

Datasheet for ABIN4931469

Human CGB2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	CGB2
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 CGB2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	492 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	<p>ATGTCAAAGG GGCTGCTGCT GTTGCTGCTG CTGAGCATGG GCGGGACATG GGCATCCAAG GAGCCGCTTC GGCCACGGTG CCGCCCCATC AATGCCACCC TGGCTGTGGA GAAGGAGGGC TGCCCCGTGT GCATCACCGT CAACACCACC ATCTGTGCCG GCTACTGCCC CACCATGACC CGCGTGCTGC AGGGGGTCCT GCCGGCCCTG CCTCAGGTGG TGTGCAACTA CCGCGATGTG CGCTTCGAGT CCATCCGGCT CCCTGGCTGC CCGCGCGGCG TGAACCCCGT GGTCTCCTAC</p>

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Product Details

GCCGTGGCTC TCAGCTGTCA ATGTGCACTC TGCCGCCGCA GCACCACTGA CTGCGGGGGT
CCCAAGGACC ACCCCTTGAC CTGTGATGAC CCCCCTTCC AGGCCTCCTC TTCCTCAAAG
GCCCCTCCCC CCAGCCTTCC AAGCCCATCC CGACTCCCGG GGCCCTCAGA CACCCCGATC
CTCCCACAAT AA

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: CGB2

Alternative Name: CGB2 ([CGB2 Products](#))

Background: The beta subunit of chorionic gonadotropin (CGB) is encoded by six highly homologous and structurally similar genes that are arranged in tandem and inverted pairs on chromosome 19q13.3, and contiguous with the luteinizing hormone beta (LHB) subunit gene. The CGB genes are primarily distinguished by differences in the 5' untranslated region. This gene was originally thought to be one of the two pseudogenes (CGB1 and CGB2) of CGB subunit, however, detection of CGB1 and CGB2 transcripts in vivo, and their presence on the polysomes, suggested that these transcripts are translated. To date, a protein product corresponding to CGB2 has not been isolated. The deduced sequence of the hypothetical protein of 132 aa does not share any similarity with that of functional CGB subunits (PMID:8954017). However, a 163 aa protein, translated from a different frame, is about the same size, and shares 98 % identity with other CGB subunits. [provided by RefSeq, Jul 2008].

Gene ID: 114336

NCBI Accession: [NM_033378](#)

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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)