

Datasheet for ABIN4928955

Human GYG2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	Glycogenin 2 (GYG2)
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 GYG2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	735 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAACACG GCAGCTTTGA CGGGGCAGAC CAAGGCTTAC TGAATAGTTT CTTCAGGAAC TGGTCGACCA CAGACATCCA CAAGCACCTG CCGTTCATCT ATAAGTTGAG TAGTAACACG ATGTACACTT ACAGCCCTGC CTTCAAGCAA TTCGGTTCCA GTGCAAAGGT CGTCCACTTT TTGGGGTCCA TGAAACCTTG GAACTACAAG TACAATCCAC AGAGTGGCTC GGTGTTGGAG CAAGGCTCAG CGTCCAGCAG CCAGCACCAG GCGGCATTCC TTCATCTCTG GTGGACGGTC

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Product Details

TACCAGAACA ACGTGCTGCC CCTTTATAAA AGCGTCCAAG CGGGGGAAGC ACGCGCGTCT
CCTGGTCACA CACTTTGCCA CAGTGATGTG GGGGGGCCGT GTGCGGATTC AGCCTCTGGT
GTTGGAGAGC CGTGTGAAAA TTCAACACCC AGTGCGGGCG TGCCGTGTGC AAATTCACCA
CTGGGTTCTA ACCAGCCTGC TCAGGGCCTT CCGGAGCCGA CCCAGATAGT GGATGAGACC
CTGTCCCTAC CTGAAGGACG CCGTTCAGAA GATGTCGACC TGGCCGTCTC TGTTTCCCAG
ATCTCCATCG AAGAGAAGGT GAAGGAATTG AGCCCCGAGG AAGAGAGGAG GAAGTGGGAG
GAAGGCCGTA TCGACTACAT GGGGAAGGAC GCGTTTGCTC GCATCCAGGA GAAGCTGGAC
CGGTTCTCTGC AGTAA

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: Glycogenin 2 (GYG2)

Alternative Name: [GYG2 \(GYG2 Products\)](#)

Background: This gene encodes a member of the the glycogenin family. Glycogenin is a self-glucosylating protein involved in the initiation reactions of glycogen biosynthesis. A gene on chromosome 3 encodes the muscle glycogenin and this X-linked gene encodes the glycogenin mainly present in liver, both are involved in blood glucose homeostasis. This gene has a short version on chromosome Y, which is 3' truncated and can not make a functional protein. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, May 2010].

Gene ID: 8908

NCBI Accession: [NM_001184704](#)

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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)