

Product datasheet for **SC114293**

Glutaredoxin 5 (GLRX5) (NM_016417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutaredoxin 5 (GLRX5) (NM_016417) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glutaredoxin 5
Synonyms:	C14orf87; FLB4739; GRX5; PR01238; PRO1238; PRSA; SIDBA3; SPAHGC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016417, the custom clone sequence may differ by one or more nucleotides

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ATGAGCGGGTCCCTCGGCCGAGCTGCGGCGGCTCTGCTCCGCTGGGGGCGCGGCGGGCGGGCGGTGGCC
TTTGGGGTCCGGGCGTGCGGGCGGCGGGCTCGGGCGGGGCGGGCGGGCTCGGGCGGAGCAGTTGGACGC
GCTGGTGAAGAAGGACAAGGTGGTGGTCTTCTCAAGGGGACGCCGAGCAGCCCCAGTGC GGCTTCAGC
AACGCCGTGGTGCAGATCCTGCGGCTGCACGGCGTCCGCGATTACGCGGCTACAACGTGCTGGACGACC
CGGAGCTCCGACAAGGCATTAAGACTATTCCAAGTGGCCACCATCCCGCAAGTGTACCTCAATGGCGA
GTTTGTAGGGGGCTGTGACATTCTCTGCAGATGCACCAGAATGGGGACTTGGTGAAGAAGTAAAAAG
CTGGGGATCCACTCCGCCCTTTAGATGAAAAGAAAGACCAAGACTCCAAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016417 unedited
 TGTAATACGACTCATCTATAGGGCGGCCGGAATTCGCACGAGGGCCGTCGTGGGCTCCG
 GCTTGCGTGC GGAGATGAGCGGGTCCCTCGGCCGAGCTGCGGGCGCTCTGCTCCGCTGGG
 GCGCGGGCGGGCGGGCGGGTGGCCTTTGGGGTCCGGGCGTGCGGGCGGGCGGGCTCGGGCG
 CGGGCGGGCGGGCTCGGGGAGCAGTTGGACGCGCTGGTGAAGAAGGACAAGGTGGTGG
 TCTTCTCAAGGGGACGCCGGAGCAGCCCCAGTCCGGCTTACGCAACGCCGTGGTGCAGA
 TCCGACAAGGCATTAAAGACTATTCCAACCTGGCCACCATCCCGCAAGTGTACCTCAATG
 GCGAGTTTGTAGGGGGCTGTGACATTCTTCTGCAGATGCACCAGAATGGGGACTTGGTGG
 AAGAACTGAAAAAGCTGGGGATCCACTCCGCCCTTTTAGATGAAAAAGAAAGACCAAGACT
 CCAAGTGAGGGCGGCCAAGTCCCTCGCTGAGCAGAGAGGGAGCCGTTTATGTCAGAGACTC
 ACTGCCAGAAAAGCCTTACCCATTTTGGTTTTCACTATTGAGACCGCAACTGCCTGCACT
 GATCATTTTGGTTCGTGACCAGNTGGTATTTTAGTTGGTCTGGTGTTCGGGCTACCATA
 TTNTATTGTGGACCTATTACAACCACTGCACTGTAAGATTTCATTGCTGGATAATGATAT
 TGGTGTAAACAAAATTCATTTTAAATTTGGCACCTAATCCTTGCCCTGATCAAAAAGTTAA
 AAGGGACCTTTGGAATCATAATTCATGAACCCCTTTGGCAATGGGCAATTTTCAAAAAAAA
 GTTCTTCCCCAAAAANAAAAAATAATCACTTTAAATTGCCGCCCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016417 unedited
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGGGGGAGATACTCTCT
 TTGGAGACTGACACATTTGCAGAGGGGTCATGAATAATGATTCCAAGCTCCTATTTAAC
 TTCTGAATCAGGCAAAGAATAAGTGACAATATAAGAATGAATTTTGTACAGCAATATC
 ATAATACAGCATTGAATCATTACAGTGCAGTGGTGTGAATTAAGTCCACAATAAAATATT
 CTTAGCCCGAACACCAGACCAACTAAAAACCAACTGCTCACGAACCAAAATGATCAGT
 GCAAGCAGTTGCGGTCTCAATAGTGAACCAAAATGGGTAAAGGCTTTTCTGGCAGTGAG
 TCTCTGACATGAACGGCTCCCTCTGCTCAGCGAGGACTTGGCCGCCCTCACTTGGAGT
 CTTGGTCTTTCTTTTCTAAAAGGGCGGAGTGGATCCCCAGCTTTTTCAGTTCTTCCA
 CCAAGTCCCCATTCTGGTGCATCTGCAGAAGAATGTCACAGCCCCCTACAACTCGCCAT
 TGAGGTACACTTGCGGGATGGTGGGCCACTTGAATAGCCTTTAATGCCTTGTCCGAGCT
 CCGGGGCCGCCACCACCTTGGATGGCCCCCTAAACCCGGGACCCCGTGCACCCGCAGGA
 TCTGCACCCCGGGTTTTCTGGAAGCCGGACTGGGGTTGCCTCCGGGGCCCTTGGAGG
 AAAACACCACCCTTGGTCTTTTTCCCCCCCCCTTCCCATGGGTCCCCCGATCCGCCGCG
 CCTGTGGCCAAAACCCCGTCCACCTCCGACCCACAGCCCCGGCCCGCTGCCTGTT
 CCCCCACGGCAAAAACCCCCACATCCCCCAAGGAACCTCTCCTCCATCCAACCCGGAT
 CCGCACGGCCTTTTCCAATTTTCCCCTCN

Restriction Sites:

NotI-NotI

ACCN:

NM_016417

Insert Size:

930 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_016417.2 , NP_057501.2
RefSeq Size:	1182 bp
RefSeq ORF:	474 bp
Locus ID:	51218
UniProt ID:	Q86SX6
Cytogenetics:	14q32.13
Gene Summary:	<p>This gene encodes a mitochondrial protein, which is evolutionarily conserved. It is involved in the biogenesis of iron-sulfur clusters, which are required for normal iron homeostasis. Mutations in this gene are associated with autosomal recessive pyridoxine-refractory sideroblastic anemia. [provided by RefSeq, May 2010]</p>