

Datasheet for ABIN4930777

Human CYP4Z1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	CYP4Z1
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 CYP4Z1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1518 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAGCCCT CCTGGCTTCA GGAACATCATG GCTCACCCCT TCTTGCTGCT GATCCTCCTC TGCATGTCTC TGCTGCTGTT TCAGGTAATC AGGTTGTACC AGAGGAGGAG ATGGATGATC AGAGCCCTGC ACCTGTTTCC TGCACCCCT GCCCACTGGT TCTATGGCCA CAAGGAGTTT TACCCAGTAA AGGAGTTTGA GGTGTATCAT AAGCTGATGG AAAAATACCC ATGTGCTGTT CCCTTGTGGG TTGGACCCTT TACGATGTTC TTCAGTGTCC ATGACCCAGA CTATGCCAAG

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Product Details

ATTCTCCTGA AAAGACAAGA TCCCAAAAGT GCTGTTAGCC ACAAATCCT TGAATCCTGG
GTTGGTTCGAG GACTTGTGAC CCTGGATGGT TCTAAATGGA AAAAGCACCG CCAGATTGTG
AAACCTGGCT TCAACATCAG CATTCTGAAA ATATTCATCA CCATGATGTC TGAGAGTGTT
CGGATGATGC TGAACAAATG GGAGGAACAC ATTGCCAAA ACTCACGTCT GGAGCTCTTT
CAACATGTCT CCCTGATGAC CCTGGACAGC ATCATGAAGT GTGCCTTCAG CCACCAGGGC
AGCATCCAGT TGGACAGTAC CCTGGACTCA TACCTGAAAG CAGTGTTCAA CCTTAGCAAA
ATCTCCAACC AGCGCATGAA CAATTTTCTA CATCACAACG ACCTGGTTTT CAAATTCAGC
TCTCAAGGCC AAATCTTTTC TAAATTTAAC CAAGAACTTC ATCAGTTCAC AGAGAAAGTA
ATCCAGGACC GGAAGGAGTC TCTTAAGGAT AAGCTAAAAC AAGATACTAC TCAGAAAAGG
CGCTGGGATT TTCTGGACAT ACTTTTGTGAGT GCCAAAAGCG AAAACACCAA AGATTTCTCT
GAAGCAGATC TCCAGGCTGA AGTGAAAACG TTCATGTTTG CAGGACATGA CACCACATCC
AGTGCTATCT CCTGGATCCT TTAAGTCTTG GCAAAGTACC CTGAGCATCA GCAGAGATGC
CGAGATGAAA TCAGGGAACT CCTAGGGGAT GGGTCTTCTA TTACCTGGGA ACACCTGAGC
CAGATGCCTT ACACCACGAT GTGCATCAAG GAATGCCTCC GCCTCTACGC ACCGGTAGTA
AACATATCCC GGTTACTCGA CAAACCCATC ACCTTTCCAG ATGGACGCTC CTTACCTGCA
GGAATAACTG TGTTTATCAA TATTTGGGCT CTTACCACA ACCCCTATTT CTGGGAAGAC
CCTCAGGTCT TTAACCCCTT GAGATTCTCC AGGGAAAATT CTGAAAAAAT ACATCCCTAT
GCCTTCATAC CATTCTCAGC TGGATTAAGG AACTGCATTG GGCAGCATTT TGCCATAATT
GAGTGTAAG TGGCAGTGGC ATTAAGTCTG CTCCGCTTCA AGCTGGCTCC AGACCACTCA
AGGCCTCCCC AGCCTGTTTCG TCAAGTTGTC CTCAAGTCCA AGAATGGAAT CCATGTGTTT
GCAAAAAAAG TTTGCTAA

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

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.

Sequencing Primer:

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

Grade: End-sequenced

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

Target Details

Gene: CYP4Z1

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Target Details

Alternative Name: CYP4Z1 ([CYP4Z1 Products](#))

Background: 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 1p33. [provided by RefSeq, Jul 2008].

Gene ID: 199974

NCBI Accession: [NM_178134](#)

Application Details

Restrictions: For Research Use only

Handling

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

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