

Product datasheet for RC225571

NSDHL (NM_001129765) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSDHL (NM_001129765) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NSDHL
Synonyms:	H105E3; SDR31E1; XAP104
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225571 representing NM_001129765 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCAGCAGTTAGCGAGCCAATGAGAGACCAAGTCGCACGGACTCATTTGACAGAGGACACTCCCA
AAGTGAATGCTGACATAGAAAAGGTTAACCAGAATCAGGCCAAGAGATGCACAGTGATCGGTGGCTCTGG
ATTCCTGGGGCAGCACATGGTGGAGCAGTTGCTGGCAAGAGGATATGCTGTCAATGTATTTGATATCCAG
CAAGGGTTTGATAATCCCAGGTGCGGTTCTTTCTGGGTGACCTCTGCAGCCGACAGGATCTGTACCCAG
CTCTGAAAGGTGTAACACAGTTTTCCACTGTGCGTCACCCCCACCATCCAGTAACAACAAGGAGCTCTT
TTATAGAGTGAATTACATTGGCACCAGAATGTCATTGAAACTTGCAAAGAGGCTGGGGTTCAGAAACTC
ATTTTAACCAGCAGTGCCAGTGTCACTTTGAGGGCGTCGATATCAAGAATGGAAGTGAAGACCTTCCCT
ATGCCATGAAACCCATTGACTACTACACAGAGACTAAGATCTTACAGGAGAGGGCAGTTCTGGGCGCCAA
CGATCCTGAGAAGAATTTCTTAACCACAGCCATCCGCCCTCATGGCATTTCGGCCCAAGGGACCCGCGAG
TTGGTACCCATCCTCATCGAGGCAGCCAGGAACGGCAAGATGAAGTTCGTGATTGGAAATGGGAAGAACT
TGGTGGACTTACCTTTGTGGAGAACGTGGTCCATGGACACATCCTGGCGGCAGAGCAGCTCTCCCGAGA
CTCGACACTGGGTGGGAAGGCATTTACATCACCAATGATGAGCCATCCCTTTCTGGACATTCTGTCT
CGCATCCTGACAGGCCTCAATTATGAGGCCCCCAAGTACCACATCCCCTACTGGGTGGCCTACTACCTGG
CCCTCCTGCTATCCCTGCTGGTGATGGTATCAGTCTGTCCAGCTGCAGCCACCTTCACACCCAT
GCGGGTGCAGCTGGTGGCACATTCCACTACTACAGCTGCGAGAGAGCCAAAAAGCCATGGGCTACCAG
CCACTAGTGACCATGGATGATGCTATGGAGAGGACCGTGCAGAGCTTTCGCCACCTGCGGAGGGTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225571 representing NM_001129765
Red=Cloning site Green=Tags(s)

MEPAVSEPMRDQVARTHLTEDTPKVNADIEKVNQNAKRCTVIGGSGFLGQHMVEQLLARGYAVNVFDIQ
 QGFDNPQVRFFLDLCSRQDLYPALKGVNTVFHCASPPSSNNKELFYRVNYIGTKNVIETCKEAGVQKL
 ILTSSASVIFEGVDIKNGTEDLPYAMKPIDYYTETKILQERAVLGANDPEKNFLT TAIRPHGIFGPRDQ
 LVPILIEAARNGKMKFVINGKNLVDFTFVENNVHGHILAAEQLSRDSTLGGKAFHITNDEPIPFWTFLS
 RILTLGLNVEAPKYHIPYVWAYLALLSLLVMVISPVIQLQPTFPMRVALAGTFHYYSERAKKAMGYQ
 PLVTMDDAMERTVQSFRLRRVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8102_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001129765

ORF Size: 1119 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001129765.1](#), [NP_001123237.1](#)

RefSeq Size: 1648 bp

RefSeq ORF: 1122 bp

Locus ID: 50814

UniProt ID: [Q15738](#)

Cytogenetics: Xq28

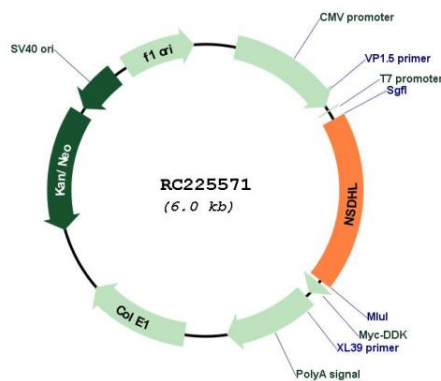
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Steroid biosynthesis

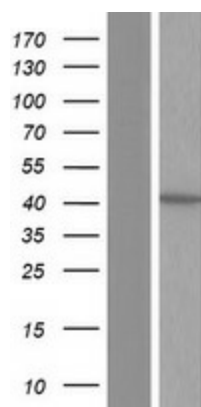
MW: 41.9 kDa

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]

Product images:



Circular map for RC225571



Western blot validation of overexpression lysate (Cat# [LY427043]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225571 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).