

Product datasheet for **RC207078**

CYP51A1 (NM_000786) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP51A1 (NM_000786) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP51A1
Synonyms:	CP51; CYP51; CYPL1; LDM; P450-14DM; P450L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207078 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGGCTGGGATGCTGCTGCTGGGCTTGCTGCAGCGGGTGGTTCGGTCTGGCCAGGCGA
 TGGAGAAGGTGACAGGCGCAACCTCTTGCCATGCTGCTGATCGCCTGCGCCTTACCCTCAGCCTGGT
 CTACCTGATCCGTCTGGCCGCGGCCACCTGGTCCAGCTGCCCGAGGGGTGAAAAGTCCATCATT
 TTCTCCCAATCCATTCTTGGGCATGCCATAGCATTGGGAAAAGTCCAATTGAATTTCTAGAAAATG
 CATATGAGAAGTATGGACCTGTATTTAGTTTTACCATGGTAGGCAAGACATTTACTTACCTTCTGGGGAG
 TGATGCTGCTGACTGCTTTTTAATAGTAAAAATGAAGACCTGAATGCAGAAGATGTCTACAGTCGCCTG
 ACAACACCTGTGTTGGGAAGGGAGTTGCATACGATGTGCCTAATCCAGTTTTCTGGAGCAGAAGAAAA
 TGTTAAAAAGTGGCCTTAACATAGCCACTTTAAACAGCATGTTTCTATAATTGAAAAGAAACAAAGGA
 ATACTTTGAGAGTTGGGGAGAAAGTGGAGAAAAAATGTGTTTGAAGCTTTTCTGAGCTCATAATTTTA
 ACAGCTAGCCATTGTTTGCATGGAAGGAAATCAGAAAGTCAACTCAATGAAAAGGTAGCAGACTGTATG
 CAGATTTGGATGGAGTTTCAGCCATGCAGCCTGGCTCTTACCAGTTGGCTGCCTTTGCCTAGTTTCAG
 ACGCAGGGACAGAGCTCATCGGAAATCAAGGATATTTTCTATAAGGCAATCCAGAAACGCAGACAGTCT
 CAAGAAAAAATTGATGACATTCTCAAACCTTACTAGATGCTACATAACAAGGATGGGCGTCTTTGACTG
 ATGATGAAGTAGCAGGGATGCTTATTGGATTACTCTTGGCAGGGCAGCATACATCCTCAACTACTAGTGC
 TTGGATGGGCTTCTTTTGGCCAGAGACAAAACACTTCAAAAAAATGTTATTTAGAACAGAAAACAGTC
 TGTGGAGAGAATCTGCCTCCTTTAACTTATGACCAGCTCAAGGATCTAAATTTACTTGATCGCTGTATAA
 AAGAAACATTAAGACTTAGACCTCTGTAAATGATCATGATGAGAATGGCCAGAACTCCTCAGACTGTGGC
 AGGGTATACCATTCTCCAGGACATCAGGTGTGTGTTTCTCCACTGTCAATCAAAGACTTAAAGACTCA
 TGGGTAGAACGCCTGGACTTTAATCCTGATCGCTACTTACAGGATAACCCAGCATCAGGGGAAAAGTTTG
 CCTATGTGCCATTTGGAGCTGGGCGTCATCGTTGTATTGGGAAAATTTGCCTATGTTCAAATTAAGAC
 AATTTGGTCCACTATGCTTCGTTTATATGAATTTGATCTCATTGATGGATACTTTCCCACTGTGAATTAT
 ACAACTATGATTCACACCCTGAAAACCCAGTTATCCGTTACAAACGAAGATCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207078 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAGMLLLGLLQAGGSVLQAMEKVTGGNLLSMLLIACFTLSLVYLIRLAAGHLVQLPAGVKSPPIYI
 FSPPIFLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFYLLGSDAAALLFNSKNEDLNAEDVYSRL
 TTPVFGKVAYDVPNPVLEQKKMLKSLNIAHFQHVSIIEKETKEYFESWGESGEKNVFEALSELIIIL
 TASHCLHGKEIRSQLEKVAQLYADLDGGFSHAAWLLPGWLPSPFRRRDRAHREIKDIFYKAIQKRRQS
 QEKIDDLQTLQDQYKDRPLTDDEVAGMLIGLLLAGQHTSSTSAWMGFFLARDKTLQKKCYLEQKTV
 CGENLPPLTYDQLKDLNLLDRCIKETLRLRPPVMIMMRMARTPQTVAGYTIIPPGHQVCVSPVNRQLKDS
 WVERLDFNPDRYLQDNPASGEKFAYVFPFGAGRHRICIGENFAYVQIKTIWSTMLRLYEFDLIDGYFPTVNY
 TTMIHTPENPVIRYKRRSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6334_a09.zip

Restriction Sites:

Sgfl-Mlul

Domains: p450

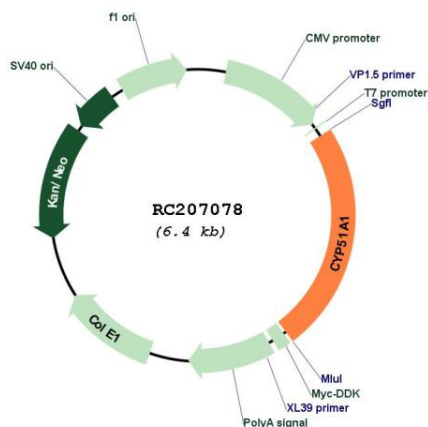
Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Metabolic pathways, Steroid biosynthesis

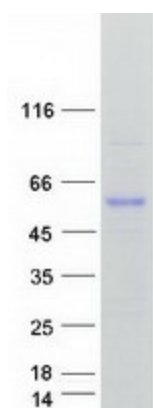
MW: 57.3 kDa

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 participates in the synthesis of cholesterol by catalyzing the removal of the 14alpha-methyl group from lanosterol. Homologous genes are found in all three eukaryotic phyla, fungi, plants, and animals, suggesting that this is one of the oldest cytochrome P450 genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RC207078



Coomassie blue staining of purified CYP51A1 protein (Cat# [TP307078]). The protein was produced from HEK293T cells transfected with CYP51A1 cDNA clone (Cat# RC207078) using MegaTran 2.0 (Cat# [TT210002]).