

GLRX3 cDNA

Catalog Number: ATGD0009

PRODUCT INFORMATION

Catalog number

ATGD0009

Product type

cDNA

Species

Human

NCBI Accession No.

NP_006532.2

Alternative Names

Glutaredoxin-3, GRX3, PKC-interacting cousin of thioredoxin, PKC-theta-interacting protein, PKCq-interacting protein, Thioredoxin-like protein 2, Glutaredoxin 4, GLRX4, GRX4, PICOT, TXNL2, HUSSY-22, bA500G10.4

mRNA Refseq

NM_006541.4

OMIM

612754

Chromosome location

10q26

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1008bp

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 inserted 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)

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General Description

Glutaredoxin (GRX), also known as thioltransferase, is member of the thiol-disulfide oxidoreductase family. Glutaredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups through a monothiol mechanism. Glutaredoxin-3 (Grx3/PICOT) is an essential protein involved in the regulation of signal transduction, for instance during immune cell activation and development of cardiac hypertrophy, presumably in response to redox signals. And it has been shown to interact with PRKCQ

DATA

Sequence nucleotides

ATGGCGGCGG GGGCGGCTGA GGCAGCTGTA GCGGCCGTGG AGGAGGTCGG CTCAGCCGGG CAGTTTGAGG
AGCTGCTGCG CCTCAAAGCC AAGTCCCTCC TTGTGGTCCA TTTCTGGGCA CCATGGGCTC CACAGTGTGC
ACAGATGAAC GAAGTTATGG CAGAGTTAGC TAAAGAACTC CCTCAAGTTT CATTGTGAA GTTGGAAAGCT
GAAGGTGTTCTGAAGTATG TGAAAAATAT GAAATTAGCT CTGTTCCCAC TTTCTGTTT TTCAAGAATT CTCAGAAAAT
CGACCGATTAGATGGTGCAC ATGCCCCAGA GTTGACCAAA AAAGTTTCAGC GACATGCATC TAGTGGCTCC
TTCCTACCCA GCGCTAACATGA ACATCTAAA GAAGATCTCA ACCTTCGCTT GAAGAAATTG ACTCATGCTG
CCCCCTGCAT GCTGTTTATG AAAGGAACCTC CTCAAGAACCC ACGCTGTGGT TTCAGCAAGC AGATGGTGGAA
AATTCTTCAC AAACATAATA TTCAGTTAG CAGTTTGAT ATCTTCTCAG ATGAAGAGGT TCGACAGGGAA
CTCAAAGCCT ATTCCAGTTG GCCTACCTAT CCTCAGCTCT ATGTTTCTGG AGAGCTCATA GGAGGACTTG
ATATAATTAA GGAGCTAGAA GCATCTGAAG AACTAGATAC AATTGTCCC AAAGCTCCA AATTAGAGGA
AAGGCTCAAAGTGCTGACAA ATAAAGCTTC TGTGATGCTC TTTATGAAAG GAAACAAACA GGAAGCAAAA
TGTGGATTCA GCAAACAAAT TCTGGAAATA CAAATAGTA CTGGTGTGAA ATATGAAACA TTCGATATAT
TGGAGGATGA AGAAGTTCGG CAAGGATTAA AAGCTTACTC AAATTGGCCA ACATACCCTC AGCTGTATGT
GAAAGGGGAG CTGGTGGGAG GATTGGATAT TGTGAAGGAA CTGAAAGAAA ATGGTGAATT GCTGCCTATA
CTGAGAGGAG AAAATTAA

Transaction Sequence

MAAGAAEAAV AAVEEVGSAG QFEELLRLKA KSLLVVHFWA PWAPQCAQMNV EVAELAKEL PQVSFVKLEA EGVPEVSEKY
EISSVPTFLF FKNSQKIDRL DGAHAPELT K VQRHASSGS FLPSANEHLK EDLNRLKKL THAAPCMLFM KGTPQEPRCG
FSKQMVEILKH NIQFSSFD IFSDEEVROQG LKAYSSWPTY PQLYVSGELI GGLDIKELE ASEELDTICP KAPKLEERLK
VLTNKASVML FMKGKQKEAK CGFSKQILEI LNSTGVEYET FDILEDEEVQ QGLKAYSNWP TYPQLYVKGE LVGGDIVKE
LKENGELLPI LRGEN