

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 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)

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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

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ATGGCGGCGG GGGCGGCTGA GGCAGCTGTA GCGGCCGTGG AGGAGGTCGG CTCAGCCGGG CAGTTTGAGG
AGCTGCTGCG CCTCAAAGCC AAGTCCCTCC TTGTGGTCCA TTTCTGGGCA CCATGGGCTC CACAGTGTGC
ACAGATGAAC GAAGTTATGG CAGAGTTAGC TAAAGAACTC CCTCAAGTTT CATTGTGAA GTTGGAAGCT
GAAGGTGTTT CTGAAGTATC TGAAAAATAT GAAATTAGCT CTGTTCCAC TTTTCTGTTT TTCAAGAATT CTCAGAAAAT
CGACCGATTA GATGGTGCAC ATGCCCCAGA GTTGACCAAA AAAGTTCAGC GACATGCATC TAGTGGCTCC
TTCCTACCCA GCGCTAATGA ACATCTTAAA GAAGATCTCA ACCTTCGCTT GAAGAAATTG ACTCATGCTG
CCCCCTGCAT GCTGTTTATG AAAGGAACTC CTCAAGAACC ACGCTGTGGT TTCAGCAAGC AGATGGTGGA
AATTCTTCAC AACATAATA TTCAGTTTAG CAGTTTTGAT ATCTTCTCAG ATGAAGAGGT TCGACAGGGA
CTCAAAGCCT ATTCCAGTTG GCCTACCTAT CTCAGCTCT ATGTTTCTGG AGAGCTCATA GGAGGACTTG
ATATAATTAA GGAGCTAGAA GCATCTGAAG AACTAGATAC AATTTGTCCC AAAGCTCCCA AATTAGAGGA
AAGGCTCAAA GTGCTGACAA ATAAAGCTTC TGTGATGCTC TTTATGAAAG GAAACAAACA GGAAGCAAAA
TGTGGATTCA GCAAACAAAT TCTGGAAATA CTAAATAGTA CTGGTGTTGA ATATGAAACA TTCGATATAT
TGGAGGATGA AGAAGTTCGG CAAGGATTAA AAGCTTACTC AAATTGGCCA ACATACCCTC AGCTGTATGT
GAAAGGGGAG CTGGTGGGAG GATTGGATAT TGTGAAGGAA CTGAAAGAAA ATGGTGAATT GCTGCCTATA
CTGAGAGGAG AAAATTAA
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Transaction Sequence

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MAAGAAEAAV AAVEEVGSAG QFEELLRLKA KSLLVHFWA PWAPQCAQMN EVMAELAKEL PQVSFVKLEA EGVPEVSEKY
EISSVPTFLF FKNSQKIDRL DGAHAPELTK KVQRHASSGS FLPSANEHLK EDLNLRLKKL THAAPCMLFM KGTPQEPRCG
FSKQMVEILH KHNIQFSSFD IFSDEEVRQG LKAYSSWPTY PQLYVSGELI GGLDIIKELE ASEELDTICP KAPKLEERLK
VLTNKASVML FMKGNKQEAQ CGFSKQILEI LNSTGVEYET FDILEDEEVR QGLKAYSNWP TYPQLYVKGE LVGGLDIVKE
LKENGELLPI LRGEN
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