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# 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. Glutraredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups though 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 CATTTGTGAA GTTGGAAGCT
GAAGGTGTTC CTGAAGTATC TGAAAAATAT GAAATTAGCT CTGTTCCCAC 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 AAACATAATA TTCAGTTTAG CAGTTTTGAT ATCTTCTCAG ATGAAGAGGT TCGACAGGGA
CTCAAAGCCT ATTCCAGTTG GCCTACCTAT CCTCAGCTCT 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

### Transaction Sequence

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