

Product datasheet for **RC212353**

CYP3A7 (NM_000765) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP3A7 (NM_000765) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP3A7
Synonyms:	CP37; CYP11A7; P-450(HFL33); P-450111A7; P450-HFLA; P450HLp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212353 representing NM_000765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTCATCCCAAACCTTGGCCGTGGAACCTGGCTTCTCCTGGCTGTCAGCCTGATACTCCTCTATC
 TATATGGAACCCGTACACATGGACTTTTTAAGAAGCTTGAATTCAGGGCCACACCTCTGCCTTTTTT
 GGGAAATGCTTTGTCTTCCGTAAAGGCTATTGGACGTTTGACATGGAATGTTATAAAAAAGTATAGAAAA
 GTCTGGGGTATTTATGACTGTCAACAGCCTATGCTGGCTATCACAGATCCCGACATGATCAAAACAGTGC
 TAGTGAAGAATGTTATTCTGTCTTACAAACCGGAGGCTTTTCGGGCCAGTGGGATTTATGAAAAATGC
 CATCTCTATAGCTGAGGATGAAGAATGGAAGAGAATACGATCATTGCTGTCTCCAACATTCACCAGCGGA
 AACTCAAGGAGATGGTCCCTATCATTGCCAGTATGGAGATGTGTTGGTGAAGAACTGAGGCGGGAAG
 CAGAGACAGGCAAGCCTGTACCTTGAACACGCTTTGGGGCCTACAGCATGGATGTGATCACTAGCAC
 ATCATTTGGAGTGAGCATCGACTCTCTCAACAATCCACAAGACCCTTTGTGAAAAACCAAGAAGCTT
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 AAGCATAAATCACTGTGTTTCCAAGAAAAGTTATAAGTTTTCTAACAAAATCTGTAACACAGATAAA
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 TTGCTGGCTATGAAACCACGAGCAGTGTCTCTCTCATTATATGAAGTGGCCACTCACCTGATGT
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 CTAAGGCTGAGTCAAGGGATGAGACCGTAAGTGGAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212353 representing NM_000765
 Red=Cloning site Green=Tags(s)

MDLIPNLAVETWLLLAVSLILLYLYGTRTHGLFKKLGIPGPTPLPFLGNALSFRKGYWTFDMECYKKYRK
 VWGIYDCQPMLAITDPDMIKTVLVKECYSVFTNRRPFGPVGFMKNAISIAEDEEWKRIRSLLSPTFTSG
 KLKEMVPIIAQYGDVLRNLRREAETGKPVTLKHVFGAYSMDVITSTSFVGSIDSLNPNQDPFVENTKLL
 LRFNPLDPFVLSIKVFPFLTPILEALNITVPRKVISFLTKSVKQIKEGRLKETQKHRVDFLQLMIDSN
 SKDSETHKALSDELEMAQSIIFIFAGYETTSSVLSFIIYELATHPDVQKQVQKEIDTVLPNKAPPTYDTV
 LQLEYLDMVNETLRLFPVAMRLERVCKKDVEINGMFIKGVVVMIPSYVLHHPKYWREPEKFLPERFS
 KKNKDNIDPYIYTPFGSGPRNCIGMRFALVNMKLALVRVLQNF SFKPKETQIPLKLRFGGLLLEKPIV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

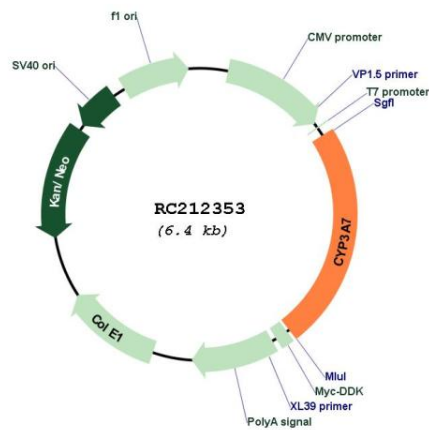
https://cdn.origene.com/chromatograms/mk8114_h10.zip

Restriction Sites:

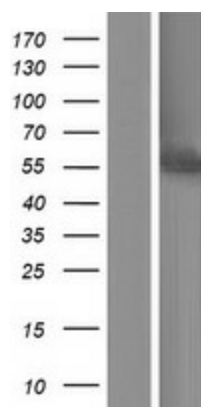
Sgfl-Mlul

RefSeq:	NM_000765.3, NP_000756.2
RefSeq Size:	2095 bp
RefSeq ORF:	1512 bp
Locus ID:	1551
UniProt ID:	P24462
Cytogenetics:	7q22.1
Domains:	p450
Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism
MW:	57.5 kDa
Gene Summary:	This gene encodes a member of the cytochrome P450 superfamily of enzymes, which participate in drug metabolism and the synthesis of cholesterol, steroids and other lipids. This enzyme hydroxylates testosterone and dehydroepiandrosterone 3-sulphate, which is involved in the formation of estriol during pregnancy. This gene is part of a cluster of related genes on chromosome 7q21.1. Naturally-occurring readthrough transcription occurs between this gene and the downstream CYP3A51P pseudogene and is represented by GeneID:100861540. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RC212353



Western blot validation of overexpression lysate (Cat# [LY424532]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212353 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).