

Datasheet for ABIN4931172

Human COLCA1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	COLCA1
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 COLCA1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	375 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAGTCTT GCTCAGTCGC CCAGGCTGGA GTGCTAACCT CTCCTTTCAT GTGGAGATGG ACAGGGATGG CAGGAGCACT GAGTGCTCTT GACAACACCA TTGAAGATGA TGCTGACGAT CAGCTACCCT GTGGAGAAGG CAGGCCAGGC TGGGTGAGAG GGGAGCTCCT TGGAAGTCAG GGGGTCTGTA AGGACAGCAA GGATCTCTTT GTCCCAACCT CCAGCAGCCT TTATGGGTGC TTCTGTGTTG GCCTTGTTTC TGGGATGGCC ATCTCAGTGC TGTTGCTGGC TAGCGATTTTC

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Product Details

AGAAACTAG ATTTTCTAG GCCTGAGCCC TGTTTGGAGA AAGAAGCTTC CCTCTGGTTT
GTAGCTCAAC ATTAA

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: COLCA1

Alternative Name: COLCA1

Background: This gene encodes a transmembrane protein that localizes to granular structures, including crystalloid eosinophilic granules and other granular organelles. This gene, along with an overlapping opposite strand gene, has been implicated as a susceptibility locus for colorectal cancer. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2014].

Gene ID: 399948

NCBI Accession: [NM_207429](#)

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.

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Handling

- 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)