

Product datasheet for **RG210185**

CYP4F22 (NM_173483) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4F22 (NM_173483) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP4F22
Synonyms:	ARC15; INLNE; LI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210185 representing NM_173483
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCCATCACAGACCGCTGCTGCACCTCCTGGGGCTGGAGAAGACGGCGTTCGCATATACGCGG
 TGTCACACCTTCTCCTCTTCTCTTCTTCTGTTCCGCTGCTGCTGCGGTTCTGAGGCTCTGCAG
 GAGCTTCTACATCACTGCCGCCGGCTGCGCTGCTTCCCCAGCCTCCCCGGCGAACTGGCTGCTGGG
 CACCTGGGCATGTACCTTCCAAATGAGGCGGCCCTTCAAGATGAGAAGAAGGTAAGTGGACAACATGCACC
 ATGTACTCTTGGTATGGATGGGACCTGTCTGCCGCTGTTGGTTCTGGTGACCCGTGATTACATCAAACC
 CCTTTTGGGAGCCTCAGTGCACCGCCCCAAGGATGACCTCTTCTATGGCTTCTAAAACCTTGGCTA
 GGGGATGGGCTGCTGCTCAGCAAAGGTGACAAGTGAGCGCGCACCGTCGCTGCTGACACCGCCTTCC
 ACTTTGACATCCTGAAGCCTTACATGAAGATCTTCAACCAGAGCGCTGACATTATGCATGCTAAATGGCG
 GCATCTGGCAGAGGGCTCAGCGGTCTCCCTTGATATGTTTGAGCATATCAGCCTCATGACCTGGACAGT
 CTTCAGAAATGTGTCTTCACTACAACAGCAACTGCCAAGAGAAGATGAGTGATTATATCTCCGCTATCA
 TTGAAGTGAAGCGCTCTGTCTGTCCGGCGCCAGTATCGCTTGACCACTACCTCGACTTCATTTACTACCG
 CTCGGCGGATGGGCGGAGGTTCCGGCAGGCCTGTGACATGGTGCACCACTTCACCACTGAAGTCATCCAG
 GAACGGCGCGGGCACTGCGTCGGCAGGGGGCCGAGGCTGGCTTAAGGCCAAGCAGGGGAAGACCTTGG
 ACTTTATTGATGTGCTGCTCCTGGCCAGGGATGAAGATGGAAAGGAAGTGTGACAGGAGATATCCGAGC
 CGAAGCAGACACCTTCATGTTTGAAGGTGACGACACAACATCCAGTGGGATCTCTTGGATGCTGTTCAAT
 TTGGCAAAGTATCCGGAATACCAGGAGAAATGCCGAGAAGAGATTAGGAAGTCATGAAAGGCCGGGAGC
 TGGAGGAGCTGGAGTGGGACGATCTGACTCAGCTGCCCTTTACAACTATGTGATTAAGGAGAGCCTGCG
 CCAGTACCCACCTGTCACTCTTGTCTCTCGCAATGCACGGAGGACATCAAGCTCCAGATGGGCGCATC
 ATCCCCAAAGGAATCATCTGCTTGGTCAAGTCTATGGAACCCACCACAACCCCAAGTGTGGCCTGACT
 CCAAGGTGTACAACCCCTACCGCTTTGACCCGGAACCCACAGCAGCGCTCTCCACTGGCCTATGTGCC
 CTTCTCTGAGGACCCAGGAATTGCATCGGACAGAGCTTCGCCATGGCCGAGTTGCGCGTGGTTGTGGCA
 CTAACACTGCTACGTTTCCGCTGAGCGTGGACCGAACGCGCAAGGTGCGGCGGAAGCCGGAGCTCATAC
 TGGCAGCGGAGAACGGGCTCTGGCTCAAGGTGGAGCGCTGCCTCCGCGGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210185 representing NM_173483
 Red=Cloning site Green=Tags(s)

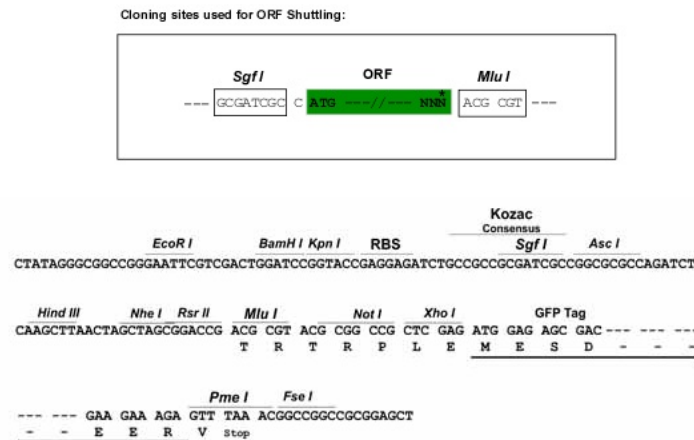
MLPITDRLLHLLGLEKTAARIYAVSTLLLFLFFLFRLLRFLRLCRSFYITCRRLRCFPQPPRRNWLLG
 HLGMYLPNEAGLQDEKKVLDNMHHVLLVWMGPVLPPLLVLPDYIKPLLGAASAAPKDDLFGFLKPWL
 GDGLLLSKGDKWSRHRLLTPAFHFDILKPYMKIFNQADIMHAKWRHLAEGSAVSLDMFEHISLMTLDS
 LQKCVFSYNSNCQEKMSDYISAIIELSALSVRRQYRLHHYLDIYYRSADGRRFRQACDMVHHFTTEVIQ
 ERRRALRRQGAEAWLKAKQGKTLDFIDVLLARDEDGKELSDIEDIRAEADTFMFEGHDTTSSGISWMLFN
 LAKYPEYQEKREEIQEVMKGRELEEWDDLTLPLFTTMCIKESLRQYPPVTLVSRQCTEDIKLPDGR
 IPKGIICLVSIYGHNPVWPDSKVYNPYRFDPNPQQRSPALYVPFSAGPRNCIGQSFAMAELRVVVA
 LTLLRFRLSVDTRKVRKPELILRTENGLWLKVEPLPPRA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-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_173483.2](#)

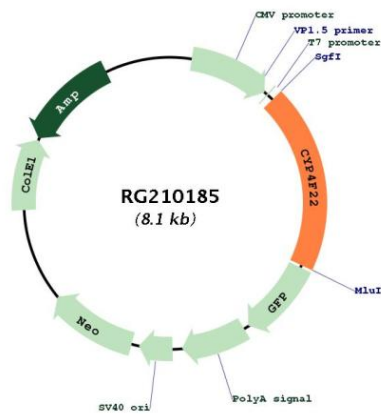
RefSeq Size: 2608 bp

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]

Product images:



Circular map for RG210185