

Product datasheet for SC335167

CYP39A1 (NM_001278739) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP39A1 (NM_001278739) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP39A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335167 representing NM_001278739. Blue=Insert sequence Red=Cloning site Green=Tag(s)

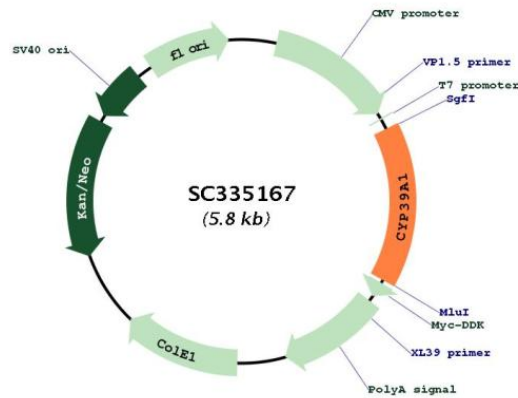
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GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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GTTTATGATGAAGATTTGAGTATGGGTCCCAGTTGCCAGAGTGTCTTCTAAGAACTGGTCAAAATCC
AAAAAGTGGTTCCTGGAAGTGTGAGAAAAACATTCAGATATAAAGCATGTAATCTGCAAAAGAT
AATTCATGACATTATTGCAAGCTACGCTGGATATTGTAGAGACGGAAACAAGTAAGGAAAACACCC
AATTATGGGCTCTTACTGCTTTGGGCTTCTGTCTAATGCTGTTCTCTGTCATTTGGACACTTGCA
TACGCTCTTTCATCCTGATATCCACAAGGCCATTATGGAAGGCATATCTTCTGTGTTGGCAAAGCA
GGCAAAGATAAGATTAAGTGTCTGAGGATGACCTGGAGAATCTCCTTCTAATTAATGGTGTGTTTTG
GAAACCATTCTTTAAAAGCTCCTGGTGTCTTACTAGAAAAGTGGTGAAGCCTGTGAAAATTTGAAT
TACATCATTCTTCTGGTACTTGTGATGTTGTCTCCATTTGGCTGCATAGAAATCCAAAGTATTTT
CCTGAGCCTGAATTGTTCAAACCTGAACGTTGGAAAAAGGCAAATTTAGAGAAGCACTCTTCTTGGAC
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ATGTGTATTATTTAATACTTTATAAATATGACTGTAGTCTTCTGGACCCATTACCCAAACAGAGTTAT
CTCCATTTGGTGGGTGTCCCCAGCCGGAAGGCAATGCCGAATTGAATATAAACAAGAATA TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001278739

Insert Size: 894 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001278739.1](#)

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: 34.5 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]

Transcript Variant: This variant (3) differs in its 5' UTR and uses a downstream start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.