

GCA cDNA

Catalog Number: ATGD0225

PRODUCT INFORMATION

Catalog number

ATGD0225

Product type

cDNA

Species

Human

NCBI Accession No.

NP_036330.1

Alternative Names

GCL

mRNA Refseq

NM_012198.3

OMIM

607030

Chromosome location

2q24.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

654bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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GCA product, grancalcin, is a calcium-binding protein abundant in neutrophils and macrophages. It belongs to the penta-EF-hand subfamily of proteins which includes sorcin, calpain, and ALG-2. Grancalcin localization is dependent upon calcium and magnesium. In the absence of divalent cation, grancalcin localizes to the cytosolic fraction; with magnesium alone, it partitions with the granule fraction; and in the presence of magnesium and calcium, it associates with both the granule and membrane fractions, suggesting a role for grancalcin in granule-membrane fusion and degranulation.

DATA

Sequence nucleotides

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ATGGCCTACCCGGGATACGGAGGAGGGTTTGGAAATTTTAGCATTTCAGGTGCCAGGAATGCAGATGGGACAGCCAGTGCC
AGAAACAGGCCAGCTATACTCCTCGATGGATACTCTGGGCCAGCATATTCAGACACTTATTCCTCAGCTGGTGACTCCGTG
TATACTTACTTCAGTGCTGTTGCTGGACAGGATGGTGAAGTGGATGCTGAAGAACTTCAGAGATGTTTGACACAGTCTGGAA
TTAATGGAACCTTACTCTCCCTTCAGTTTGGAAACCTGCAGAATTATGATTGCCATGTTGGATAGAGATCACACAGGAAAAATG
GGATTTAATGCATTCAAAGAGCTATGGGCAGCTCTTAATGCCTGGAAGGAAAACCTCATGACTGTTGATCAAGATGGAAGTG
GCACAGTAGAACATCATGAGTTGCGTCAAGCCATTGGTCTTATGGGTTATAGGTTGAGTCCTCAAACATTA ACTACTATTGTT
AAACGTTATAGCAAGAATGGCAGAATTTTCTTTGATGATTATGTTGCTTGTGTGAAGCTTCGAGCATTGACAGATTTCTT
TAGGAAAAGAGACCACTTGAACAAGGGTCTGCGAATTTTCATATATGACGATTTTTTGCAGGGCACTATGGCAATTTGA
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Transaction Sequence

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MAYPGYGGGF GNFSIQVPGM QMGQVPETG PAILLDGYSG PAYSPTYSSA GDSVYTYFSA VAGQDGEVDA EELQRCLTQS
GINGTYPFS LETCRIMIAM LDRDHTGKMG FNAFKELWAA LNAWKENFMT VDQDGS GTVE HHEL RQAIGL MGYRLSPQTL
TTIVKRYSKN GRIFFDDYVA CCVKLRALTD FFRKRDHLQQ GSAFIYDDF LQGTMAI
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