

Product datasheet for RC237913

Cytochrome P450 3A5 (CYP3A5) (NM_001291829) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 3A5 (CYP3A5) (NM_001291829) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP3A5
Synonyms:	CP35; CYP11A5; P450PCN3; PCN3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237913 representing NM_001291829 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAAGTGCCATCTCTTTAGCTGAGGATGAAGAATGGAAGAGAATACGGTCATTGCTGTCTCCAACCT
TCACCAGCGGAAAACCAAGGAGATGTTCCCATCATTGCCAGTATGGAGATGTATTGGTGAGAAACTT
GAGGCGGGAAGCAGAGAAAAGCAAGCCTGTACCTTCAAAGACATCTTTGGGGCTACAGCATGGATGTG
ATTACTGGCACATCAATTTGGAGTGAACATCGACTCTCAACAATCCACAAGACCCCTTTGTGGAGAGCA
CTAAGAAGTTCCTAAAATTTGGTTTCTTAGATCCATTATTTCTCTCAATAATACTCTTCCATTCCTTAC
CCCAGTTTTTGAAGCATTAAATGTCTCTGTTTCCAAAAGATACCATAAATTTTTAAAGTAAATCTGTA
AACAGAAATGAAGAAAAGTCGCCTCAACGACAAAACAAAAGCACCAGACTAGATTTCCCTTCAGCTGATGATTG
ACTCCAGAAATTCGAAAGAACTGAGTCCCAAAAGCTCTGTCTGATCTGGAGCTCGCAGCCCAGTCAAT
AATCTTCATTTTTGCTGGCTATGAAACCACCAGCAGTGTCTTTCCTTCACTTTATGAACTGGCCACT
CACCTGATGTCCAGCAGAAAAGTCAAAAAGGAGATTGATGCAGTTTTGCCAATAAGGCACCACCTACCT
ATGATGCCGTGGTACAGATGGAGTACCTTGACATGGTGGTGAATGAAACACTCAGATTATCCAGTTGC
TATTAGACTTGAGAGGACTTGCAAGAAAGATGTTGAAATCAATGGGGTATTCAATCCCAAAGGGTCAATG
GTGGTATTCCAACCTTATGCTCTTACCATGACCCAAAAGTACTGGACAGAGCCTGAGGAGTTCGGCCCTG
AAAGTTTCAGTAAGAAGAAGGACAGCATAGATCCTTACATATACACCCCTTTGAACTGGACCCAGAAA
CTGCATTGGCATGAGTTTGTCTCATGAACATGAAACTTGCTCTAATCAGAGTCTTCAGAACTTCTCC
TTCAAACCTTGTAAGAAACACAGATCCCTTGAAATTAGACACGCAAGGACTTCTTCAACCAGAAAAAC
CCATTGTTCTAAAGGTGGATTCAAGAGATGGAACCCTAAGTGGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237913 representing NM_001291829
Red=Cloning site Green=Tags(s)

MKSAISLAEEDEEWKRIRSLLSPTFTSGKLEMPFIIAQYGDVLRNLRREAEKGPVTLKDI FGAYSMDV
 ITGTSFGVNI DSNLPQDPFVESTKKFLKFGFLDPLFLSIILFPFLTPVFEALNVSLFPKDTINFLSKSV
 NRMKKSRLNDKQKHRLDFLQLMIDSQNSKETESHKALSDLELAAQSIIFIFAGYETTSSVLSFTLYELAT
 HPDVQQLQKEIDAVLPNKAPPTYDAVVQMEYLDMVVNETLRLFPVAIRLERTCKKDVEINGVFIPKGS
 M VVIPTYALHHDPKYWTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRNCIGMRFALMNMKLALIRVLQNF
 S FKPKETQIPLKLDLDTQGLLQPEKPIVLKVDSRDGTLSGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

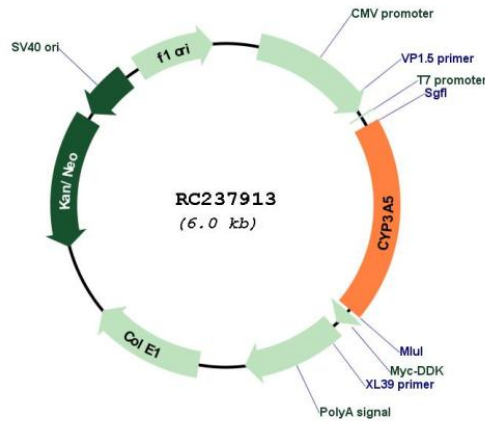
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291829

ORF Size:	1167 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_001291829.2
RefSeq Size:	2255 bp
RefSeq ORF:	1170 bp
Locus ID:	1577
Cytogenetics:	7q22.1
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:	44.8 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. The encoded protein metabolizes drugs as well as the steroid hormones testosterone and progesterone. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Two pseudogenes of this gene have been identified within this cluster on chromosome 7. Expression of this gene is widely variable among populations, and a single nucleotide polymorphism that affects transcript splicing has been associated with susceptibility to hypertension. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]