

Product datasheet for **SC108338**

CYP4F22 (NM_173483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4F22 (NM_173483) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP4F22
Synonyms:	ARC15; INLNE; LI3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_173483 edited
CTCGTTTGTAGTGAACCGTCAGAAATTTGTAAACGACTCACTATAGGGCGGCCGCGAATTC
GGCAGCAGGGAAGAAGACAGTGAACCCAAAAGAATTGAAAACAGGATGCTGCCCATCACA
GACCGCTGCTGCACCTCCTGGGCTGGAGAAGACGGCGTTCCGCATATACGCGGTGTCC
ACCTTCTCCTCTTCTGCTCTTCTTCTGTTCCGCTGCTGCTGCGGTTCTGAGGCTC
TGCAGGAGCTTCTACATACCTGCCCGGGCTGCGCTGCTTCCCCAGCCTCCCCGGCGC
AACTGGCTGCTGGGCCACCTGGGCATGTACCTTCAAATGAGGCGGGCCTTCAAGATGAG
AAGAAGGTACTGGACAACATGCACCATGTACTCTTGGTATGGATGGGACCTGTCTTGCCG
CTGTTGGTTCTGGTGACCCCTGATTACATCAAACCCCTTTTGGGAGCCTCAGTGCCATC
GCCCCAAGGATGACCTTCTATGGCTTCTTAAACCTTGGCTAGGGGATGGGCTGCTG
CTCAGCAAAGGTGACAAGTGGAGCCGGCACCGTCGCTGCTGACACCCGCTTCCACTTT
GACATCTGAAGCCTTACATGAAGATCTTCAACCAGAGCGCTGACATTATGCATGCTAAA
TGGCGGCATCTGGCAGAGGGCTCAGCGGTCTCCCTTGATATGTTTGAGCATATCAGCCTC
ATGACCTGGACAGTCTTCAAGAAATGTGTCTTCAGCTACAACAGCAACTGCCAAGAGAAG
ATGAGTGATTATATCTCCGCTATCATTGAAGTGAAGCGCTGTGTGTCCGGCGCCAGTAT
CGCTTGACCACTACCTCGACTTCATTTACTACCGCTCGGCGGATGGGCGGAGGTTCCGG
CAGGCCTGTGACATGGTGACCACTTCACCACTGAAGTCATCCAGGAACGGCGGCGGCA
CTGCGTCAGCAGGGGGCCGAGGCTGGCTTAAGGCCAAGCAGGGGAAGACCTTGGACTTT
ATTGATGTGCTGCTCCTGGCCAGGATGAAGATGGAAAGGAAGTGTGACGAGGATATC
CGAGCCGAAGCAGACACCTTCATGTTTGAGGGTCACGACACAACATCCAGTGGGATCTCT
TGGATGCTGTTCAATTTGGCAAAGTATCCGGAATACCAGGAGAAATGCCGAGAAGAGATT
CAGGAAGTCATGAAAGGCCGGGAGCTGGAGGAGCTGGAGTGGGACGATCTGACTCAGCTG
CCCTTTACAACATATGTGCATTAAGGAGAGCCTGCGCCAGTACCCACCTGTCACTCTTGTC
TCTCGCCAATGCACGGAGGACATCAAGCTCCAGATGGGCGCATCATCCCCAAAGGAATC
ATCTGCTTGGTCAGCATCTATGGAACCCACCACAACCCACAGTGTGGCCTGACTCCAAG
GTGTACAACCCCTACCGCTTTGACCCGGACAACCCACAGCAGCGCTCTCCACTGGCCTAT
GTGCCCTTCTCTGCAGGACCCAGGAATTGCATCGGACAGAGCTTCGCCATGGCCGAGTTG
CGCGTGGTTGTGGCACTAACACTGCTACGTTTCCGCTGAGCGTGGACCGAACGCGCAAG
GTGCGGCGGAAGCCGGAGCTCATACTGCGCACGGAGAACGGGCTCTGGCTCAAGGTGGAG
CCGCTGCCTCCGCGGGCCTGAGCGTGGGCGCGCCCTGCGGCTCCCGAGGGTCCAGGCC
CGCCCCAAAGGACCAGGACTCGCCCCAAGATCCCGAGGGCATAGGCCACCCCCCTCGA
AGTTTCAGGTTTCACTCCTGGATGACCAGGCACCGCTGTTGAGCAGCCTGGTGGTACTGGC
CACGCCCCCTCAAGGCAAGGCTCCGCCCTTAGGGGGCTGATCCCGCCCCCTTGGGCTTA
G
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_173483 unedited GTAATACGACTCACTTATAGGGCGGCCGAATTCGCACGAGGAAGAAGACGTGAACCCA AAAGATTGAAACAGGATGCTGCCCATCACAGACCGCTGCTGCACCTCCTGGGGCTGGAG AAGACGGCGTTCCGCATATACGCGGTGTCCACCCTTCTCCTCTTCTGCTCTTCTTCTG TTCCGCCTGCTGCTGCGGTTCTGAGGCTCTGCAGGAGCTTCTACATCACCTGCCGCCGG CTGCGCTGCTTCCCCAGCCTCCCCGGCGCAACTGGCTGCTGGGCCACCTGGGCATGTAC CTTCCAAATGAGCGGGCCTTCAAGATGAGAAGAAGTACTGGACAACATGCACCATGTA CTCTTGGTATGGATGGGACCTGTCTGCCGCTGTTGGTTCTGGTGCACCCTGATTACATC AAACCCCTTTTGGGAGCCTCAGCTGCCATCGCCCCCAAGGATGACCTCTTCTATGGCTTC CTAAAACCTTGGCTAGGGGATGGGCTGCTGCTCAGCANAGGTGACAAGTGGAGCCGGCAC CGTCGCTGCTGACACCCGCCTTCCACTNTGACATCCTGAAGCCTTACATGAAGATCTTC AACCAGAGCGCTGACATTATGCATGCTAAATGGCGGCATCTGGGCAGAGGCTCAGCGGTC TCCCTTGATATNGTTGAGCATATCAGCCTCATGACCCTGGACAGTCTTCAGAAAAATGTGT CTTCAGCTACCAACAGCACTGCCAAGAGAAGATGAGTGATATATCTCCGCTATCATTGAA CTGAGCGCTCTGTCTGTTCCGGCGCCAGTATCGCTTGACCACTACCTCGACTTCATTAC TACCCGCTCGCNGATGGNCNGNAGNTCCNNGCAGCCTGTGACATGTGCACACTTCACACT GAGTCATCCAGAAACGCGCGGCACTGCGTCACAGGGGCCCGAGCCCTGCTAGGCCANCAN GGAGACCTGACTTATGATGGCTGCTCTGCCAGNATGAAATGAANGACTGCNACAGATTC GAGCGACACACCTCGNTGAGGTCGACACATCATNATCTG
Restriction Sites:	NotI-NotI
ACCN:	NM_173483
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:	<u>NM_173483.1, NP_775754.1</u>
RefSeq Size:	2608 bp
RefSeq ORF:	1596 bp
Locus ID:	126410
UniProt ID:	<u>Q6NT55</u>
Cytogenetics:	19p13.12
Domains:	p450
Protein Families:	Druggable Genome, Transmembrane

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 gene is part of a cluster of cytochrome P450 genes on chromosome 19 and encodes an enzyme thought to play a role in the 12(R)-lipoxygenase pathway. Mutations in this gene are the cause of ichthyosis lamellar type 3. [provided by RefSeq, Jul 2008]