

Datasheet for ABIN4930779

## Human CYP4F8 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	CYP4F8
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PExp)

### Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human CYP4F8 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1563 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGTCGCTGC TGAGCCTGTC TTGGCTGGGC CTCAGGCCGG TGGCAGCATC CCCGTGGCTG CTCCTGCTGG TGGTCGGGGC CTCCTGGCTC CTGGCCCGCA TCCTGGCCTG GACCTATGCC TTCTATCACA ACGGCCGCCG CCTCCGGTGT TTCCCGCAGC CCCGAAACA GAACTGGTTC TTGGGTCACC TGGGCCTGGT CACTCCCACA GAGGAGGGCT TGAGGGTCCT GACCCAGCTG GTGGCCACCT ACCCCAGGG CTTTGTGAGG TGGTTGGGCC CCATCACTCC CATCATCAAC

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TTGTGCCACC CTGACATCGT CCGATCTGTC ATCAATACCT CAGATGCCAT TACAGACAAG  
GACATAGTCT TCTACAAGAC CCTGAAGCCC TGGCTGGGGG ATGGGCTCTT GTTAAGTGTT  
GGTGACAAGT GGAGACACCA CCGTCGCTTG CTGACGCCTG CCTTCCATTT CAACATCCTG  
AAGCCCTATA TAAAGATTTT CAGCAAGAGT GCAAACATCA TGCATGCCAA GTGGCAACGC  
CTGGCCATGG AGGGCAGCAC CTGTCTGGAT GTGTTTGAGC ACATCAGCCT TATGACCCTG  
GACAGTCTGC AGAAATGCAT CTTTCAGCTTT GACAGCAATT GTCAGGAGAA GCCCAGTGAA  
TATATTACTG CGATCATGGA GCTCAGTGCC CTTGTAGTGA AACGGAATAA CCAGTTCTTC  
CGGTACAAGG ACTTCCTGTA CTTCTCACT CCCTGTGGAC GGCGCTTCCA CAGGGCCTGC  
AGACTGGTGC ACGACTTCAC AGATGCCGTC ATCCAGGAGC GGCGCCGCAC CCTCACTAGC  
CAGGGTGTG ATGACTTCCT CCAAGCCAAG GCCAAGTCCA AGACTTTGGA CTTTATTGAT  
GTGCTCCTGC TGAGCGAGGA TAAAAATGGT AAAGAGTTGT CAGATGAGGA CATAAGAGCA  
GAAGCTGACA CTTTCATGTT TGGAGGCCAT GACACCACGG CCAGTGGCCT CTCCTGGGTC  
TTGTACAACC TCGCGAGGCA CCCAGAATAC CAAGAACGCT GCCGGCAGGA GGTGCAAGAG  
CTTCTGAAGG ACCGTGAGCC TAAAGAGATT GAATGGGACG ACCTGGCCCA GTTGCCCTTC  
CTGACCATGT GCCTGAAGGA GAGCCTGCGG TTGCATCCCC CAATCCCTAC ATTCGCCCGC  
GGCTGCACCC AGGACGTGGT GCTCCCAGAC AGCCGAGTCA TCCCCAAGG GAATGTCTGT  
AACATCAACA TCTTCGCAAT CCATCACAAC CCCTCAGTCT GGCCAGACCC TGAGGTCTAT  
GACCCCTTCC GCTTCGACCC AGAAAACGCC CAGAAGAGGT CACCTATGGC TTTTATTCT  
TTCTCGGCGG GGCCCAGGAA CTGCATCGGG CAGAAGTTCG CGATGGCAGA GATGAAGGTG  
GTCCTGGCGC TCACGCTGCT GCGCTCCGC ATCCTGCCCG ACCACAGGGA GCCACGCAGG  
ACGCCGAGGA TTGTTTTGCG TGCGGAGGAC GGACTTTGGC TGCGAGTAGA ACCCCTGGGC  
TGA

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Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

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Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

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Sequencing Primer: 

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

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Grade: End-sequenced

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Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

## Target Details

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Gene: CYP4F8

Alternative Name: CYP4F8 ([CYP4F8 Products](#))

Background: This gene, CYP4F8, 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 and functions as a 19-hydroxylase of prostaglandins in seminal vesicles. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F3, is approximately 18 kb away. [provided by RefSeq, Jul 2008].

Gene ID: 11283

NCBI Accession: [NM\\_007253](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)