

ICA1 cDNA

Catalog Number: ATGD0307

PRODUCT INFORMATION

Catalog number

ATGD0307

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001129492.1

Alternative Names

ICA69, ICAp69

mRNA Refseq

NM_001136020.2

OMIM

147625

Chromosome location

7p22

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1452bp

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

ICA1 cDNA

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ICA1 encodes a protein with an arfaptin homology domain that is found both in the cytosol and as membrane-bound form on the Golgi complex and immature secretory granules. ICA1 is believed to be an autoantigen in insulin-dependent diabetes mellitus and primary Sjogren's syndrome. Several transcript variants encoding two different isoforms have been found for ICA1.

DATA

Sequence nucleotides

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ATGTCAGGACACAAATGCAGTTATCCCTGGGACTTACAGGATCGATATGCTCAAGATAAGTCAGTTGTAATAAGATGCAAC
AGAAATATTGGGAGACGAAGCAGGCCTTTATTAAGCCACAGGGAAGAAGGAAGATGAACATGTTGTTGCCTCTGACGCGG
ACCTGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACCTGTCTGGACTTATCGAAAGCAATTGTACTIONTATCAAAAAG
AGGATATGTTTCTTGTCTCAAGAAGAAAACGAACTGGGAAAATTTCTTCGATCCCAAGGTTTCCAAGATAAAAACCAGAGCAG
GAAAGATGATGCAAGCGACAGGAAAGGCCCTCTGCTTTTCTTCCCAGCAAAGGTTGGCCTTACGAAATCCTTTGTGTGCGATT
TCACCAAGAAGTGGAGACTTTTCGGCATCGGGCCATCTCAGATACTTGGCTGACGGTGAACCGCATGGAACAGTGCAGGAC
GGAATATAGAGGAGCACTATTATGGATGAAGGACGTGTCTCAGGAGCTTGATCCAGACCTCTACAAGCAAATGGAGAAGTT
CAGGAAGGTACAAACACAAGTGCGCCTTGCAAAAAAAAAAATTTGACAAATTGAAGATGGATGTTTGTCAAAAAGTGGATCTT
CTTGGAGCGAGCAGATGCAATCTTGTCTCACATGCTAGCAACATAACCAGACCACTCTGCTTCATTTTTGGGAGAAAATTT
CTCACACTATGGCAGCCATCCATGAGAGTTTCAAAGGTTATCAACCATATGAATTTACTACTTTAAAGAGCTTACAAGACCCT
ATGAAAAAATTAGTTGAGAAAGAAGAGAAGAAGAAAATCAACCAGCAGGAAAGTACAGATGCAGCCGTGCAGGAGCCGAG
CCAATTAATTTATTAGAGGAAGAAAACCAGCGCAAGGAATCCTCTAGTTTTAAGACTGAAGATGGAAAAAGTATTTTATCTG
CCTTAGACAAAGGCTCTACACATACTGCATGCTCAGGACCCATAGATGAACTATTAGACATGAAATCTGAGGAAGGTGCTTG
CCTGGGACCAGTGGCAGGGACCCCGAACCTGAAGGTGCTGACAAAGATGACCTGCTGCTGTTGAGTGAGATCTTCAATG
CTTCCTCCTTGGAAGAGGGCGAGTTCAGCAAAGAGTGGGCGCTGTGTTTGGAGACGGCCAAGTGAAGGAGCCAGTGCCC
ACTATGGCCCTGGGAGAGCCAGACCCCAAGGCCAGACAGGCTCAGGTTTCTTCCTTCGTCAGCTTTTAGACCAAAAATATG
AAAGACTTACAGGCCTCGCTACAAGAACCTGCTAAGGCTGCCTCAGACCTGACTGCCTGGTTCAGCCTCTTCGCTGACCTCG
ACCACTCTCAAATCCTGATGCTGTTGGGAAAACCGATAAAGAACACGAATTGCTCAATGCATGA
    
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Transaction Sequence

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MSGHKCSYPW DLQDRYAQDK SVVNKMQQKY WETKQAFIKA TGKKEDEHV ASDADLDAKLELFHSIQRTC LDLSKAIVLY
QKRICFLSQE ENELGKFLRS QGFQDKTRAG KMMQATGKALCFSSQORLAL RNPLCRFHQE VETFRHRAIS DTWLTVNRME
QCRTEYRGAL LWMKDVSQELDPDLYKQMEK FRKVQTQVRL AKKNFDKLM DVCQKVDLLG ASRCNLLSHM
LATYQTTLLHFWEKTSHTMA AIHESFKGYQ PYEFTTLKSL QDPMKKLVEK EEKKKINQQE STDAAVQEPSQLISLEENQ
RKESSSFKTE DGKSILSALD KGSTHTACSG PIDELLDKMS EEGACLGPVAGTPEPEGADK DDLLELSEIF NASSLEEGER
SKEWAAVFGD GQVKEPVPTM ALGEPDPKAQTGSGFLPSQL LDQNMKDLQA SLQEPAKAAS DLTAWFSLFA DLDPLSNPDA
VGKTDKEHELLNA
    
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