

Product datasheet for **RC216427**

CYP4F2 (NM_001082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4F2 (NM_001082) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP4F2
Synonyms:	CPF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216427 representing NM_001082
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCCAGCTGAGCCTGTCTGGCTGGGCTCTGGCCAGTGGCAGCATCCCCTTGCTGCTCCTCTGCT
 TGGTGGGGCCTCCTGGCTCCTGGCCATGTCTGGCCTGGACCTACGCCTTCTATGACAACTGCCGCCG
 CCTTCGGTGTTCACACAAACCCCAAGACGGAAGTGGTTTTGGGGACACCAGGGCATGGTCAACCCACAC
 GAGGAGGGCATGAGAGTTCTGACTCAGCTGGTGGCCACCTACCCCAAGGCTTTAAGGTCTGGATGGGAC
 CCATCTCCCCCTCCTCAGTTTGTGCCACCCGACATCATCCGGTCTGTCATCAACGCCTCAGCTGCCAT
 TGCACCAAGGACAAGTTCTTCTACAGTTCCTGGAGCCTGGCTGGGGGATGGGCTCCTGCTGAGTGTCT
 GGTGACAAAGTGGAGCCGCCACCGTCGGATGCTGACGCCTGCCTCCATTTCAACATCCTGAAGCCCTATA
 TGAAGATTTTCAATGAGAGTGTGAACATCATGCACGCCAAGTGGCAGCTCCTGGCCTCAGAGGGTAGTGC
 CTGTTTGGATATGTTTGGACACATCAGCCTCATGACCTTGACAGTCTACAGAAATGTGTCTTCAGCTTT
 GACAGCCATTGTCAGGAGAAACCCAGTGAATATATTGCCGCCATCTTGGAGCTCAGTGCCCTTGTATCAA
 AAAGACACCATGAGATCCTCCTGCATATTGACTTCTGTATTATCTCACCCCTGATGGGCAGCGTTTCCG
 CAGGGCCTGCCGCTGGTGCACGACTTCACAGATGCCGTATCCAGGAGCGGCCGCACTCTCCCTAGC
 CAGGGTGTGATGACTTCTCCAAGCCAAGGCCAAATCCAAGACTTTGGACTTATTGATGTACTCCTGC
 TGAGCAAGGATGAAGACGGGAAGAAGTTATCTGATGAGGACATAAGAGCAGAAGCTGACACCTTTATGTT
 TGAGGGCCATGACACCACGGCAGTGGTCTCCTGGTCTGTACCACCTTGAAGCAGCCAGAATAC
 CAGGAGCGCTGCCGCGAGGAGTGAAGAACTTCTGAAGGACCGTGGCCTAAAGAGATTGAATGGGACG
 ACCTGGCCCATTTGCCCTTCTGACCATGTGCATGAAGGAGAGCCTGCGGCTGCATCCCCAGTCCCGGT
 CATCTCCCGCCATGTCACCCAGGACATTGTCTCCAGACGCGCCGGTCAATCCCCAAAGGCATTATCTGC
 CTCATCAGTGTTCGGAAACCCATCACAAACCCAGCTGTGTGGCCGACCTGAGGTCTACGACCCCTTTC
 GCTTTGACCCAGAGAACATCAAGGAGAGGTACCTCTGGCTTTTATTCCCTTCTCGGCAGGGCCAGGAA
 CTGCATCGGGCAGACGTTTCGCGATGGCGGAGATGAAGGTGGTCTGGCGCTCACGCTGCTGCGCTCCGC
 GTCCTGCCTGACCACCCGAGCCCGCAGGAAGCCGGAGCTGGTCTGCGCGCAGAGGGCGGACTTTGGC
 TCGGGTGGAGCCCTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216427 representing NM_001082
 Red=Cloning site Green=Tags(s)

MSQLSLSWLGLWPVAASPWLLLLLVGASWLLAHVLAWTYAFYDNCRRRLRCFPQPPRRNFWGHQGMVNPT
 EEGMRVLTQLVATYPQGFVWMGPI SPLLSLCHPDIIRSVINASAAIAPKDKFFYSFLEPWLGDGLLSA
 GDKWSRHRMLTPAFHFNLIKPYMKIFNESVNIHAKWQLLASEGSACLDMFEHISLMTLDSLQKCVFSF
 DSHCQEKPSEYIAAILELSALVSKRHHEILLHIDFLYYLTPDQGRFRACRLVHDFDVAIQERRRRLPS
 QGVDDFLQAKAKSKTLDLFDVLLL SKDEDGKLSDEDIRAEADTFMFEHDTTASGLSWLYHLAKHPEY
 QERCQEVQELLKDREPKEIEWDDLHLPLTMCMKESLRLHPPVPVISRHVTQDIVLPDGRVIPKGIIC
 LISVFGTHHNPVWPDPVEYDPRFRDPENIKERSPLAFIPFSAGPRNCIGQTFAMAEMKVVLLALTLRFR
 VLPDHTEPRRKPELVLRAEGLWLRVEPLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8115_e10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001082

ORF Size: 1560 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_001082.5](#)

RefSeq Size: 2360 bp

RefSeq ORF: 1563 bp

Locus ID: 8529

UniProt ID: [P78329](#)

Cytogenetics: 19p13.12

Domains: p450

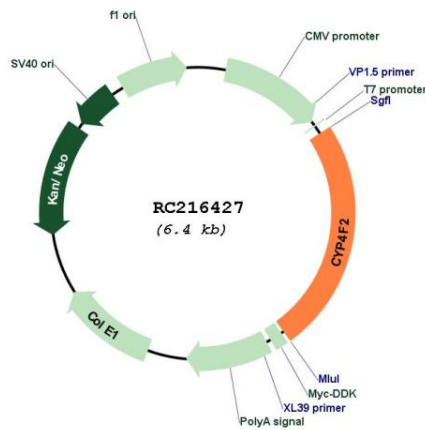
Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

MW: 59.7 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. The enzyme starts the process of inactivating and degrading leukotriene B4, a potent mediator of inflammation. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F11, is approximately 16 kb away. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216427