

Product datasheet for **RC207488**

CYP20A1 (NM_177538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	CYP20A1
Synonyms:	CYP-M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC207488 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTGGACTTCGCGATCTTCGCCGTTACCTTCTTGCTGGCGTTGGTGGGAGCCGTGCTCTACCTCTATC
 CGGCTTCCAGACAAGCTGCAGGAATCCAGGGATTACTCCAACGAAGAAAAAGATGGTAATCTTCCAGA
 TATTGTGAATAGTGAAGTTTGCATGAGTTCCTGGTTAATTTGCATGAGAGATATGGCCTGTGGTCTCC
 TTCTGGTTTGGCAGGCGCTCGTGGTTAGTTTGGGCACTGTTGATGTACTGAAGCAGCATATCAATCCCA
 ATAAGACATTGGACCCCTTTGAAACCATGCTGAAGTCATTATTAAGGTATCAATCTGGTGGTGGCAGTGT
 GAGTGAAAAACCATGAGGAAAAAATTGTATGAAAAATGGTGTGACTGATTCTCTGAAGAGTAACCTTGCC
 CTCCTCCTAAAGCTTTCAGAAGAATTATTAGATAAATGGCTCTCCTACCCAGAGACCCAGCAGCTGCCCC
 TCAGCCAGCATATGCTTGGTTTGTATGAAGTCTGTTACACAGATGGTAATGGGTAGTACATTTGAAGA
 TGATCAGGAAGTCATTGCTTCCAGAAGAATCATGGCAGTGGTCTGAGATTGAAAAAGGCTTTCTA
 GATGGGTCACTTGATAAAAAACATGACTCGGAAAAACAATGAAGATGCCCTCATGCAACTGGAGTCTG
 TTTTAAGGAACATCATAAAGAACGAAAAGGAAGGAACCTCAGTCAACATATTTTATTGACTCCTTAGT
 ACAAGGGAACCTTAATGACCAACAGATCCTAGAAGACAGTATGATATTTCTCTGGCCAGTTGCATAATA
 ACTGCAAAATTGTGTACCTGGGCAATCTGTTTTTAACCACTCTGAAGAAGTTCAAAAAAATTATATG
 AAGAGATAAACCAAGTTTTTGGAAATGGTCTGTTACTCCAGAGAAAATTGAGCAGCTCAGATATTGTCA
 GCATGTGCTTTGTGAACTGTTGAACTGCCAACTGACTCCAGTTTCTGCCAGTTTCAAGATATTGAA
 GGAAAAATTGACCGATTATTATTCCTAGAGAGACCTCGTCTTTATGCCCTGGTGTGGTACTTCAGG
 ATCCTAATACTTGGCCATCTCCACACAAGTTTGATCCAGATCGTTTGATGATGAATTAGTAATGAAAC
 TTTTCTCACTTGGATTCTCAGGCACACAGGAGTGTCCAGAGTTGAGGTTTGCATATATGGTGACCACA
 GTACTTCTTAGTGTATTGGTGAAGAGACTGCACCTACTTTCTGTGGAGGGACAGGTTATTGAAACAAAGT
 ATGAAGTGGTAACATCATCAAGGGAAGAAGCTTGGATCACTGTCTCAAAGAGATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207488 protein sequence
 Red=Cloning site Green=Tags(s)

MLDFAIFAVTFLALVGAVLYLPASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVS
 FWFGRRLVSLGTVDVLKQHINPNKTLDPFETMLKSLRYQSGGGSVSENHMRKKLYENGVTDSLKSNFA
 LLLKLSEELLDKWL SYPETQHVPLSQHMLGFAMKSVTQVMVGSTFEDDQEVIRFQKNHGTWVSEIGKGFL
 DGSLDKNMTRKKQYEDALMQLESVLRNIIKERKGRNFSQHIFIDSLVQGNLNDQQILED SMIFSLASCI
 TAKLCTWAICTTSEEVQKKLYEEINQVFGNGPVTPEKIEQLRYCQHVLCETVRTAKLTPVSAQFDIE
 GKIDRFIIPRETLVL YALGVVLQDPNTWSPHKFDPDRFDEL VMKTFSSLGSGTQECPELRFAYMVT
 VLLSVLVKRLHLLSVEGQVIETKYELVTSSREEAWITVSKRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6019_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177538

ORF Size: 1386 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:

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.

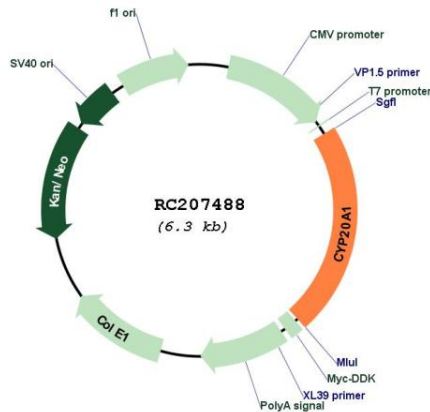
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177538.3](#)

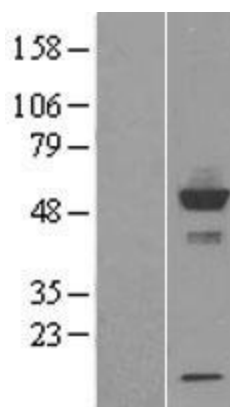
RefSeq Size: 10943 bp

RefSeq ORF:	1389 bp
Locus ID:	57404
UniProt ID:	Q6UW02
Cytogenetics:	2q33.2
Protein Families:	Druggable Genome, P450, Transmembrane
MW:	52.5 kDa
Gene Summary:	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein lacks one amino acid of the conserved heme binding site. It also lacks the conserved I-helix motif AGX(D,E)T, suggesting that its substrate may carry its own oxygen. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC207488



Western blot validation of overexpression lysate (Cat# [LY403595]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207488 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).