

Product datasheet for **RC223097**

CYP2F1 (NM_000774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP2F1 (NM_000774) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP2F1
Synonyms:	C2F1; CYP2F; CYP1IF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223097 representing NM_000774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAGCATAAGCACAGCCATCTTACTCCTGCTCCTGGCTCTCGTCTGTCTGCTCCTGACCCTAAGCT
 CAAGAGATAAGGGAAAGCTGCCTCCGGGACCCAGACCCCTCTCAATCCTGGGAAACCTGCTGCTGCTTTG
 CTCCCAAGACATGCTGACTTCTCTCACTAAGCTGAGCAAGGAGTATGGCTCCATGTACACAGTGCACCTG
 GGACCCAGGCGGGTGGTGGTCTCAGCGGGTACCAAGCTGTGAAGGAGGCCCTGGTGGACAGGGAGAGG
 AGTTTAGTGGCCGCGGTGACTACCCTGCCTTTTTCAACTTTACCAAGGGCAATGGCATCGCCTTCTCCAG
 TGGGGATCGATGGAAGTCTGAGACAGTTCTCTATCCAGATTCTACGGAATTCGGGATGGGGAAGAGA
 AGCATTGAGGAGCGAATCCTAGAGGAGGGCAGCTTCTGCTGGCGGAGCTGCGGAAAACCTGAAGGCGAGC
 CCTTTGACCCACGTTTGTGCTGAGTCGCTCAGTGTCCAACATTATCTGTTCCGTGCTCTTCGGCAGCCG
 CTTGACTATGATGATGAGCGTCTGCTCACCATTATCCGCCTTATCAATGACAACCTCCAATCATGAGC
 AGCCCCTGGGGCAGTTGTACGACATCTCCCGAGCCTCCTGGACTGGGTGCCTGGGCGCACCAACGCA
 TCTTCCAGAACTCAAGTGCCTGAGAGACCTCATCGCCACAGCGTCCACGACCACCAGGCTCGTAGA
 CCCCAGATCTCCCGGGACTTCCAGTGTCTCCTCACCAAGATGGCAGAGGAGAAGGAGGACCCACTG
 AGCCACTTCCACATGGATACCCTGCTGATGACCACACATAACCTGCTCTTTGGCGCACCAAGACGGTGA
 GCACCAGCTGCACCACGCTTCTGGCACTCATGAAGTACCCAAAAGTTCAAGCCCAGTGCAGGAGGA
 GATCGACTCGTGGTGGGACGCGCGGCTGCCGGCGTGAAGGACCGCGCGCCATGCCTTACACAGAC
 GCGGTGATCCACGAGGTGCAGCGCTTTCAGACATCATCCCATGAACCTGCCGACCCGCGTCACTAGGG
 ACACCCAGCCAGTTCTGACGCCCCAGGAGTTCAACCCGAGCATTTTTTGGATGCCAATCAGTCCCTTC
 AAGAAGAGTCCAGCCTTATGCCCTTCTAGCTGGGCGCGTCTGTGCCTGGGAGAGTCTGCGCGCGCA
 TGGAGCTCTTCTGTACCTCACCGCCATCCTGCAGAGCTTTTCGCTGCAGCCGCTGGGTGCGCCGAGGA
 CATCGACTGACCCACTCAGCTCAGGTCTGGCAATTTGCCGCGCCTTCCAGCTGTGCTGCGCCCG
 CGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223097 representing NM_000774
 Red=Cloning site Green=Tags(s)

MDSISTAILLLLLLALVCLLLTLSSRDKGLPPGPRPLSILGNLLLLCSQDMLTSLTKLSKEYGSMYTVHL
 GPRRVVVLSGYQAVKEALVDQEEFSGRGDYPAFNFNFKNGIAFSSGDRWKVLRQFSIQILRNFGMKR
 SIEERILEEGSFLLAELRKEGEPDPTFVLSRSVSNIIICSVLFGSRFDYDDERLLTIIRLINDNFQIMS
 SPWGELYDIFPSLLDWVPGPHQRIFQNFKCLRDLIAHSVHDHQASLDPRSPRDFIQCFLTKMAEEKEDPL
 SHFHMDTLLMTHNLLFGGKTVSTLHHAFLALMKYPKVQARVQEEIDLVVGRARLPALKDRAAMPYTD
 AVIHEVQRFADIIPMNLPHRVTRDTAFRGFLIPKGTDVITLLNTVHYDPSQFLTPQEFNPEHFLDANQSF
 KKSPAFMPFSAGRRLCLGESLARMELFLYLTAILQSFSLQPLGAPEDIDLTPLSSGLGNLPRPFQLCLRP
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8116_f10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_000774

ORF Size: 1473 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.

RefSeq: [NM_000774.5](#)

RefSeq Size: 1826 bp

RefSeq ORF: 1476 bp

Locus ID: 1572

UniProt ID: [P24903](#)

Cytogenetics: 19q13.2

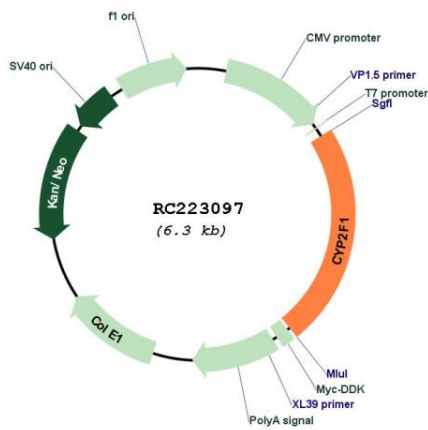
Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Metabolism of xenobiotics by cytochrome P450

MW: 55.3 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 protein localizes to the endoplasmic reticulum and is known to dehydrogenate 3-methylindole, an endogenous toxin derived from the fermentation of tryptophan, as well as xenobiotic substrates such as naphthalene and ethoxycoumarin. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223097