

Product datasheet for **RG229687**

LHPP (NM_001167880) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LHPP (NM_001167880) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LHPP
Synonyms: HDHD2B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229687 representing NM_001167880
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACCGTGGGCAAGCGGCTGGCTGGCGTGC CGGGGTGCTGCTTGACATCTCGGGCGTGTACG
 ACAGCGGCGGGCGGCGGCACGCCATCGCCGGCTCGGTGGAGGCGGTGGCCAGACTGAAGCGTCCCG
 GCTGAAGTGAGGTTCTGCACCAACGAGTCGCAGAAGTCCCGGCAGAGCTGGTGGGCGAGCTTCAGAGG
 CTGGGATTTGACATCTCTGAGCAGGAGGTGACCGCCCGCACCACTGCCTGCCAGATCCTGAAGGAGC
 AAGGCCTGCGACCATACCTGCTCATCCATGACGGAGTCCGCTCAGAATTTGATCAGATCGACACATCCAA
 CCCAAACTGTGTGTAATTGCAGACGCAGGAGAAAGCTTTTCTTATCAAACATGAATAACGCCTTCCAG
 GTGCTCATGGAGCTGGAAAAACCTGTGCTCATATCACTGGGAAAAGGGCCTTACTACAAGGAGACCTCTG
 GCCTGATGCTGGACGTTGGTCCCTACATGAAGGCGCTTGAGTATGCCTGTGGCATCAAAGCCGAGGTGGT
 GGGGAAGCCTTCTCTGAGTTTTCAAGTCTGCCTGCAAGCGATAGGAGTGGAAGCCCACCAGGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229687 representing NM_001167880
 Red=Cloning site Green=Tags(s)

MAPWGKRLAGVRGVLIDISGLVYDSGAGGGTAIAGSVEAVARLKRSLKVRVFNESQKSRAELVGQLQR
 LGFDISEQEVTAAPAAQCILKEQGLRPYLLIHDGVRSEFDQIDTSNPNVVIADAGESFSYQNMNNAFQ
 VLMELEKPVLIISLGKGRYYKETSGLMLDVGPYMKALEYACGIKAEVVGKPSPEFFKSALQAIGVEAHQAQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

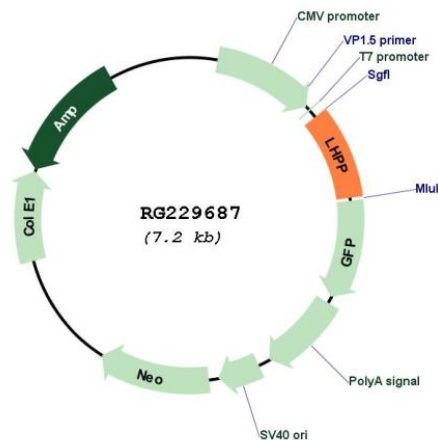


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001167880

ORF Size: 630 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_001167880.2](#)

RefSeq Size: 1611 bp

RefSeq ORF: 633 bp

Locus ID: 64077

UniProt ID: [Q9H008](#)

Cytogenetics: 10q26.13

Protein Families: Druggable Genome

Protein Pathways: Oxidative phosphorylation

Gene Summary: Phosphatase that hydrolyzes imidodiphosphate, 3-phosphohistidine and 6-phospholysine. Has broad substrate specificity and can also hydrolyze inorganic diphosphate, but with lower efficiency (By similarity).[UniProtKB/Swiss-Prot Function]