

IMPACT cDNA

Catalog Number: ATGD0452

PRODUCT INFORMATION

Catalog number

ATGD0452

Product type

cDNA

Species

Human

NCBI Accession No.

NP_060909.1

Alternative Names

RWDD5

mRNA Refseq

NM_018439.3

OMIM

615319

Chromosome location

18q11.2-q12.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

963bp

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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IMPACT belongs to the IMPACT family and contains 1 RWD domain. It is translational regulator that ensures constant high levels of translation under amino acid starvation and acts by interacting with GCN1/GCN1L1, thereby preventing activation of GCN2 protein kinases (EIF2AK1 to 4) and subsequent down-regulation of protein synthesis.

DATA

Sequence nucleotides

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ATGGCTGAGGGGGACGCAGGGAGCGACCAGAGGCAGAATGAGGAAATTGAAGCAATGGCAGCCATTTATGGCGAGGAGT
GGTGTGTCATTGATGACTGTGCCAAAATATTTTTGTATTAGAATTAGCGACGATATAGATGACCCCAAATGGACACTTTGCTTG
CAGGTGATGCTGCCGAATGAATACCCAGGTACAGCTCCACCTATCTACCAGTTGAATGCTCCTTGGCTTAAAGGGCAAGAAC
GTGCGGATTTATCAAATAGCCTTGAGGAAATATATATTCAGAATATCGGTGAAAGTATTCTTTACCTGTGGGTGGAGAAAATA
AGAGATGTTCTTATACAAAAATCTCAGATGACAGAACCAGGCCAGATGTAAAGAAGAAAAGTGAAGAGGAAGATGTTGAAT
GTGAAGATGATCTCATTTTAGCATGTCAGCCGAAAGTTCGGTTAAAGCATTGGATTTTGATATCAGTGAAACTCGGACAGA
AGTAGAAGTAGAAGAATTACCTCCGATTGATCATGGCATTCTATTACAGACCGAAGAAGTACTTTTTCAGGCACACTTGGCT
CCAGTGGTTTGTCCCAAACAGGTGAAAATGGTTCTTTCCAAATTGTATGAGAATAAGAAAATAGCTAGTGCCACCCACAACA
TCTATGCCTACAGAATATATTGTGAGGATAAACAGACCTTCTTACAGGATTGTGAGGATGATGGGGAAACAGCAGCTGGTG
GGCGTCTTCTTCATCTCATGGAGATTTTGAATGTGAAGAATGTCATGGTGGTAGTATCACGCTGGTATGGAGGGATTCTGCT
AGGACCAGATCGCTTTAAACATATCAACAACGTGCCAGAAACATACTAGTGGAAGAAGTACACAAAATTCACCTGAGGAG
TCATCTAAGGCTTTGGGAAAGAACAAGTAAGAAAAGACAAGAAGAGGAATGAACATTA
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Transaction Sequence

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MAEGDAGSDQ RQNEEIEAMA AIYGEWCVI DDCAKIFCIR ISDDIDDPKW TLCLQVMLPN EYPGTAPPIY QLNAPWLKGQ
ERADLSNSLE EIIQNIGES ILYLWVEKIR DVLIQKSQMT EPGPDVKKKT EEEDVECEDD LILACQPESS VKALDFDISE
TRTEVEVEEL PPIDHGIPIT DRRSTFQHL APVVCVKQVK MVLSKLYENK KIASATHNIY AYRIYCEDKQ TFLQDCEDDG
ETAAGRLLH LMEILNVKNV MVVVSRWYGG ILLGPDRFKH INNCARNILV EKNYTNSTPEE SSKALGKNKK VRKDKKRNEH
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