

## Product datasheet for **MC204150**

### Sord (NM\_146126) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sord (NM_146126) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sord
Synonyms:	Sdh-1; Sdh1; Sodh-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC024124  
 GGCGGTTGGACGAGCAGAACCACCAGCTCCCCGCCGGTCCAGCGGACACCTCGAAGCAAGAGAGCAACA  
 TGGCAGCTCCAGCTAAGGGCGAGAACCTGTCCCTGGTGGTGCACGGACCTGGAGACATCCGCCTGGAGAA  
 CTACCCAATACCTGAGCTCGGCCAAATGATGTGTTACTAAAGATGCACTCGGTGGGGATTTGCGGCTCA  
 GATGTTCACTACTGGGAGCATGGACGAATTGGGGACTTTGTTGTGAAAAAGCCAATGGTGCTTGGGCATG  
 AGGCTGCTGGAACAGTCACAAAAGTAGGAGAGTTGGTAAACATCTGAAACCAGGAGATCGGGTTGCCAT  
 CGAGCCTGGCGTTCGCCGAGAACGATGAGTACTGCAAGATTGGCCGGTACAACCTGACGCCGACTATC  
 TTCTTCTGTGCCACGCCCGGATGATGGAACCTCTGCCGATTCTACAAGCACAAATGCTGACTTCTGCT  
 ACAAGTTCCTGACAGTGTCACTTTTGAAGAAGGGCCCTGATTGAACCTCTCTGTGGGGATCTATGC  
 CTGCCGTGAGGTTTCACTTTCCCTGGGGAACAAGGTCCTTGTGTGTGGCGCTGGGCCAGTTGGGATGGT  
 ACTTTGCTTGTGGCCAAAGCAATGGGAGCTGCTCAAGTTGTGGTACTGACCTATCCGCTTCTCGGTTGA  
 CCAAAGCCAAGGAAGTTGGAGCAGACTTTACCATCCAGGTTGGCAAAGAGACCCCTCAGGAAATTGCCAG  
 TAAGGTGGAAGCCTGCTGGGAAGCAAGCCGAGGTTACCATTGAGTGCACAGGAGCCGAGTCTCCGTC  
 CAGACGGGCATCTATGCCACTACTCTGGTGGGACCTTGGTGATTGTGGGAATGGCGCCGAGATGGTCA  
 ATTTACCCTGGTGCACGCAGCCATTCCGGAAAGTGATATCAAAGCGTGTTCGATACTGCAACACGTG  
 GCCGATGGCAATTTCCATGCTTGCATCGAAGACGTTGAATGTAAGCCCTTAGTTACCCACAGATCCCC  
 CTGGAGAAGGCAGTTGAAGCCTTGAACAGCCAAAAGGGAGTGGGGCTGAAAGTTATGATCAAGTGTG  
 ACCCCAATGACCAAAACCCCTAGATGTGAATTGATCTATGCCCTCAGCCACTCTCTCAGCATCTGAGAG  
 CTAATTGCTAGAAAGGGAGGCCGTAATGCAGAACTTTCTTTTGAATGGTAAAAATAATAAACTCATAA  
 GCGGAGAGCCTAAGAGGAGTGGGCATGCCTTAAGGACAGAAGTAGGGACACCTTGAGGGACCTTGTAGCC  
 AGAATGAGATGCTTATACTAAGGAAAGTCTAGCACAGAGAGTCTGGCAGATAGGTCCTGGGAACACCTTT  
 TCTCTAGTACCTTCCCTGGTGAGGAGACACGCATGCCTTTGTGTGTTCTACTGTGATTGCCAGAGAGTG  
 GGGCTGACTTATGAAGAAATGGATTTCATTAACATGGAAGTGGCCCAAGGGCTGAACTTTTGGTCACTGT  
 TCAGAGCACAAATGTTTCTCTAGTTAAGTGTCAATTTATTTGAGGGGAATAAAGGAACCTTGTCTGGACCCA  
 GACAAGGAACTGATCTGGAAAGAATAAGATAAATCCCAGATGAGGTACCCTAGCTTACATTCCCCAGATGT  
 GGAAAGTATAAGGGCACTCGGCTCTGCCAAAGACTACCTCTGTCTCAGCTACTAAGAATTCTGTCTTA  
 CATTTGCAAAGTGGAGGCCACCTTCCCAACACTGCTCATTATGAGCAGGAGCAGTATTGGTTGCTAGG  
 CAACCAGATTTTTTTTTTCCCAACCAAAGATCTTAAATCTGCCTAGAGGGCCACAGGAGGGCTTGGCCC  
 ACTCAGAGGATTAGACTCCTCTCCAGAGTCACTCACAGGCAATATTTCCCATCCACTCAGTTCTGGC  
 TACCAGAAGATGCTCCCCTCTCAGCTGGGTGAGGCTGCTGATATCTGTCGGATGGGTATCACAGCGTAAT  
 TTCATCATAGGGCTTTTCTTTATAAGATTTGGGTCCAAATCACACCCTTTGTGATCTTAAGATAATCAAG  
 AAATGCACAGTAACTGATGTAACCTGGGCTGCAGTCTGTAATCCACCTCTCAGCTATAAGTAGGGGACA  
 TGTTAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_146126

**Insert Size:** 1074 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:** [BC024124](#), [AAH24124](#)

**RefSeq Size:** 2189 bp

**RefSeq ORF:** 1074 bp

**Locus ID:** 20322

**UniProt ID:** [Q64442](#)

**Cytogenetics:** 2 60.59 cM

**Gene Summary:** Polyol dehydrogenase that catalyzes the reversible NAD(+)-dependent oxidation of various sugar alcohols (By similarity). Is active with D-sorbitol (D-glucitol) leading to the C2-oxidized product D-fructose (PubMed:6852349). Is a key enzyme in the polyol pathway that interconverts glucose and fructose via sorbitol, which constitutes an important alternate route for glucose metabolism (By similarity). May play a role in sperm motility by using sorbitol as an alternative energy source for sperm motility and protein tyrosine phosphorylation (PubMed:18799757). Has no activity on ethanol. Cannot use NADP(+) as the electron acceptor (PubMed:6852349).[UniProtKB/Swiss-Prot Function]