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Product datasheet for SC125489

CYP4F2 (NM_001082) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4F2 (NM_001082) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP4F2
Synonyms:	CPF2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF sequence for NM_001082 edited
GGTTGTCTGGGACAGACTGCTCCTGACAGAAGGATGTCCCAGCTGAGCCTGTCCTGGCTG
GGCCTCTGGCCAGTGGCAGCATCCCCTTGGCTGCTCCTCCTGCTGGTCGGGGCCTCCTGG
CTCCTGGCCCATGTCCTGGCCTGGACCTACGCCTTCTATGACAACTGCCGCCGCCTTCGG
TGTTTCCCACAACCCCCAAGACGGAACTGGTTTTGGGGACACCAGGGCATGGTCAACCCC
ACAGAGGAGGGCATGAGAGTTCTGACTCAGCTGGTGGCCACCTACCCCCAGGGCTTTAAG
GTCTGGATGGGACCCATCTCCCCCCTCCTCAGTTTGTGCCACCCCGACATCATCCGGTCT
GTCATCAACGCCTCAGCTGCCATTGCACCAAAGGACAAGTTCTTCTACAGCTTCCTGGAG
CCCTGGCTGGGGGATGGGCTCCTGCTGAGTGCTGGTGACAAGTGGAGCCGCCACCGTCGG
ATGCTGACGCCTGCCTTCCATTTCAACATCCTGAAGCCCTATATGAAGATTTTCAATGAG
AGTGTGAACATCATGCACGCCAAGTGGCAGCTCCTGGCCTCAGAGGGTAGTGCCTGTTTG
GATATGTTTGAGCACATCAGCCTCATGACCTTGGACAGTCTACAGAAATGTGTCTTCAGC
TTTGACAGCCATTGTCAGGAGAAACCCAGTGAATATATTGCCGCCATCTTGGAGCTCAGT
GCCCTTGTATCAAAAAGACACCATGAGATCCTCCTGCATATTGACTTCCTGTATTATCTC
ACCCCTGATGGGCAGCGTTTCCGCAGGGCCTGCCGCCTGGTGCACGACTTCACAGATGCC
GTCATCCAGGAGCGGCGCCGCACTCTCCCTAGCCAGGGTGTTGATGACTTCCTCCAAGCC
AAGGCCAAATCCAAGACTTTGGACTTCATTGATGTACTCCTGCTGAGCAAGGATGAAGAC
GGGAAGAAGTTATCTGATGAGGACATAAGAGCAGAAGCTGACACCTTTATGTTTGAGGGC
CATGACACCACGGCCAGTGGTCTCTCCTGGGTCCTGTACCACCTTGCAAAGCACCCAGAA
TACCAGGAGCGCTGCCGGCAGGAGGTGCAAGAACTTCTGAAGGACCGTGAGCCTAAAGAG
ATTGAATGGGACGACCTGGCCCATTTGCCCTTCCTGACCATGTGCATGAAGGAGAGCCTG
CGGCTGCATCCCCCAGTCCCGGTCATCTCCCGCCATGTCACCCAGGACATTGTGCTCCCA
GACGGCCGGGTCATCCCCAAAGGCATTATCTGCCTCATCAGTGTTTTCGGAACCCATCAC
AACCCAGCTGTGTGGCCGGACCCTGAGGTCTACGACCCCTTTCGCTTTGACCCAGAGAAC
ATCAAGGAGAGGTCACCTCTGGCTTTTATTCCCTTCTCGGCAGGGCCCAGGAACTGCATC
GGGCAGACGTTCGCGATGGCGGAGATGAAGGTGGTCCTGGCGCTCACGCTGCTGCGCTTC
CGCGTCCTGCCTGACCACACCGAGCCCCGCAGGAAGCCGGAGCTGGTCCTGCGCGCAGAG
GGCGGACTTTGGCTGCGGGTGGAGCCCCTGAGCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001082 unedited
NCCCCCCCCCCNNCCCNNNNCCCCCCGGCCGGTCCAAAATTGTATACGACTCATATAGGCG
GCCCGCGAATTCGCACGAGAAGAAAAGAGGTTGTCTGGGACAGACTGCTCCTGACAGAAG
GATGTCCCAGCTGAGCCTGTCCTGGCTGGGCCTCTGGCCAGTGGCAGCATCCCCTTGGCT
GCTCCTCCTGCTGGTCGGGGCCTCCTGGCTCCTGGCCCATGTCCTGGCCTGGACCTACGC
CTTCTATGACAACTGCCGCCGCCTTCGGTGTTTCCCACAACCCCCAAGACGGAACTGGTT
TTGGGGACACCAGGGCATGGTCAACCCCACAGAGGAGGGCATGAGAGTTCTGACTCAGCT
GGTGGCCACCTACCCCCAGGGCTTTAAGGTCTGGATGGGACCCATCTCCCCCCTCCTCAG
TTTGTGCCACCCCGACATCATCCGGTCTGTCATCAACGCCTCAGCTGCCATTGCACCAAA
GGACAAGTTCTTCTACAGCTTCCTGGAGCCCTGGCTGGGGGATGGGCTCCTGCTGAGTGC
TGGTGACAAGTGGAGCCGCCACCGTCGGATGCTGACGCCTGCCTTCCATTTCAACATCCT
GAAGCCCTATATGAAGATTTTCAATGAGAGTGTGAACATCATGCACGCCAAGTGGCAGCT
CCTGGCCTCAGAGGGTAGTGCCTGTTTGGATATGTTTGAGCACATCAGCCTCATGACCTT
GGACAGTCTACAGAAATGTGTCTTCAGCTTTGACAGCCATTGTCAGGAGAAACCCAGTGA
ATATATTGCCGCCATCTTGGAGCTCAGTGCCCTTGTATCAAAAAGACACATGAGATCCTN
CTGCATATTGACTTCCCTGTATATCTCACCCTGATGGGCAGCGTTTCCGCAAGGCCTGCC
GCCTGGTGCACGACTCACAGATGCGTCAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001082 unedited
NNCCTATCTTGNACCCGGCCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTTCCTAA
GAGATTTAATGTCATGGAAAAAAGCTCACAGCATATTATTATATGAACAACCTGGACAGA
AAAAAATGTATGTGAGATAAAATAGCAAATTTTTTTGATTGAGGTAGAATTCACATACCA
CGAAATTCACCATTTCAAAGTGTCCAATTCAATAGCATTTAGTGCACTCACAGTGTCGTG
CTACCTTCGTCACTATCTAGGTCCGGAACATTTTCACCATCCCGGGAGGAAACCCCATAC
TGATTAGCAGTCGCTCCTCAGTCCCACCTCCCCACAGCTGCTGAAAGCCACCAATCCGCT
ATGCATCTCTTCAGATTGGCCTGTTCTGGAAATTTCGTATAAAAGGACAGTACACTATGT
GACCTTTTGCATCTGACGTCTTTCATTCAGTATCATGCATTCAAGGTTCATCCACAGTGT
AGTAGGGATCACTGCTTCATTCCTTTTTATGGCTGTGTAATACTCCATTGTATGGATGGA
CCACATTTTGTTTATCCTTTCATCTGGTAATATATAGCTTGGGGTTGTTTTCATCGTTTG
GCTACTGTGAATAGGGCCGCCATGAACATTCACGCACAAGCGTCTTTCTGTTTGAACACT
TGTCTCAATTATTTTGAGTAGATATCTAGGATGGAATACAGGACTGTGGAACAGGGTCTT
AGGGTAATTCTAGGCTTCACTTTTGATGAATCANGGGTCATTTTAGTGGGGTCAGAGTGG
GTCTCTGCAGACTCAGCTCAGGGGCTCCACCGCAGCCAAAGTCGCCTCTGCGCGCAGGAC
AGCTNCGGCTCCTGCGGGCTGGGTGGGTCCAGGCAGACGCGAAGCCANCACGTGAGCGCC
AGACACCTCATNTCGCTGGGGACGTTGCCC

Restriction Sites: NotI-NotI

ACCN: NM_001082

Insert Size: 2240 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001082.3, NP_001073.3

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

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]