

Product datasheet for **RC210185**

CYP4F22 (NM_173483) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4F22 (NM_173483) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP4F22
Synonyms:	ARCI5; INLNE; LI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210185 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCCATCACAGACCGCTGCTGCACCTCCTGGGGCTGGAGAAGACGGCGTTCGCATATACGCGG
 TGTCACACCTTCTCCTCTTCTGCTCTTCTTCTGTTCCGCTGCTGCTGCGGTTCTGAGGCTCTGCAG
 GAGCTTCTACATCACTGCCGCCGGCTGCGCTGCTTCCCCAGCCTCCCCGGCGCAACTGGCTGCTGGG
 CACCTGGGCATGTACCTTCCAAATGAGGCGGGCCTTCAAGATGAGAAGAAGGTAAGTGGACAACATGCACC
 ATGTACTCTTGGTATGGATGGGACCTGTCTGCCGCTGTTGGTCTGGTGACCCCTGATTACATCAAACC
 CCTTTTGGGAGCCTCAGTGCCTCGCCCCAAGGATGACCTCTTCTATGGCTTCTTAAACCTTGGCTA
 GGGGATGGGCTGCTGCTCAGCAAAGGTGACAAGTGAGCGCGCACCGTCGCTGCTGACACCCGCTTCC
 ACTTTGACATCCTGAAGCCTTACATGAAGATCTTCAACCAGAGCGCTGACATTATGCATGCTAAATGGCG
 GCATCTGGCAGAGGGCTCAGCGGTCTCCCTTGATATGTTTGAGCATATCAGCCTCATGACCTGGACAGT
 CTTCAGAAATGTGCTTCTAGCTACAACAGCAACTGCCAAGAGAAGATGAGTGATTATATCTCCGCTATCA
 TTGAACTGAGCGCTCTGTCTGTCCGGCGCCAGTATCGCTTGACCACTACCTCGACTTCATTTACTACCG
 CTCGGCGGATGGGCGGAGGTTCCGGCAGGCCTGTGACATGGTGCACCACTTCACCACTGAAGTCATCCAG
 GAACGGCGGGCGGCACTGCGTCAGCAGGGGGCCGAGGCTGGCTTAAGGCCAAGCAGGGGAAGACCTTGG
 ACTTTATTGATGTGCTGCTCTGCGCCAGGGATGAAGATGGAAAGGAAGTGTGACAGGAGATATCCGAGC
 CGAAGCAGACACCTTCATGTTTGAAGGTGACGACACAACATCCAGTGGGATCTCTTGGATGCTGTTCAAT
 TTGGCAAAGTATCCGGAATACCAGGAGAAATGCCGAGAAGAGATTCAGGAAGTCATGAAAGGCCGGGAGC
 TGGAGGAGCTGGAGTGGGACGATCTGACTCAGCTGCCCTTTACAACTATGTGCATTAAGGAGAGCCTGCG
 CCAGTACCCACCTGTCACTCTTGTCTCTCGCCAATGCACGGAGGACATCAAGCTCCAGATGGGCGCATC
 ATCCCCAAAGGAATCATCTGCTTGGTCAAGTCTATGGAACCCACCACAACCCCAAGTGTGGCCTGACT
 CCAAGGTGTACAACCCCTACCGCTTTGACCCGGACAACCCACAGCAGCGCTCTCCACTGGCCTATGTGCC
 CTTCTCTGAGGACCCAGGAATTGCATCGGACAGAGCTTCGCCATGGCCGAGTTGCGCGTGGTTGTGGCA
 CTAACACTGCTACGTTTCCGCTGAGCGTGGACCGAACGCGCAAGGTGCGGCGGAAGCCGGAGCTCATAC
 TGCGCACGGAGAACGGGCTCTGGCTCAAGGTGGAGCGCTGCCTCCGCGGGCC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210185 protein sequence
 Red=Cloning site Green=Tags(s)

MLPITDRLLHLLGLEKTAARIYAVSTLLLFLLFLLRLLRFLRLCRSFYITCRRLRCFPQPPRRNWLLG
 HLGMYLPNEAGLQDEKKVLDNMHHVLLVWMPVLPPLLVLVHPDYIKPLLASAAIAPKDDLFGYFLKPWL
 GDGLLLSKGDKWSRHRRLTPAFHFDILKPYMKIFNQSAIDIMHAKWRHLAEGSAVSLDMFEHISLMTLDS
 LQKCVFSYNSNCQEKMSDYISAIIELSALSVRRQYRLHHYLDIFIYRSADGRRFRQACDMVHHFTTEVIQ
 ERRRALRQQGAEAWLKAKQGKTLDFIDVLLARDEDEGKELSDIEDIRAEADTFMFEGHDTTSSGISWMLFN
 LAKYPEYQEKCREEIQEVMKGRELEELWDDLTLQPFITMCIKESLRQYPPVTLVSRQCTEDIKLPDGRI
 IPKGIICLVSIYGHNPVWPDSKVYNPYRFPDNPQQRSPALYVPFSAGPRNCIGQSFAMAEALRVVVA
 LTLLRFRLLSVDTRKVRKPELILRTENGLWLKVEPLPPRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6271_h11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_173483

ORF Size: 1593 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_173483.4

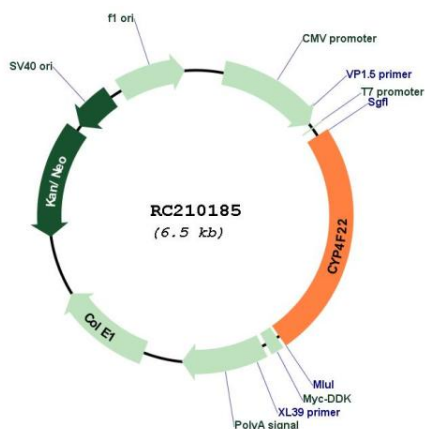
RefSeq Size: 2620 bp

RefSeq ORF: 1596 bp

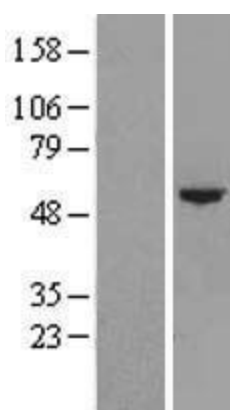
Locus ID: 126410

UniProt ID:	<u>Q6NT55</u>
Cytogenetics:	19p13.12
Domains:	p450
Protein Families:	Druggable Genome, Transmembrane
MW:	62 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 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]

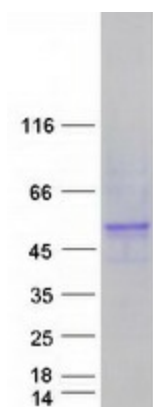
Product images:



Circular map for RC210185



Western blot validation of overexpression lysate (Cat# [LY406600]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210185 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CYP4F22 protein (Cat# [TP310185]). The protein was produced from HEK293T cells transfected with CYP4F22 cDNA clone (Cat# RC210185) using MegaTran 2.0 (Cat# [TT210002]).