

Product datasheet for **SC122903**

DHH (NM_021044) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHH (NM_021044) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHH
Synonyms:	GDMN; GDXYM; HHG-3; SRXY7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_021044 edited
 GTCCGGAGTCCGGGCGTTCTGGCAGCACCAGAGTCTGCAGCAGAGACGGGCTGGGCTGG
 CACTCACCCACGACCCCCCTTCCCTGCTATGATGGTTTGTGAGTGCAGGTCCTAGACAC
 CCCCCGCCGCTCCCGGGCAGCTGGGCAGAGCTAGCAGCAGCCAGGTGCACGGAGCCAC
 AAGAGCTCTAGGGCACTCTGGGGCAGCTGTGCCTGCTGCCCTCTCTGGTGCCTGTGGAG
 ATGCCTAACTGACAGGAGAGTTAGTGAGGACAAGAACGCTCCCTTTTGGCCGAGGTCGCG
 TGTATCCATGGCTCTCCTGACCAATCTACTGCCCTGTGCTGCTTGGCACTTCTGGCGCT
 GCCAGCCAGAGCTGCGGGCCGGGCCGGGGCCGGTTGGCCGGCCGCTATGCGCGCAA
 GCAGCTCGTGCCGCTACTCTACAAGCAATTTGTGCCCGGCGTGCCAGAGCGGACCCTGGG
 CGCCAGTGGGCCAGCGAGGGGAGGGTGGCAAGGGGCTCCGAGCGCTTCCGGGACCTCGT
 GCCCAACTACAACCCCGACATCATCTTCAAGGATGAGGAGAACAGTGGAGCCGACCGCT
 GATGACCGAGCGTTGTAAGGAGCGGGTGAACGCTTTGGCCATTGCCGTGATGAACATGTG
 GCCCGGAGTGCCTACGAGTACTGAGGGCTGGGACGAGGACGGCCACCACGCTCAGGA
 TTTACTCCACTACGAAGCCGCTGCTTTGGACATCACTACGTCTGACCGGACCGCAACAA
 GTATGGGTTGCTGGCGCGCTCGCAGTGAAGCCGGCTTCGACTGGGTCTACTACGAGTC
 CCGCAACCACGTCCACGTGTCGGTCAAAGCTGATAACTACTGGCGGTCCGGGCGGGCGG
 CTGCTTTCCGGGAAATGCAACTGTGCGCCTGTGGAGCGGCGAGCGGAAAGGGCTGCGGGA
 ACTGCACCGCGGAGACTGGGTTTTGGCGCCGATGCGTCAAGCCGGGTGGTGGCCACGCC
 GGTGCTGCTTCTCCTGGACCGGGACTTGCAGCGCCGGGCTTCATTTGTGGCTGTGGAGAC
 CGAGTGGCCTCCACGCAAACTGTTGCTCACGCCCTGGCACCTGGTGTTCGCCGCTCGAGG
 GCCGGCGCCCGCCAGGCGACTTTGCACCGGTGTTGCGCGCCGGCTACGCGCTGGGGA
 CTCGGTGTGGCCTCCGGCGGGGATGCGCTTCGCCAGCGCGCTGGCCCGTGTGGCGCG
 GGAGGAAGCCGTGGCGGTGTTGCGCGCGCTCACCGCGCACGGGACGCTGCTGGTGAACGA
 TGTCTGGCCTTGTCTACGCGGTTCTGGAGAGTACCAGTGGGCGCACCGCGCTTTTGC
 CCCCTTGAGACTGCTGCACGCGCTAGGGGCGCTGCTCCCGCGGGGCGCTCCAGCCGAC
 TGGCATGCATTGGTACTCTCGGCTCCTCTACCGCTTAGCGGAGGAGTACTGGGCTGAGC
 GTCCCAGGCATAGAACTCGAAGCGCCCGAGGAAACGAGGGCCTGCTGGCTGAGATATG
 GGGCTGTGGCAGCAGACGATGCCGACTGGAAGGGAGGGAGGGAGGGGAGGGAGAA
 ATGGGGCTATGCCTGGCTTAGGGGCAACCTCGTACTGAGAGGAGGTGATACCGGGTCTA
 GGTAGGTAGGGCTGATGGTGCCTACTCCTTAAAGAGGACTATTTAGCCTCTCCCCAGTG
 CTTAGCCCCACCGATAATTTTATTTTATTTCTATTTATAAATTGTAATATAATGATT
 CCCTTGCCAGCTTGCCAAGGTGAGGGGCTGGGGCATGGCATTAACTGTCTGACACAG
 CCAAGCCAGTCTGACATCTGACGTTTTCTGCAAGGTGGGCTAATAAAGGGAAGGCTTTCA
 GGAGCTTACTGGAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021044 unedited
 GTCAAATTTGTATACGACTCACTATAGGCGCCGCGAATCCCGGNTGTCCGGAGTCCGG
 GCGTTCTGGCAGCACCAGAGTCTGTCAGCAGAGACGGGCTGGGCTGGCACTCACCCACGA
 CCCCCCTTCCCTGCTATGATGGTTTGTGAGTAGCAGGTCTAGACACCCCCCGCCGCTC
 CCGGGGACGCTGGGCAGAGCTAGCAGCAGCCAGGTGCACGGAGCCACAAGAGCTTAGGG
 CACTCTGGGGCAGCTGTGCCTGCTGCCCTCTCTGGTGCCTGTGGAGATGCCTAACTGAC
 AGGAGAGTTAGTGAGGACAAGAACGCTCCCTTTTGGCCGAGGTCCGCTGTATCCATGGCT
 CTCCTGACCAATCTACTGCCCTGTGCTGCTTGGCACTTCTGGCGCTGCCAGCCAGAGC
 TGCGGGCCGGCCGGGGCCGGTTGGCCGGCGCCGCTATGCGCGCAAGCAGCTCGTGCCG
 TACTCTACAAGCAATTTGTGCCGGCGTGCCAGAGCGGACCCTGGGCGCCAGTGGGCCA
 GCGGAGGGGAGGGTGGCAAGGGGCTCCGAGCGCTTCCGGGACCTCGTGCCCAACTACAAC
 CCCGACATCATCTTCAAGGATGAGGAGAACAGTGGAGCCGACCGCTGATGACCGAGCGT
 TGTAAGGAGCGGGTGAACGCTTTGGCCATTGCCGTGATGAACATGTGGCCGGAGTGCGC
 CTACNAGTGACTGAGGGCTGGGACGAGGACGGCCACACGCTCAGGATCACTACTACGAA
 GCCGTGCCTTGGANTCACTACTTCTGACCGCGACGCAACAGTATGGGTTGCTGGCGCGCC
 TCCAATGAAAGCCGCTTCCACTGGGTTACTACAAGTCCGAACCACGTCCAGTGTCCGTCA
 AGCTGAAACTCACTGA

Restriction Sites:	Please inquire
ACCN:	NM_021044
Insert Size:	1971 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:	<ol style="list-style-type: none">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:	<u>NM_021044.2</u> , <u>NP_066382.1</u>
RefSeq Size:	1971 bp
RefSeq ORF:	1191 bp
Locus ID:	50846
UniProt ID:	<u>O43323</u>
Cytogenetics:	12q13.12
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protease
Protein Pathways:	Hedgehog signaling pathway
Gene Summary:	This gene encodes a member of the hedgehog family. The hedgehog gene family encodes signaling molecules that play an important role in regulating morphogenesis. This protein is predicted to be made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the organism. Defects in this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. This protein may be involved in both male gonadal differentiation and perineurial development. [provided by RefSeq, May 2010]