

Product datasheet for **SC330157**

Glutaredoxin 1 (GLRX) (NM_001243659) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Glutaredoxin 1 (GLRX) (NM_001243659) Human Untagged Clone
Tag: Tag Free
Symbol: Glutaredoxin 1
Synonyms: GRX; GRX1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330157 representing NM_001243659.
Blue=Insert sequence **Red**=Cloning site **Green**=Tag(s)

```
ATGGCTCAAGAGTTGTGAAGTCCAGAAATCCAGCCTGGGAAGGTGGTTGTGTTTCATCAAGCCCACCTGC
CCGTAAGTGCAGGAGGGCCCAAGAGATCCTCAGTCAATTGCCCATCAAACAAGGGCTTCTGGAATTTGTC
GATATCACAGCCACCAACCACACTAACGAGATTCAAGATTATTTGCAACAGCTCACGGGAGCAAGAACG
GTGCCTCGAGTCTTTATTGGTAAAGATTGTATAGCGGATGCAGTGATCTAGTCTCTTTGCAACAGAGT
GGGGAAGTCTGACGCGGCTAAAGCAGATTGGAGCTCTGCAGTAA
```

Restriction Sites: SgfI-MluI
ACCN: NM_001243659
Insert Size: 321 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:

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_001243659.1](#)



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RefSeq Size: 1090 bp

RefSeq ORF: 321 bp

Locus ID: 2745

UniProt ID: [P35754](#)

Cytogenetics: 5q15

Protein Families: Druggable Genome

MW: 11.8 kDa

Gene Summary: This gene encodes a member of the glutaredoxin family. The encoded protein is a cytoplasmic enzyme catalyzing the reversible reduction of glutathione-protein mixed disulfides. This enzyme highly contributes to the antioxidant defense system. It is crucial for several signalling pathways by controlling the S-glutathionylation status of signalling mediators. It is involved in beta-amyloid toxicity and Alzheimer's disease. Multiple alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Aug 2011]
Transcript Variant: This variant (4) differs in the 3' UTR, compared to variant 1. Variants 1-4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.