

Product datasheet for **SC207968**

Glutathione Reductase (GSR) (NM_000637) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Glutathione Reductase (GSR) (NM_000637) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	GSR
Synonyms:	GR; GSRD; HEL-75; HEL-S-122m
ACCN:	NM_000637
Insert Size:	1484 bp



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Insert Sequence: >SC207968 3'UTR clone of NM_000637
 The sequence shown below is from the reference sequence of NM_000637. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TCTTCAGAAAGAGCTGGTCACACTTCGTTGAGAACCAGGAGACACGTGTGGCGGGCAGTGGGACCCATAG
ATCTTCTGAAATGAAACAATAATCACATTGACTTACTGTTTGTAGTTTTATGTATTTCTTTATTTAAT
CAGGATCTTCTGATAGTGAAATTTTTAGTACATAATAGAACTTATTTATGGAGTTAGAAATTTGTAGT
GTTATCCAGGATTGATTTTCATTTGATCACATCTCACAGTAATTAATATTTTCAAGTTTTTTTTTATT
AACAGCTCTGTGCTAGTTTTTTTTTCTGTTTTAGCCTCATCCCAAATATAAAGCTTTGTGAAGTACAA
TTAACTTAATGTACTTGAATGAATAGAAGTCTACTTTTTTTTTTTTTTTTTTTTGTAGACAGAGTTTTG
CTCTCATTGCCAGGCTGGAGTGGGTGGTCTATTTAGCTCACCACAACCTCTGCCTCCTGGGTCA
AGTGATTCTCCTGCCTTAGCCTCCGAATAGCTGGAATTACAGGCACGCACCACCATGCCTGACTAATT
TTGATTTTTAGTAGACATGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCACCTCAGGTG
ATCCGCCACCTCGGCCTCCTGAGGTGCTGAGATTACAGGCGTGAGCCACTGTGCCAGCTTGCTAATTT
TCACAGAAGTTGATGGCAATTCTTCACATGTAACAGTGCCAGTGACAGAACCTTTATATATTTTTTG
AAGCCAGTACTGTCTGCATATAACAAAGCTGCTTCAAGGATGAGACCTTTTTCTAAAAGCATGTAA
TGTGAGAAGCCGGCTGCCTATTTTTCTTTTTCTTTTTAATGATTAATAAATAGTTTGTGGCAAGGCA
CGGTGGCTCAGGCTGTAATCTAGCACTTTGGGAGGCCGAGGCAGGAGGATTACTTGAGCCTACAAGT
TTGAGGCCAGCATGCACAGCATAGCAAGACTGCATCTCTACAGAGAGTAAAAAATACCCGAGTGTG
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TGAGGCTGCAGTGAATCCTGATCATGCTGCTGCACTCAATCTTGACAACAGAGCAAGACCTGTCTCA
AAAAAAAAAAAAAAAAAATATATATATATATATATTATTTTTATGAGGTGAAGTGCATCAAACCTGGG
AAAGATTTGAGGAGGCTGGAAACCTCCTGGAAAACCACTCCTGAAGAAAGATATGAGAGACATTTAGA
AGTGATTCCTGCTTTCAGAAGGAGGTGGATTCAAATACATCAAAAGTCCCTTCTCTGCTAAGTGTTTA
TAGTTCAATGAATAATTTCAATATTTGTATGTGTTCTTGTCAATTTATTTTTTTCTGAAAAACTCCAA
AAATTTGAAAATAAAATTACAGCCTTTTCTCTTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_000637.5](#)

Summary: This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. Rare mutations in this gene result in hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Aug 2010]

Locus ID: 2936

MW: 56.8