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Product datasheet for SC120792

CYP2U1 (NM_183075) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP2U1 (NM_183075) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP2U1
Synonyms:	P450TEC; SPG49; SPG56
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF sequence for NM_183075 edited
GGCGGCCCGCGATTCGGCACGAGGCACTGGCGCCGCGGGTCAGGCAGCTGCGTGCGCGTC
TCCTCCAGGCAGCAAGGGGAACCCGAGGCCGCCGGCGCCCGGACCATGTCGTCTCCGGGG
CCGTCGCAGCCGCCGGCCGAGGACCCGCCCTGGCCCGCGCGCCTCCTGCGTGCGCCTCTG
GGGCTGCTGCGGCTGGACCCCAGCGGGGGCGCGCTGCTGCTATGCGGCCTCGTAGCGCTG
CTGGGCTGGAGCTGGCTGCGGAGGCGCCGGGCGCGGGGCATCCCGCCCGGGCCCACGCCC
TGGCCTCTGGTGGGCAACTTCGGTCACGTGCTGCTGCCTCCCTTCCTCCGGCGGCGGAGC
TGGCTGAGCAGCAGGACCAGGGCCGCAGGGATTGATCCCTCGGTCATAGGCCCGCAGGTG
CTCCTGGCTCACCTAGCCCGCGTGTACGGCAGCATCTTCAGCTTCTTTATCGGCCACTAC
CTGGTGGTGGTCCTCAGCGACTTCCACAGCGTGCGCGAGGCGCTGGTGCAGCAGGCCGAG
GTCTTCAGCGACCGCCCGCGGGTGCCGCTCATCTCCATCGTGACCAAGGAGAAGGGGGTT
GTGTTTGCACATTATGGTCCCGTCTGGAGACAACAAAGGAAGTTCTCTCATTCAACTCTT
CGTCATTTTGGGTTGGGAAAACTTAGCTTGGAGCCCAAGATTATTGAGGAGTTCAAATAT
GTGAAAGCAGAAATGCAAAAGCACGGAGAAGACCCCTTCTGCCCTTTCTCCATCATCAGC
AATGCCGTCTCTAACATCATTTGCTCCTTGTGCTTTGGCCAGCGCTTTGATTACACTAAT
AGTGAGTTCAAGAAAATGCTTGGTTTTATGTCACGAGGCCTAGAAATCTGTCTGAACAGT
CAAGTCCTCCTGGTCAACATATGCCCTTGGCTTTATTACCTTCCCTTTGGACCATTTAAG
GAATTAAGACAAATTGAAAAGGATATAACCAGTTTCCTTAAAAAAATCATCAAAGACCAT
CAAGAGTCTCTGGATAGAGAGAACCCTCAGGACTTCATAGACATGTACCTTCTCCACATG
GAAGAGGAGAGGAAAAATAATAGTAACAGCAGTTTTGATGAAGAGTACTTATTTTATATC
ATTGGGGATCTCTTTATTGCTGGGACTGATACCACAACTAACTCTTTGCTCTGGTGCCTG
CTGTATATGTCGCTGAACCCCGATGTACAAGAAAAGGTTCATGAAGAAATTGAAAGAGTC
ATTGGCGCCAACCGAGCTCCTTCCCTCACAGACAAGGCCCAGATGCCCTACACAGAAGCC
ACCATCATGGAAGTGCAGAGGCTAACTGTGGTGGTGCCGCTTGCCATTCCTCATATGACC
TCAGAGAACACAGTGCTCCAAGGGTATACCATTCCTAAAGGCACATTGATCTTACCCAAC
CTGTGGTCAGTACATAGAGACCCAGCCATTTGGGAGAAACCGGAGGATTTCTACCCTAAT
CGATTTCTGGATGACCAAGGACAACTAATTAAAAAAGAAACCTTTATTCCTTTTGGGATA
GGGAAGCGGGTGTGTATGGGAGAACAACTGGCAAAGATGGAATTATTCCTAATGTTTGTG
AGCCTAATGCAGAGTTTCGCATTTGCTTTACCTGAGGATTCTAAGAAGCCCCTCCTGACT
GGAAGATTTGGTCTAACTTTAGCCCCACATCCATTTAATATAACTATTTCAAGGAGATGA
AGAGCATCTCCAAGAAGAGATGGTAAAAAGATATATAAATACATATCCTTCTAAGCAGAT
TCTTCCTACTGCAAAGGACAGTGAATCCAGCAACTCAGTGGATCCAAGCTGGGCTCAGAG
GTCGGAAGGAGGGTAGAGCACACTGGGAGGTTTCATCTTGGAGGATTCCTCAGCAAGATA
CTTCAGCCATTTTAGTAATGCAGGTCTGTGAT

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_183075 unedited
GGGCGGCACGCGAATTCGCACGAGGCACTGGCGCCGCGGGTCATGCAGCTGCGTGCGCGT
CTCCTCCAGGCAGCAAGGGAGAACCCGAGGCCGCCGGCGCCCGGACCATGTCGTCTCCGG
GGCCGTCGCATCCGCCGGCCGAGGACCCGCCCTGGCCCGCGCGCCTCCTGCGTGCGCCTC
TGGGGCTGCTGCGGCTGGACCCCAGCGGGGGCGCGCCGCTGCCATGCGGCCTCGTAGCGC
CGCTGGGCTGGAGCTGGCTGCGGAGGCCCCGGGCGCGGGGCATCCCGCCCGGGCCCACGC
CCTGGCCTCTGGTGGGCAACTTCGGTCACGTGCCTGCTGCCTCCCTTCCTCCGGCGGCGG
AGCTGGCTGAGCAGCAAGACCAGGGCCGCAAGGATTGATTCCCTCGGTCATAGGCCCGCA
AGTGCCTCCTGGCTCACCTAGCCCGCGTGTACAGCAGCATCTTCAGCTTCTTTATCGGCC
ACTACCTGGTGGTGGTCCTCAGCGACTTCCACAGCGTGCGCGAGGCGCTGGTGCAGCAAG
CCGAGGTCTTCAGCGACCGCCCGCGGGTGCCGCTCATCTCCATCGTGACCAAAGAGAATG
GGGTCTGTGTTTGCACATTATGAGTCCCGTCTGGAGACAACAAAGGAAGTTCTCTCATTC
AACTCTTCGTCATTTTGGGTTGGGAAATCTTAGCTTGGAGCCCAAGATTATTGANGAGTT
CANATATGTGAAAGCAGATATGCANAAGCCACGGAGAAGACCCCTGCTGCCCTTGCTNCA
TCATCAGCAAATGCCGTCTCTAACATCATTTTGCTCCTTGTGCTTTAGCCAGCGCTTTGA
TTACACCTATAGTGAGTTCAAGAAATGCCTAGNNTTTTATGTCACGAGCCTANNAAATCT
GTCTGACAGTCAAGTCCTCCTGNTC

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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_183075 unedited
ATGGACCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTCAGTTAAAATAGT
TTAATAAAAGCAACAAAACTGTGCTAACGATGAGAATCAAAAATGAGATATTAGGTAGAC
TTATAAAACAAAGTATAGTTATTTTTTGATTTCAAATAAACCATGTGCAAAATTGTAAAA
TGCCAATGTGTCTGAGAAAAGCATTAACAGTCCTTTTAGCAATTTATATATAAAGATGTT
TTTAAAGTGCCACAGCTTAAGGCATTATATTTTAAAGTTTAATAAACATCTAATTTCAAC
ATCTCTCCAAGAACAGACTTCTTCTCAATAAGCTATAAACTATTTGGTTAGGAATATTGA
AAATGCATGTATAATTTAAGGAGTAATATACTTGTTAATGCTGAGTTATTAGTGCAATTC
AAAAGCATATGAATTCCATATCAAGAACAAACTCTCCCGCCCAAGGTACAGTGTAATCCA
CACTGTATCATCTCATCTAAAAATCTATACAGCAGCTACCCCATCCACTCAGTTCCTCTG
CAGTTAGGCTATTAGCTTTTCTTTTTCAAAAAGCAAAAATTCCTAAGACACCTAAAGATT
AGCCTGTATTTCATTTATCTATACTGAAAGTGCTTAGTAATATTTCTAAAAAGGAAAAGA
GCAGTATGGTAGATAAAGAATGTAGAGTCAAAAATCAATCATTTTAAAATTTTTCTTCTT
CCTATGATTATGTTTTGGTTAAGCAGATATTATTTTCATTTTTTGAGCTTGCAAAAGTCT
GCCTAGGAATGTGCTAAATCAAAGGAAAAATCTAGCCTCATGTTCACAATTGCCCTGGAA
TGCCATTCCCAGACTGAGATCTAACTCACAGAGTATGGCTAACGGCAGAAGTCANAGGTA
NGGGAGATCTGTGTCNTCATTTATCTGGAAACGAGCAAGAAGGTGATCAGTATAGAGGCA
AACAGATGTTTTAAGTCAGAATCATCTTTCGTTATTTTCAAGTACC

Restriction Sites: NotI-NotI

ACCN: NM_183075

Insert Size: 4690 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_183075.2, NP_898898.1

RefSeq Size: 4760 bp

RefSeq ORF: 1635 bp

Locus ID: 113612

UniProt ID: Q7Z449

Cytogenetics: 4q25

Protein Families: Druggable Genome, P450, Transmembrane

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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 enzyme is a hydroxylase that metabolizes arachidonic acid, docosahexaenoic acid, and other long chain fatty acids. [provided by RefSeq, Jul 2008]

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