

Product datasheet for SC328100

LOXHD1 (NM_144612) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOXHD1 (NM_144612) Human Untagged Clone
Tag:	Tag Free
Symbol:	LOXHD1
Synonyms:	DFNB77; LH2D1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_144612, the custom clone sequence may differ by one or more nucleotides

```

ATGATGCCCCAGAAGAAAAGGCGGAGGAAGAAGGACATCGACTTCTGGCCCTGTACGAA
GCGGAGCTGCTGAACTACGCCTCGGAGGACGACGAGGGGAGCTGGAACACGAGTACTAC
AAGGCCAGAGTGTATGAAGTGGTCACAGCCACGGGGGATGTTCCGCGTGCAGGGACGGAT
GCCAATGTCTTCATCACGCTTTTTGGAGAGAATGGGCTCTCTCCAAGCTCCAGCTCACC
AGCAAGAGCAAGTCTGCCTTTGAGAAGGGCAACGTCGATGTGTTCCGGGTGAGAACCAAC
AATGTGGGCTCATCTATAAAGTCAGGATTGAGCATGACAACACGGGCTGAATGCCAGC
TGGTACCTGGACCATGTGATTGTGACCGACATGAAGAGGCCTCATCTCCGTTACTACTTC
AACTGCAACAACCTGGCTGAGCAAGGTGGAAGGTGACCGCCAGTGGTGCCGTGACCTGCTG
GCCAGCTTCAACCCCATGGACATGCCCAGAGGTAATAAGTATGAAGTCAAGGTATACACT
GGTGATGTAATTGGTGCAGGGACAGATGCTGATGTCTTCATCAATATTTTGGAGAGTAT
GGAGACACAGGGGAGCGTAGGCTAGAAAATGAAAAGGACAACCTTGAAAAGGGAGCTGAA
GACAGGTTTCATCTGGATGCCCGGATTGGGGCAGCTGATGAAGATCAATGTTGGCCAC
AACAATAAGGGGGGCTCTGCAGGTTGGTTCCTGTCCCAGATAGTCATTGAAGATATTGGG
AACAAAAGAAAATATGACTTCCCCTTAACCGCTGGCTGGCCTTGGACGAAGACGATGGC
AAAATCCAAAGGGATATCTTAGTGGGCGGAGCTGAGACCACAGCTATTACGTATATTGTC
ACCGTCTTCACTGGGGATGTCCGGGGGCTGGTACCAAATCCAAATCTACTTGGTCATG
TATGGGGCCAGAGGGAATAAGAACAGTGGGAAAATCTTCTGGAGGGCGCGTGTGTCG
CGAGGCCGACGACATCTCCACATCGAGCTGGCTGTCCTCCTTAGCCCCCTGAGTCGG
GTCTCCGTGCGGCATGGCAATGTGGGTGTCAACAGAGGCTGGTCTGTGAGAAGTGGTG
ATTCTGTGCCCTTCACTGGTATCCAGCAGACCTTCCCTGTAGCAACTGGCTGGATGAG
AAGAAAGCGGATGGGTTGATTGAGAGGCAGCTCTATGAGATGGTGTCTCTCAGGAAGAAG
CGGCTGAAAAAATTCCTTGGTCCCTGTGGTCTGGACAACCGACCTAAAGAAAGCTGGT
ACCAACTCTCCCATCTTCATCCAGATTTATGGGCAGAAGGGGCGGACAGATGAGATTCTC
CTGAATCCCAACAACAAGTGGTTCAAACCCGGCATAATCGAGAAGTTTAGGATTGAGCTC
CCGGATCTTGGCAGGTTTATAAGATTCGAGTATGGCATGATAAAAGGAGTTCTGGTTCT
  
```


[View online »](#)

GGATGGCATTTAGAAAGGATGACCCTGATGAACACTCTGAACAAAGACAAGTACAACCTC
 AATTGCAACCGCTGGCTGGATGCCAATGAGGATGACAATGAGATAGTGAGGGAATGACT
 GCAGAAGGCCCAACAGTGCGCAGGATCATGGGCATGGCCCGGTACCATGTGACTGTGTGC
 ACAGGTGAACCTGAAGGTGCTGGGACCGATGCCAACGTCTATCTCTGCCTTTTGGTGAT
 GTGGGGGACACGGGGGAACGGCTGCTCTACAACGCAGGAATAACACAGACCTGTTTGAA
 AAGGGCAATGCTGACGAGTTCACATCGAGTCTGTACCATGCGGAATGTGAGGCGGGTG
 AGGATCAGACACGATGGCAAAGGCTCCGGCAGCGGCTGGTACCTGGACAGAGTGTGGTG
 AGAGAGGAGGGGCAGCCTGAGAGCGACAACGTGGAGTTCCCATGTCTCAGGTGGTTGGAC
 AAGGATAAGGATGATGGGCAGCTGGTCCGAGAGTTGCTACCCAGTGACAGCAGCGCGACA
 CTGAAGAAGCTTTCGCTATCACATCAGCTTGAAGACTGGGGATGTCTCTGGGGCCAGCAG
 GATTCTAGAGTCTACATCAAGCTCTATGGGGATAAATCTGACACCATCAAGCAAGTTCTT
 CTTGTCTCTGACAACAACCTCAAAGACTACTTTGAACGTGGCCGGGTGGATGAGTTCACC
 CTCGAGACCTGAACATTGGAATATCAACCGGCTGGTATTGGGCATGACAGCACTGGC
 ATGCATGCCAGCTGGTTCCTGGGCAGCGTTCAGATCCGTGTGCCCGTCAAGGCAAGCAG
 TACACCTTTCCCGCAACCGCTGGCTGGACAAGAACCAGGCTGACGGGCGCTGGAGGTG
 GAGCTGTATCCAGCGAGGTGGTGGAGATCCAGAAATTGGTCCACTATGAGGTTGAGATT
 TGGACAGGAGATGTGGTGGCGCAGGCACCAAGTCCCGAGTCTACATGCAGATCTATGGA
 GAGAAAGGCAAGACAGAAGTGCTCTTCTCTCCAGCCGCTCAAAAGTTTTTGAACGGGCG
 TCCAAGGACACATTCCAGCTTGAGGCGGCCGACGTGGGCGAGGTCTATAAGCTCCGGCTC
 GGGCACACGGGCGAGGGCTTTGGGCCAGCTGGTTCGTGGACACCGTGTGGCTGCGGCAC
 CTGGTGGTGGGGAGGTGGACCTCACGCCGAGGAGGAGGCCCGGAAGAAGAAGGAGAAG
 GACAAGCTGCGGCAGCTGCTCAAGAAGGAGCGGCTGAAGGCCAAGCTGCAGAGGAAGAAG
 AAGAAGAGGAAGGCGAGCGACGAAGAGGACGAGGGGAGGAAGAGGAGTCTCTCATCA
 GAGGAGTCTCTCGTCAGAGGAGGAGGAGATGGAAGAAGAGGAGGAAGAGGAGGAGTTGGG
 CCGGGGATGCAGGAGGTATTGAGCAGCACAAAGTTCGAAGCCACCGCTGGCTGGCCCGG
 GGCAAGGAGGACAACGAACCTTGTCTGGAGTTGGTGCCAGCTGGCAAGCCGGGTCTGAG
 CGAAACACCTATGAGGTTGAGTGGTACGCGGAATGTGCCAAGGCCGGCACTGATGCT
 AACGTCTACCTAACCATCTACGGCGAGGAGTATGGAGACACGGGCGAACGACCCCTGAAG
 AAGTCAGACAAGTCCAACAAATTTGAGCAGGGGCAGACAGACACCTTCACCATCTATGCC
 ATTGACCTGGGGCCCTGACCAAGATTCGGATTGCGCCAGACAACACAGGCAACAGAGCA
 GGCTGGTTCCTGGACAGAATAGACATTACTGACATGAACAACGAGATCACGTACTACTTT
 CCATGCCAACGTTGGCTGGCAGTGGAGGAAGATGATGGCCAGCTGTCCAGGGAGCTGTTG
 CCAAGTGGATGAGTCTATGTGCTGCCACAGAGCGAGGAGGTAGGGGAGGCGGTGACAAC
 AACCCCTCGACAACCTGGCCCTGGAGCAGAAAGATAAATCTACCACATTCTCAGTGACC
 ATAAAGACTGGGGTTAAGAAGAATGCGGGCACAGATGCTAATGTCTTCATCACACTCTTT
 GGCACACAGGATGACACTGGAATGACCTCCTGAAGTCTCCAAGACAAACAGCGATAAG
 TTTGAGAGGGACAGCATTGAAATCTTACGGTGGAGACGCTGGATCTGGGAGACCTGTGG
 AAAGTCCGGCTTGCCATGACAACACAGGCAAGGCCCAAGGCTGGTTTGTAGACTGGGTA
 GAGGTGGATGCCCCATCTCTTGGGAAGTGATGACGTTTTCCCTGTGGCCGCTGGCTGGCC
 AAAACGAAGACGACGGGTCCATCATCAGAGACCTCTTCCATGCAGAGCTTCAGACGAGG
 CTGTACACACCATTTGTTCTTACGAGATCACCTCTACACCAAGTATGTCTTTGCTGCT
 GGGACAGATGCCAACATCTTCATCATCTATGGCTGCGATGCCGTGTGCACCCAGCAG
 AAGTATCTGTGTACCAACAAGAGGGAACAGAAGCAGTTCTTTGAGAGGAAGTCTGCCTCC
 CGCTTCATCGTAGAGTTAGAAGATGTGGGAGAAATCATTGAAAAAATTCGGATTGGCCAT
 AATAACACGGGCATGAATCCTGGGTGGCACTGCTCTACGTGGACATCCGACGGCTCCTC
 CCGGATAAAGACGGTGCAGAGACCTTGACTTTCCCATGCGATCGGTGGCTTGCCACCTCT
 GAGGATGACAAAAGACCATTCGAGAACTGGTTCCATATGACATCTTCACTGAGAAATAC
 ATGAAAGATGGGTCTTACGGCAAGTCTACAAGGAAGTAGAAGAGCCTCTGGACATTGTG
 CTGTACTCGGTGCAGATCTTACAGGGAACATTCTGGGGCAGGGACGGATGCCAAGGTG
 TACATCACCATCTATGGAGACCTCGGGGACACTGGGGAGCGATACCTTGGAAGTCAGAG
 AACCGGACCAACAAGTTCGAGAGAGGAACGGCTGACACCTTCATCATCGAGGCCGCTGAC
 CTAGGCGTCATCTACAAGATCAAGCTCCGCCATGACAACCTCAAGTGGTGGCAGACTGG

TACGTGGAGAAGGTGGAGATCTGGAATGACACCAACGAGGACGAGTTCCTGTTCCCTATGC
 GGGCGCTGGCTCTCCCTGAAGAAGGAGGATGGGCGACTCGAGAGGCTCTTTACGAGAAG
 GAGTACACTGGGACCGCAGCAGCAACTGCAGCAGCCCTGCTGACTTCTGGGAGATCGCC
 CTGAGCTCCAAGATGGCCGATGTCGACATCAGCACAGTGACCGGGCCCATGGCTGACTAC
 GTTCAAGAGGGCCCAATTATTCCTACTATGTGTGTCAGTCACTGGGAAGCACAAGGAC
 GCGGCCACTGACAGCCGAGCCTTCATCTTCTCATCGGGAGGATGATGAACGTAGTAAG
 CGCATCTGGTTGGACTACCCCGAGGGAAGAGGGGCTTCAGCCGTGGCTCTGTGGAGGAG
 TTCTACGTGCGAGGCTTGATGTGGGCATCATCAAGAAAATAGAGTTCTCTATGAAATG
 ACGGTGTGGACAGGGGATGTGGTTGGCGGGGCGACTGACTCCAACATCTTCATGACCCTC
 TACGGCATCAACGGGAGCACAGAGGAGATGCAGCTGGACAAAAAGAAAGCCAGGTTTGAG
 CGGGAGCAGAACGACACCTTCATCATGGAGATCCTAGACATTGCTCCATTCACCAAGATG
 CGGATCCGGATTGATGGCTGGGAGTGGCCGGAGTGGTTCTGGAGAGGATCCTACTG
 AAGAACATGAACACTGGAGACCTGACCATGTTCTACTATGGAGACTGGCTGTCCAGCGG
 AAGGGCAAGAAGACCCTGGTGTGTGAAATGTGTCCGTTATCGATGAGGAAGAAATGATG
 GAGTGGACCTCTACACCGTCGAGTTAAGACCAGCGACATCCTGGGAGCAGGCACTGAT
 GCCAACGTGTTTCATCATCTTCGGGGAGAACGGGGATAGTGGGACACTGGCCCTGAAG
 CAGTCGGCAAACTGGAACAAGTTTGAGCGGAACAACACGGACACATTCAACTTCCCTGAC
 ATGCTGAGCTTGGGCCACCTCTGCAAGCTGAGGGTCTGGCAGCACAACAAAGGGATATT
 CCTGGCTGGCATCTGAGCTATGTCGATGTGAAGGACAACCTCCCGCAGCAGACCTTCCAC
 TTCCAGTGTGACTGCTGGCTCTCCAAGAGTGAGGGTGACGGGCAGACGGTCCGCGACTTT
 GCCTGTGCCAACAAAGATCTGTGATGAGCTGGAAGAGACCACCTACGAGATCGTCATA
 GAAACGGGCAACGGAGGCGAAACCAGGGAGAACGTCTGGCTCATCCTGGAGGGCAGGAAG
 AACCGATCCAAAGAGTTTCTCATGGAAAATTCTTAGGCAGCGGGCCTTTAGGAAGGGG
 ACCACAGACACGTTTGAGTTTGACAGCATCTACTTGGGGGACATTGCCTCCCTCTGTGTG
 GGCCACCTTGCCAGGGAAGACCGTTTATCCCCAAGAGAGAAGTTGCCTGGCATGTCAAG
 ACCATCACCATCACCGAGATGGAGTACGGCAATGTGTACTTCTTTAACTGTGACTGCCTC
 ATCCCCCTCAAGAGGAAGAGGAAGTACTTCAAGGTATTCGAGGTTACCAAGACGACAGAG
 AGCTTTGCCAGCAAGGTCCAGAGCCTGGTGCCCGTCAAGTACGAAGTCATCGTGACAACA
 GGCTATAGCCAGGGGAGGCACTGATGCCAACGTCTTCGTGACCATCTTTGGGGCCAAC
 GGAGACACAGGCAAGCGGAGCTGAAGCAGAAAATGCGCAACCTCTTCGAGCGGGGCAGC
 ACAGACCGCTTCTTCTGGAGACGCTGGAGCTGGGTGAGCTGCGCAAGGTGCGCCTGGAG
 CACGACAGCAGTGGCTACTGCTCAGGCTGGCTGGTGGAGAAGGTGGAGGTACCAACACC
 AGCACCGCGTGGCCACCATCTTCAACTGTGGCAGGTGGCTGGACAAGAAGCGGGGGGAT
 GGACTCACCTGGAGAGACCTCTTCCCTTCTGTC

Restriction Sites:	Please inquire
ACCN:	NM_144612
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_144612.6](#), [NP_653213.6](#)

RefSeq Size: 6854 bp

RefSeq ORF: 6636 bp

Locus ID: 125336

UniProt ID: [Q8IVV2](#)

Cytogenetics: 18q21.1

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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments and orthologous data.