

Product datasheet for **SC105918**

Glutaredoxin 1 (GLRX) (BC010965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutaredoxin 1 (GLRX) (BC010965) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glutaredoxin 1
Synonyms:	glutaredoxin (thioltransferase); GRX; GRX1; MGC117407; OTTHUMP00000149979
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC105918 sequence for BC010965 edited (data generated by NextGen Sequencing) ATGGCTCAAGAGTTTGTGAACTGCAAAATCCAGCCTGGGAAGGTGTTGTTCATCAAG CCCACCTGCCCGTACTGCAGGAGGGCCCAAGAGATCCTCAGTCAATTGCCCATCAAACAA GGGCTTCTGGAATTTGTGATATCACAGCCACCAACCACACTAACGAGATTCAAGATTAT TTGCAACAGCTCACGGGAGCAAGAACGGTGCCTCGAGTCTTTATCGGTAAAGATTGTATA GGCGGATGCAGTGATCTAGTCTCTTTGCAACAGAGTGGGGAAGTCTGACGCGGCTAAAG CAGATTGGAGCTCTGCAGTAA Clone variation with respect to BC010965.1 225 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC010965 unedited</p> <pre> ACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCCTCGTGCCGAATTCGGCACGAG GGCAATACCTGCAACTGAGGATTCTTCCCGGGGAGACCGCAGCCCATCGGCATGGCTCAA GAGTTTGTGAAGTCAAAATCCAGCCTGGGAAGGTGGTTGTTCATCAAGCCCACCTGC CCGTAAGTGCAGGAGGGCCCAAGAGATCCTCAGTCAATTGCCATCAAACAAGGGCTTCTG GAATTTGTGATATCACAGCCACCAACCACACTAACGAGATTCAAGATTATTTGCAACAG CTACCGGAGCAAGAACGGTGCCTCGAGTCTTTATCGGTAAGATTGTATAGGCGGATGC AGTGATCTAGTCTTTTGAACAGAGTGGGGAAGTCTGACGCGGCTAAAGCAGATTGGA GCTCTGCAGTAACCACAGATCTCATAGGAAATGTTCAACAATTCTGTGAAAGGTCACAGG ACCCAATTGGAGAAATCATATGAAAAGCATAGTTGGTCTTGGTGTATATGGATCAGAGG CANCAGTGCAGAGGCTGTGGTATGCGGAACACTCTGTTATTTAAGATGGCTATCCAGAT AATCCTGAACACTGTGTATTTATTTTATTTAGACTACCAGCAAAGATTAAAGCATGAAAT GTAACACACTCTGATAAACTTACAGCCCCTACACCAAAGTGTATCTGTGAAAAGCTCCT ACACTTTGAAAATAAGAATCCCTTACATGAAGTGCCTGTTCTANAATTGAAGAATGTA ATTTCCCTCATCTCTAGGACACACTTAATTTCTTTCTATAAAAAACCCCTTTGATGAAA AAAAAAAAAAAACTCTATTTATATGGCGCCGCGTCATAGTTGTTCTGAAAAAACCCGG TTGGGATCCTGTGACCCCTCCCATGCTTTTCTGCCCTGAAATGCCCTC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC010965 unedited</p> <pre> GGCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCATCTATAGGTTTTTT TTATTAATAAAAAAAAAAATTAAGTGTGTCAGTACTAGAGATTGAAGGAAATTAACAATCTTACAA TTCTAGAACAGGCAAACCTCATGATAAGGGATTCTTAAGTTTTCAAAGTGTAGGAGCTCT TTCACAGATACACTCTTGGTGTAGGGGCTGTAAGTTTTATCAGATGTTTTACATTTTCAT GCTTTAATCTTTGCTGGTAGTCTAAATAAAATAAATACACAGTGTTCAGGATTATCTGGA TAGCCATCTTAAATAACAGAGTGTCCGCATGACCACAGCCTCTGCACCTGTGCCTCTGA TCCATATGACACCAAGACCAACTATGCTTTTCATATGATTTCTCCAATGGGTCCTGTGA CCTTTACAGAATTGTTGAACATTTCTATGAGATCTGTGGTACTGCAGAGCTCCAATC TGCTTTAGCCGCGTCAGCAGTCCCCACTCTGTTGCAAAGAGACTAGATCACTGCATCCG CCTATACAATCTTTACCGATAAAGACTCGAGGCACCGTCTTGTCCCGTGAGCTGTTGC AAATAATCTTGAATCTCGTTAGTGTGGTTGGTGGCTGTGATATCGACAAATCCAGAAGC CCTTGTGTTGATGGGCAATTGACTGAGGATCTCTGGGCCCTCCTGCAGTACGGGCAAGTG GGCTTGATGAACACAACCACTTCCCAGGCTGGATTNTGCAAGTTCACAACTCTTGAGCC ATGCCGATGGGCTGCNNGTCTCCCCGGGAAGAATCCTCAGTTGCAGGATTGCCCTCGTG CCGAAATCGCACGAGGCTCGTGCCGAAATCCCAGCCGCCCTATAGTGAGTCGATTACAA AATCTGACGGTACTTAACGAGCCTGCTTATTAGACCTCA </pre>
Restriction Sites:	NotI-NotI
ACCN:	BC010965
Insert Size:	850 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: [BC010965.1](#), [AAH10965.1](#)

RefSeq Size: 836 bp

RefSeq ORF: 321 bp

Locus ID: 2745

Cytogenetics: 5q15

Domains: glutaredoxin

Protein Families: Druggable Genome

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]