

Datasheet for ABIN4940211

Human CYP2A13 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	CYP2A13
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 CYP2A13 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1485 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGCTGGCCT CAGGGCTGCT TCTGGTGACC TTGCTGGCCT GCCTGACTGT GATGGTCTTG ATGTCAGTCT GCGGCAGAG GAAGAGCAGG GGGAAGCTGC CTCCGGGACC CACCCCATTG CCCTTCATTG GAAACTACCT GCAGCTGAAC ACAGAGCAGA TGTAACAATC CCTCATGAAG ATCAGTGAGC GCTATGGCCC TGTGTTCCACC ATCACTTGG GGCCCCGGCG GGTCTGTGGT

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Product Details

CTGTGCGGAC ATGATGCCGT CAAGGAGGCT CTGGTGGACC AGGCTGAGGA GTTCAGCGGG
CGAGGCGAGC AGGCCACCTT CCACTGGCTC TTCAAAGGCT ATGGCGTGGC GTTCAGCAAC
GGGGAGCGCG CCAAGCAGCT CCGGCGCTTC TCCATCGCCA CCCTAAGGGG TTTTGGCGTG
GGCAAGCGCG GCATCGAGGA ACGCATCCAG GAGGAGGCGG GCTTCCTCAT CGACGCCCTC
CGGGGCACGC ACGGCGCCAA TATCGATCCC ACCTTCTTCC TGAGCCGCAC AGTCTCCAAT
GTCATCAGCT CCATTGTCTT TGGGGACCGC TTTGACTATG AGGACAAAGA GTTCCTGTCA
CTGTTGCGCA TGATGCTGGG AAGCTTCCAG TTCACGGCAA CCTCCACGGG GCAGCTCTAT
GAGATGTTCT CTTCGGTGAT GAAACACCTG CCAGGACCAC AGCAACAGGC CTTTAAGGAG
CTGCAAGGGC TGGAGGACTT CATCGCCAAG AAGGTGGAGC ACAACCAGCG CACGCTGGAT
CCCAATTCCC CACGGGACTT CATCGACTCC TTTCTCATCC GCATGCAGGA GGAGGAGAAG
AACCCCAACA CAGAGTTCTA CTTGAAGAAC CTGGTGATGA CCACCCTGAA CCTCTTCTTT
GCGGGCACTG AGACCGTGAG CACCACCCTG CGCTACGGTT TCCTGCTGCT CATGAAGCAC
CCAGAGGTGG AGGCCAAGGT CCATGAGGAG ATTGACAGAG TGATCGGCAA GAACCGGCAG
CCCAAGTTTG AGGACCGGGC CAAGATGCCC TACACAGAGG CAGTGATCCA CGAGATCCAA
AGATTTGGAG ACATGCTCCC CATGGGTTTG GCCCACAGGG TCAACAAGGA CACCAAGTTT
CGGGATTTCT TCCTCCCTAA GGGCACTGAA GTGTTCCCTA TGCTGGGCTC CGTGCTGAGA
GACCCAGGT TCTTCTCAA CCCCCGGGAC TTCAATCCCC AGCACTTCTT GGATAAGAAG
GGCAGTTTA AGAAGAGTGA TGCTTTTGTG CCCTTTTCCA TCGGAAAGCG GACTGTGTTT
GGAGAAGGCC TGGCCAGAAT GGAGCTCTTT CTCTTCTTCA CCACCATCAT GCAGAACTTT
CGCTTCAAGT CCCCTCAGTC GCCTAAGGAT ATCGACGTGT CCCCCAAACA CGTGGGCTTT
GCCACGATCC CACGAAACTA CACCATGAGC TTCCTGCCCC GCTGA

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: CYP2A13

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Target Details

Alternative Name: CYP2A13 ([CYP2A13 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 protein localizes to the endoplasmic reticulum. Although its endogenous substrate has not been determined, it is known to metabolize 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a major nitrosamine specific to tobacco. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008].

Gene ID: 1553

NCBI Accession: [NM_000766](#)

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)