

Product datasheet for **RG213733**

Glutaredoxin 2 (GLRX2) (NM_197962) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Glutaredoxin 2 (GLRX2) (NM_197962) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GLRX2
Synonyms: CGI-133; GRX2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213733 representing NM_197962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTTGGCGCCGCGCGGCTGGCGGGACGCGGCTGGTTGGAGCAGGAGCGGCTCGGCAGGCTGGC
 TTGACAGGGCGCGGGAGCTGCGGGAGCTGCGGCAGCTGCGGCTCTGGGATGGAGAGCAATACATCATC
 ATCTTTGGAGAATTTAGCGACGGCGCCTGTGAACCAGATCCAAGAAACAATTTCTGATAATTGTGTGGT
 ATTTTCTCAAAAACATCCTGTTCTTACTGTACAATGGCAAAAAGCTTTCCATGACATGAATGTTAACT
 ATAAAGTGGTGGAACTGGACCTGCTGAATATGGAAACCAGTTCCAAGATGCTCTTTACAAAATGACTGG
 TGAAGAAGTGTCCAAGAAATTTGTCAATGGTACTTTTATTGGAGGTGCAACTGACACTCATAGGCTT
 CACAAAGAAGGAAAATTGCTCCCACTAGTTCATCAGTGTATTTAAAAAAGTAAAGAGGAAAGAATTTCC
 AG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213733 representing NM_197962
 Red=Cloning site Green=Tags(s)

MIWRRALAGTRLVWSRSGSAGWLDRAAGAAGAAAAAASGMESNTSSSLENLATAPVNQIQETISDNCVV
 IFSKTSYCTMAKKLFHDMNVNYKVVLDLLEYGNQFQDALYKMTGERTVPRIFVNGTFIGGATDTHRL
 HKEGKLLPLVHQCYLKKSKRKEFQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<u>NM_197962.3</u>
RefSeq Size:	751 bp
RefSeq ORF:	495 bp
Locus ID:	51022
UniProt ID:	<u>Q9NS18</u>
Cytogenetics:	1q31.2
Protein Families:	Transcription Factors
Gene Summary:	<p>The protein encoded by this gene is a member of the glutaredoxin family of proteins, which maintain cellular thiol homeostasis. These proteins are thiol-disulfide oxidoreductases that use a glutathione-binding site and one or two active cysteines in their active site. This gene undergoes alternative splicing to produce multiple isoforms, one of which is ubiquitously expressed and localizes to mitochondria, where it functions in mitochondrial redox homeostasis and is important for the protection against and recovery from oxidative stress. Other isoforms, which have more restrictive expression patterns, show cytosolic and nuclear localization, and are thought to function in cellular differentiation and transformation, possibly with a role in tumor progression. [provided by RefSeq, Aug 2011]</p>