

## Product datasheet for **SC213863**

### Sorbitol Dehydrogenase (SORD) (NM\_003104) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Sorbitol Dehydrogenase (SORD) (NM_003104) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	SORD
Synonyms:	HEL-S-95n; RDH; SDH; SORD1; SORDD; XDH
ACCN:	NM_003104
Insert Size:	2000 bp



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**Insert Sequence:**

>SC213863 3'UTR clone of NM\_003104

The sequence shown below is from the reference sequence of NM\_003104. 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
AAGTGTGACCCAGTGACCAGAATCCCATGTTAATGGGCTCTGCCCTCATCCCCACAGTCTTGGGAT
CTCAGGGCACAATGGCTGGACATGGGTGGGCTCTGATGCAGAACTTTCTTTTTGAATGTTAAGAATAA
CTAATACAATTCATTGTGAACAGAACTCTTAAGCAGAGGAATTGGTGTGCCTTAAAGATAACAATCTGG
GATAGTTTGGGGAACTTGTAGCCAGAATGCCCTGTTTCATGCTGAGCAAAGTTCAGCAAGTAGAGCAGA
GTTTGGCAGGCAGGTGCCAGGAATCCCCTTCTCCTGGAGTGCCTTCATTGAGGAAGGAAATCTGGCC
CTTGGGTTTCTGGTCCACTGCTACTGACCCAGAGGGGAATGAGGGCTGAGTTATGAAAAGATAACTT
CATGAAGACTTAACTGGCCAGAAGCTGATTTTCATGAAAATCTGCCACTCAGGGTCTGGGATGAAGGC
TTGTCAGCACTTCCAGTTTAGAACGCAATGTTTCTAGAGACATATTGGCTGTTTGTGTTTGTATGATAAAA
GGAGAATAAGAAAAGGCATCACTTTCTGGATCCAGGATAATTTTTAAACCAATCAAATGAAAAAACA
AACAAACAAAAAGGAAATGTATGTGAGGTTAAACCAGTTTGCATTCCCTAATGTGAAAAAGTAAAG
AGGACTACTCAGCACTGTTTGAAGATTGCCTCTTCTACAGCTTCTGAGAATTGTGTTATTTCACTTGCC
AAGTGAAGGACCCCTCCCAACATGCCCCAGCCACCCCTAAGCATGGTCCCTTGTACCAGGCAACC
AGGAACTGCTACTTGTGGACCTCACCAGAGACCAGGAGGGTTTGGTTAGCTCACAGGACTTCCCCAC
CCCAGAAGATTAGCATCCATACTAGACTCATACTCAACTCAACTAGGCTCATACTCAATTGATGGTTA
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CTCTTGGTATCTTTCTGTTGGAATGATTTCTATGAACCTTGCTTATTTTTAATGGTGGGTTTTTTTTCTG
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TAGTAGCCATGACATAGCTTGAAGCTATAGCCTTTAATTCCTTACTTTGGCTATGGGTGGAGGGTGAAGT
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TGGGTAATAAATATTGGTGGTGGTATCTGACTCATGCTGCTGTTTATGGTCTGTTTGTAGTGGGAAATGG
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AAAGAAGATATAAATGCCAGAGGAGACCTTAAGATTGTCTTACAACACAACCCCTCAGTTAACGAGAGA
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TGCACTAAGCAGTCTTGGTGGAAACATCTTCTCACGCCCTGTGCCCTTTTTCAGGTGCCAGAGAAGG
AGCTCCAGTGTCTGCTTCCAGCCAGGGCTTTAAGAGAGAAGGAAGCTGGGAGTGGGGGCAGAGGCTCTA
CCAGAGAATGTCTGCTGGTGTCTTGGAGGCACTTCTGCAGCCTATGCATGCCTCGTGAAGCCATTT
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
    
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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\\_003104.6](#)

**Summary:**

Sorbitol dehydrogenase (SORD; EC 1.1.1.14) catalyzes the interconversion of polyols and their corresponding ketoses, and together with aldose reductase (ALDR1; MIM 103880), makes up the sorbitol pathway that is believed to play an important role in the development of diabetic complications (summarized by Carr and Markham, 1995 [PubMed 8535074]). The first reaction of the pathway (also called the polyol pathway) is the reduction of glucose to sorbitol by ALDR1 with NADPH as the cofactor. SORD then oxidizes the sorbitol to fructose using NAD(+) cofactor.[supplied by OMIM, Jul 2010]

**Locus ID:**

6652

**MW:**

75.7