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Product datasheet for SC326588

LOXHD1 (NM_001145473) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOXHD1 (NM_001145473) Human Untagged Clone
Tag:	Tag Free
Symbol:	LOXHD1
Synonyms:	DFNB77; LH2D1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC326588 representing NM_001145473.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACGGTGTGGACAGGGGATGTGGTTGGCGGGGGCACTGACTCCAACATCTTCATGACCCTCTACGGC
ATCAACGGGAGCACAGAGGAGATGCAGCTGGACAAAAAGAAAGCCAGGTTTGAGCGGGAGCAGAACGAC
ACCTTCATCATGGAGATCCTAGACATTGCTCCATTCACCAAGATGCGGATCCGGATTGATGGCCTGGGC
AGTCGGCCGGAGTGGTTCCTGGAGAGGATCCTACTGAAGAACATGAACACTGGAGACCTGACCATGTTC
TACTATGGAGACTGGCTGTCCCAGCGGAAGGGCAAGAAGACCCTGGTGTGTGAAATGTGTGCCGTTATC
GATGAGGAAGAAATGATGGAGTGGACCTCCTACACCGTCGCAGTTAAGACCAGCGACATCCTGGGAGCA
GGCACTGATGCCAACGTGTTCATCATCATCTTCGGGGAGAACGGGGATAGTGGGACACTGGCCCTGAAG
CAGTCGGCAAACTGGAACAAGTTTGAGCGGAACAACACGGACACATTCAACTTCCCTGACATGCTGAGC
TTGGGCCACCTCTGCAAGCTGAGGGTCTGGCACGACAACAAAGGGATATTTCCTGGCTGGCATCTGAGC
TATGTCGATGTGAAGGACAACTCCCGCGACGAGACCTTCCACTTCCAGTGTGACTGCTGGCTCTCCAAG
AGTGAGGGTGACGGGCAGACGGTCCGCGACTTTGCCTGTGCCAACAACAAGATCTGTGATGAGCTGGAA
GAGACCACCTACGAGATCGTCATAGAAACGGGCAACGGAGGCGAAACCAGGGAGAACGTCTGGCTCATC
CTGGAGGGCAGGAAGAACCGATCCAAAGAGTTTCTCATGGAAAATTCTTCTAGGCAGCGGGCCTTTAGG
AAGGGGACCACAGACACGTTTGAGTTTGACAGCATCTACTTGGGGGACATTGCCTCCCTCTGTGTGGGC
CACCTTGCCAGGGAAGACCGGTTTATCCCCAAGAGAGAACTTGCCTGGCATGTCAAGACCATCACCATC
ACCGAGATGGAGTACGGCAATGTGTACTTCTTTAACTGTGACTGCCTCATCCCCCTCAAGAGGAAGAGG
AAGTACTTCAAGGTATTCGAGGTTACCAAGACGACAGAGAGCTTTGCCAGCAAGGTCCAGAGCCTGGTG
CCCGTCAAGTACGAAGTCATCGTGACAACAGGCTATGAGCCAGGGGCAGGCACTGATGCCAACGTCTTC
GTGACCATCTTTGGGGCCAACGGAGACACAGGCAAGCGGGAGCTGAAGCAGAAAATGCGCAACCTCTTC
GAGCGGGGCAGCACAGACCGCTTCTTCCTGGAGACGCTGGAGCTGGGTGAGCTGCGCAAGGTGCGCCTG
GAGCACGACAGCAGTGGCTACTGCTCAGGCTGGCTGGTGGAGAAGGTGGAGGTCACCAACACCAGCACC
GGCGTGGCCACCATCTTCAACTGTGGCAGGTGGCTGGACAAGAAGCGGGGGGATGGACTCACCTGGAGA
GACCTCTTCCCTTCTGTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001145473

Insert Size: 1539 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001145473.2
RefSeq Size:	1977 bp
RefSeq ORF:	1539 bp
Locus ID:	125336
UniProt ID:	Q8IVV2
Cytogenetics:	18q21.1
MW:	58.7 kDa
Gene Summary:	This gene encodes a highly conserved protein consisting entirely of PLAT (polycystin/lipoxygenase/alpha-toxin) domains, thought to be involved in targeting proteins to the plasma membrane. Studies in mice show that this gene is expressed in the mechanosensory hair cells in the inner ear, and mutations in this gene lead to auditory defects, indicating that this gene is essential for normal hair cell function. Screening of human families segregating deafness identified a mutation in this gene which causes DFNB77, a progressive form of autosomal-recessive nonsyndromic hearing loss (ARNSHL). Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Mar 2010] Transcript Variant: This variant (3) is missing many exons from the 5' end, and contains an alternate 5' terminal exon compared to variant 1. This results in translation initiation from an in-frame downstream AUG, and a shorter isoform (3) compared to isoform 1.