

## Product datasheet for **SC114562**

### NSDHL (NM\_015922) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NSDHL (NM_015922) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSDHL
Synonyms:	H105E3; SDR31E1; XAP104
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114562 sequence for NM_015922 edited (data generated by NextGen Sequencing)

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ATGGAACCAGCAGTTAGCGAGCCAATGAGAGACCAAGTCGCACGGACTCATTGACAGAG
GACACTCCCAAAGTGAATGCTGACATAGAAAAGTTAACCAGAATCAGGCCAAGAGATGC
ACAGTGATCGGGGCTCTGGATTCTGGGCAGCACATGGTGGAGCAGTTGCTGGCAAGA
GGATATGCTGTCAATGTATTTGATATCCAGCAAGGGTTTGATAATCCCCAGGTGCGGTT
TTTCTGGGTGACCTCTGCAGCCGACAGGATCTGTACCCAGCTCTGAAAGGTGTAACACA
GTTTTCCACTGTGCGTCACCCCCACCATCCAGTAACAACAAGGAGCTCTTTTATAGAGTG
AATTACATTGGCACCAAGAATGTCATTGAAACTTGCAAAGAGGCTGGGGTTCAGAAACTC
ATTTTAACCAGCAGTGCCAGTGCATCTTTGAGGGCGTCGATATCAAGAATGGAAGTAA
GACCTTCCCTATGCCATGAAACCCATTGACTACTACACAGAGACTAAGATCTTACAGGAG
AGGGCAGTTCTGGGCGCCAACGATCCTGAGAAGAATTTCTTAACCACAGCCATCCGCCCT
CATGGCATTTCGGCCCAAGGGACCCGAGTTGGTACCCATCCTCATCGAGGCAGCCAGG
AACGGCAAGATGAAGTTCGTGATTGAAATGGGAAGAAGTGGTGGACTTACCTTTGTG
GAGAACGTGGTCCATGGACACATCCTGGCGGCAGAGCAGCTCTCCCGAGACTCGACACTG
GGTGGGAAGGCATTTACATCACCATGATGAGCCATCCCTTTCTGGACATTCTGTCT
CGCATCCTGACAGGCCTCAATTATGAGGCCCAAGTACCACATCCCCTACTGGGTGGCC
TACTACCTGGCCCTCCTGCTATCCCTGCTGGTGGTGGTATCAGTCCCTGTATCCAGCTG
CAGCCCACCTTACACCCATGCGGGTGCAGTGGCTGGCACATTCCACTACTACAGCTGC
GAGAGAGCCAAAAGGCCATGGGCTACCCAGCCACTAGTGACCATGGATGATGCTATGGAG
AGGACCGTGCAGAGCTTTCGCCACCTGCGGAGGGTCAAGTGA
```

Clone variation with respect to NM\_015922.2  
132 t=>g



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_015922 unedited            NNNGGTTCGAATTTTGTAAACGACTCACTATAGGGCGGCCGCGNAATTCGCACGAGGGT            AAAGGGTGGCGGTCCGGGCTGGAGTTCAGTGGGTGCAGCCTGCTTGCGAGCTGAGGCCA            GACAGGGGGGCGCCTACGGACGGAAAAGAAAAGTTGATTACAAACGGGACCATATTTTGC            TTCGAAATGGAACCAGCAGTTAGCGAGCCAATGAGAGACCAAGTCGCACGGACTCATTTG            ACAGAGGACACTCCCAAAGTGAATGCTGACATAGAAAAGTTAACCAGAATCAGGCCAAG            AGATGCACAGTGATCGGGGCTCTGGATTCTGGGGCAGCACATGGTGGAGCAGTTGCTG            GCAAGAGGATATGCTGTCAATGTATTTGATATCCAGCAAGGGTTTGATAATCCCCAGGTG            CGTTCTTTCTGGGTGACCTCTGCAGCCGACAGGATCTGTACCCAGCTCTGAAAGGTGTA            AACACAGTTTTTCACTGTGCGTCACCCCCACCATCCAGTAAACAAGGAGCTCTTTTAT            AGAGTGAATTACATTGGCACCAAGAATGTCATTGAAACTTGCAAAGAGGCTGGGGTTCAG            AAACTCATTTTAACCAGCAGTGCCAGTGTATCTTTGAGGGCGTCGATATCAAGAATGGA            ACTGAAGACCTTCCCTATGCCATGAAACCCATTGACTACTACACAGAGACTAAGATCTTA            CAGGAGAGGGCAGTTCTGGGCGCAACGATCCTGAGAAGAATTTCTTAACCACAGCCATC            CGCCCTCATGGCATTTCGGCCAGGGACCCGAGTTGGTACCCATCCTCATCGAGGCAG            CCAGGAACGGGCAGATGAAGTTCGTGATTGAAAATGGNAAGAACTGNNNTGACTCACCT            TTGTGGAGAACGTGG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_015922 unedited            NGACTCATGGNTAGAGATCATAGTAACTGCCTGCTTCAANAAATCCAAATCCAGTTCCAT            GAAGGAAGAAAGTCTGTTTTTGGCCGCTCATCGTCACGAAAGAGTAGGGTGCCTCTC            TGCCTAGCAGAAGGAGTCACAGGCTCAGAGCAAATCATTCAAAGGATGTTATTTTCATCA            ATCCACAGGGGAAGGAGTACTGGCTGAGCAACGTGTCTAGAGAGCCAGCCTCCAGTGT            CCCTCACTTGACCCTCCGAGGTGGCGAAAGCTCTGCACGGTCCCTCCATAGCATCATC            CATGGTCACTAGTGGCTGGTAGCCATGGCCTTTTTGGCTCTCTCGCAGCTGTAGTAGTG            GAATGTGCCAGCCAGTGCACCCGCATGGGTGTGAAGGTGGGCTGCAGCTGGATGACAGG            ACTGATACCATCACCAGCAGGGATAGCAGGAGGGCCAGGTAGTAGGCCACCCAGTAGGG            GATGTGGTACTTGGGGCCTCATAATTGAGGCCTGTGAGGATGCGAGACAGGAATGTCCA            GAAAGGGATGGGCTCATCATTGGTGATGTGAAATGCCTTCCCACCCAGTGTGAGTCTCG            GGAGAGCTGCTCTGCCGCCAGGATGTGCCATGGACCAGTTTCCACAAAGGTGAAGTC            CACCAAGTTCTTCCATTTCCAATCACGAACCTCATTTGCCGTTTCTGGCTGCCTCGAT            GAGGATGGGTACCAACTGCGGTTCCCTCGGGCCGAAAATGCCATGAGGGCGGATGGCTGT            GGTAAAGAAATCTCTCAGGATCGTTGGCGCCAAAAGTCCCTTTCTGTAAGACCTTA            GTCTCTGTGTAGAACTCAATGGGTTTCATGGCCTATGGAAGTCTTAATCCATTCTTGAT            ATCAACCCTCAAAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015922
<b>Insert Size:</b>	1630 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_015922.1](#), [NP\\_057006.1](#)

**RefSeq Size:** 1563 bp

**RefSeq ORF:** 1122 bp

**Locus ID:** 50814

**UniProt ID:** [Q15738](#)

**Cytogenetics:** Xq28

**Domains:** 3Beta\_HSD

**Protein Families:** Transmembrane

**Protein Pathways:** Metabolic pathways, Steroid biosynthesis

**Gene Summary:** The protein encoded by this gene is localized in the endoplasmic reticulum and is involved in cholesterol biosynthesis. Mutations in this gene are associated with CHILD syndrome, which is a X-linked dominant disorder of lipid metabolism with disturbed cholesterol biosynthesis, and typically lethal in males. Alternatively spliced transcript variants with differing 5' UTR have been found for this gene. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the more predominant transcript. Transcript variants 1 and 2 encode the same protein.