

Product datasheet for **RG206305**

LHFPL5 (NM_182548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LHFPL5
Synonyms:	DFNB67; dJ510O8.8; TMHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206305 representing NM_182548
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGAAATTGCTGCCGGCCAGGAGGCAGCCAAGATCTACCATACCAACTATGTGCGGAACCTCGCGAG
CCGTGGGCGTGATGTGGGTACCTCACCATCTGCTTCTCCGTAAGTGGTCATGGCCCTCTTCATCCAGCC
CTACTGGATCGGCGACAGCGTCAACACACCGCAGGCAGGCTACTTCGGCCTTTCTCCTACTGCGTGGGT
AACGTGCTGTCTCCGAGCTCATCTGCAAGGGCGGCCCTAGACTTCTCCTCCATCCCTCTAGAGCCT
TCAAGACTGCCATGTTCTTTGTGGCCTTGGGCATGTTCTCATCATTGGCTCCATCATCTGCTTCAGCCT
GTTCTTCATCTGCAACACGGCCACAGTCTATAAGATCTGTGCATGGATGCAGCTGGCTGCGGCCACAGGC
CTAATGATTGGCTGCCTGGTCTACCCTGATGGTGGGACTCAAGTGAGGTGCGGCGCATGTGTGGGAGC
AGACGGGCAAGTACAGCTGGGCACTGCACCATCCGCTGGGCTTCATGCTGGCCATCCTCAGCATTGG
CGACGCCCTCATCTCTCCTTCTGGCCTTCGTGTTGGCTACCGGCAGGACAAGCTCCTCCTGACGAC
TACAAGGCAGATGGAACAGAGGAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206305 representing NM_182548
Red=Cloning site Green=Tags(s)

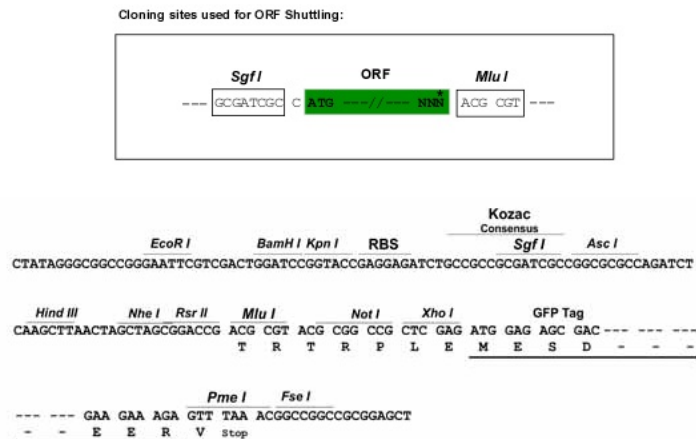
MVKLLPAQEAAKIYHTNYVRNSRAVGVMWGLTICFSLVLMALFIQPYWIGDSVNTPOAGYFGLFSYCVG
NVLSSSELICKGGPLDFSSIPSAFKTAMFFVALGMFLIIGSIICFSLFFICNTATVYKICAWMQLAAATG
LMIGCLVYPDGWDSSEVRRMCGEQTGKYTLGHCTIRWAFMLAILSIGDALILSFLAFVLGYRQDKLLPDD
YKADGTEEV

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182548

ORF Size: 657 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_182548.2](#), [NP_872354.1](#)

RefSeq Size: 2162 bp

RefSeq ORF: 660 bp

Locus ID: 222662

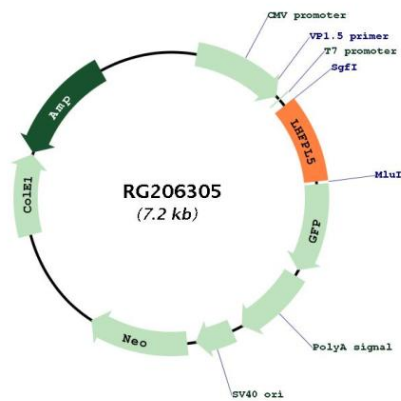
UniProt ID: [Q8TAF8](#)

Cytogenetics: 6p21.31

Protein Families: Transmembrane

Gene Summary: This gene is a member of the lipoma HMGIC fusion partner (LHFP) gene family, which is a subset of the superfamily of tetraspan transmembrane protein encoding genes. Mutations in this gene result in deafness in humans, and a mutation in a similar gene in mice results in deafness and vestibular dysfunction with severe degeneration of the organ of Corti. It is proposed to function in hair bundle morphogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206305