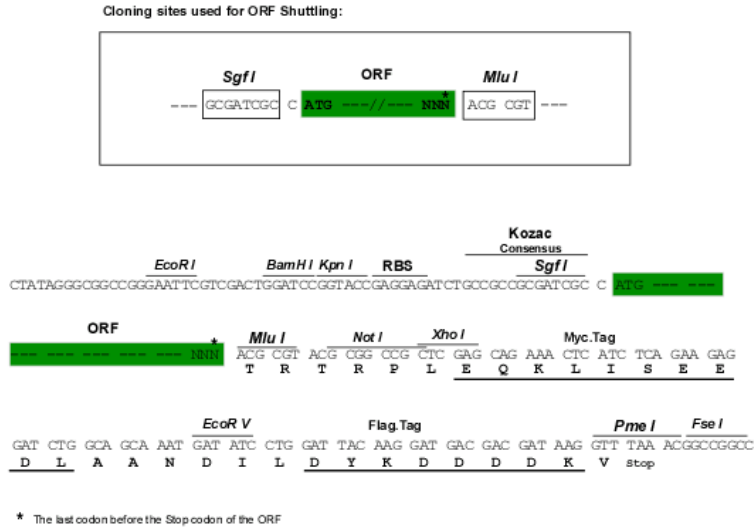
Protein Sequence: >RC237273 representing NM_001278739
 Red=Cloning site Green=Tags(s)

MLFNKSLFSTNKKKIKEFHQYFQYVDEDFEYGSQ LPECLLRNWSKSKWFLLEFEKNIPDIKACKSAKDN
 SMTLLQATLDIVETETSKENSPNYGLLLLWASLSNAVVPVAFWTLAYVLSHPDIHKAIMEGISSVFGKAGK
 DKIKVSEDDLLENLLLIKWCVLETIRLKAPGVITRKVVKPVEILNYIIPSGDLLM LSPFWLHRNPKYFPEP
 ELFKPERWKKANLEKHSFLDCFMAFGSGKFQCPARWFALLEVQMCIIILILYKYDCSLLDPLPKQSYLHLV
 GVPQPEGQCRIEYKQRI

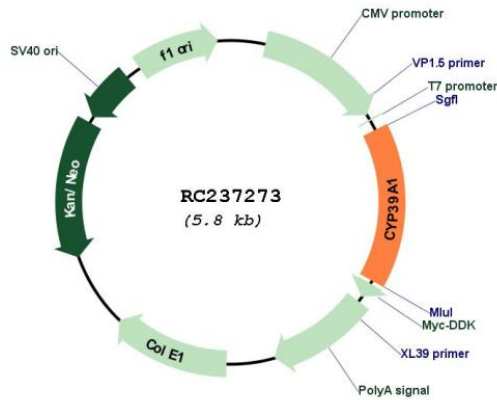
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278739

ORF Size:	891 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_001278739.1 , NP_001265668.1
RefSeq Size:	2269 bp
RefSeq ORF:	894 bp
Locus ID:	51302
UniProt ID:	Q9NYL5
Cytogenetics:	6p12.3
Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Primary bile acid biosynthesis
MW:	34.9 kDa
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]