

Product datasheet for **RG206715**

DHH (NM_021044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHH (NM_021044) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHH
Synonyms:	GDMN; GDXYM; HHG-3; SRXY7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206715 representing NM_021044 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTCTGACCAATCTACTGCCCTGTGCTGCTTGGCACTTCTGGCGCTGCCAGCCAGAGCTGCG
GGCCGGGCGGGGGCGGTTGGCCGGCGCCGCTATGCGCGCAAGCAGCTCGTGCCGCTACTCTACAAGCA
ATTTGTGCCCGGCGTGCCAGAGCGGACCCTGGGCGCCAGTGGCCAGCGGAGGGGAGGGTGGCAAGGGGC
TCCGAGCGCTTCCGGGACCTCGTGCCAACTACAACCCCGACATCATCTTCAAGGATGAGGAGAACAGTG
GAGCCGACCGCTGATGACCGAGCGTTGTAAGGAGCGGGTGAACGCTTTGGCCATTGCCGTGATGAACAT
GTGGCCCGGAGTGCGCCTACGAGTGACTGAGGGCTGGGACGAGGACGGCCACCACGCTCAGGATTA
CACTACGAAGGCCGTGCTTTGGACATCACTACGCTGACCGCGACCGCAACAAGTATGGGTTGCTGGCGC
GCCTCGCAGTGGAAGCCGGCTTCGACTGGGTCTACTACGAGTCCCAGCAACACGTCACGCTGTCGGTCAA
AGCTGATAACTACTGGCGGTCCGGGCGGGCGGCTGCTTCCGGGAAATGCAACTGTGCGCCTGTGGAGC
GGCGAGCGGAAAGGGTGCAGGAACTGCACCGCGGAGACTGGGTTTTGGCGCGGATGCGTCAGGCCGGG
TGGTGCCACGCCGTGCTGCTTCTTGACCGGGACTGCAGCGCCGGCTTCATTTGTGGCTGTGGA
GACCGAGTGGCCTCCACGAACTGTTGCTCACGCCCTGGCACCTGGTGTTCGCGCTCGAGGGCCGGCG
CCCGCGCAGGGACTTTGCACCGGTGTTGCGCGCCGGCTACCGCTGGGACTCGGTGCTGGCGCCCG
CGGGGATGCGCTTCGGCCAGCGCGCTGGCCCGTGTGGCGCGGAGGAAGCCGTGGGCGTGTTCGCGCC
GCTCACCGCGCACGGGACGCTGCTGTTGACGATGTCCTGGCCTCTTGTACGCGGTTCTGGAGAGTCAC
CAGTGGGCGCACCGCGCTTTTGGCCCTTGAGACTGCTGCACGCGCTAGGGGCGCTGCTCCCGCGGGG
CCGTCCAGCCGACTGGCATGCATTGGTACTCTCGGCTCTTACCCTTAGCGGAGGAGCTACTGGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG206715 representing NM_021044
Red=Cloning site Green=Tags(s)

MALLTNLLPLCCLALLALPAQSCGPGRGPVGRRRYARKQLVPLL YKQFVPGVPERTLGASGPAEGRVARG
 SERFRDLVPNYNPDIIIFKDEENSGADRLMTERCKERVNALAIIVMMWPGVRLRVTEGWDEDEGHHAQDSL
 HYEGRALDITTSDDRDRNKYGLLARLAVEAGFDWVYYE SRNHVHVSVKADNSLAVRAGGCFPGNATVRLWS
 GERKGLRELHRGDWVLAADASGRVPTPVLLFLDRDLQRRASFVAVETEWPPRLLLLTPWHLVFAARGPA
 PAPGDFAPVFAARRLRAGDSVLA PGGDALRPARVARVAREEAVGVFAPLTAHGTLVNDVLA SCYAVLESH
 QWAHRAFAPLRLHLGALLPGGAVQPTGMHWYSRLLYRLAEELLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021044

ORF Size: 1188 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_021044.4](#)

RefSeq Size: 1971 bp

RefSeq ORF: 1191 bp

Locus ID: 50846

UniProt ID: [O43323](#)

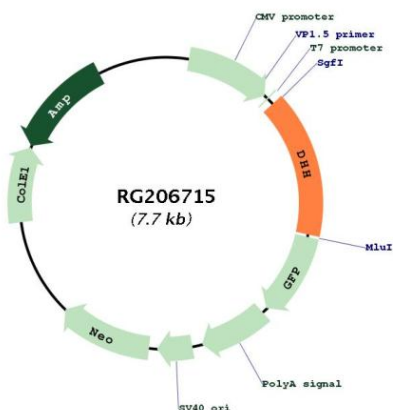
Cytogenetics: 12q13.12

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]

Product images:



Circular map for RG206715