OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC326387

PCDH15 (NM_001142770) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: PCDH15 (NM_001142770) Human Untagged Clone

Tag: Tag Free

Symbol: PCDH15

Synonyms: CDHR15; DFNB23; USH1F

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001142770, the custom clone sequence may differ by one or more nucleotides

ATGTTTCGACAGTTTTATCTCTGGACATGTTTAGCTTCAGGGATCATCCTGGGCTCTCTC
TTTGAAATCTGCTTGGGCCAGTATGATGATGATTGCAAACTAGCTAGGGGAGGACCACCA
GCTACCATAGTTGCTATTGATGAAGAAAGTCGGAATGGTACAATTCTGGTGGACAACATG
CTGATCAAAGGGACTGCTGGAGGACCAGACCCCACCATAGAACTTTCTTTAAAGGATAAT
GTGGATTACTGGGTGTTGATGGATCCTGTTAAGCAAATGCTTTTCCTGAACAGCACCGGA
AGAGTTCTGGATAGAGATCCACCGATGAACATACACTCCATTGTGGTGCAGGTCCAGTGC
ATCAACAAAAAAGTGGGCACTATTATCTACCATGAAGTGCGAATAGTGGTGAGAGACAGG
AATGACAACTCACCCACTTTCAAGCATGAAAGCTACTATGCCACAGTGAATGAGCTCACT
CCAGTTGGTACCACAATATTCACAGGATTTTCAGGAGACAATGGAGCTACAGATATAGAT
GATGGACCAAATGGACAGATAGAGTATGTTATTCAGTATAATCCAGATGATCCGACATCC
AATGACACCTTTGAAATTCCCCTAATGTTGACTGGAAATATAGTGTTAAGGAAGAGGCTC
AACTATGAAGATAAGACTCGCTACTTTGTCATAATCCAAGCTAATGACCGTGCCCAAAAT
CTGAATGAGAGGCGAACCACCACCACCACTCTCACAGTGGATGTTCTGGATGGAGATGAC
TTGGGTCCAATGTTTCTTCCTTGTGTCCTTGTGCCAAACACTCGTGATTGCCGTCCACTC
ACTTATCAAGCTGCCATACCTGAGTTGAGAACTCCGGAAGAACTGAACCCCATTATTGTT
ACGCCACCAATCCAAGCCATTGATCAGGACCGGAATATTCAACCGCCATCAGATAGGCCA
GGAATCCTCTATTCCATCCTTGTTGGGACTCCTGAGGATTACCCACGATTTTTCCATATG
CATCCTAGGACAGCAGAACTTAGTCTCCTGGAGCCAGTAAACAGAGACTTTCACCAGAAA
TTTGATTTGGTTATTAAGGCTGAACAAGACAATGGTCATCCTCTTCCTGCCTTTGCCGGT
CTACACATTGAAATACTGGATGAAAACAATCAAAGTCCATATTTTACAATGCCCAGTTAT
CAAGGCTATATCCTGGAATCTGCCCCAGTGGGAGCAACCATTTCGGACAGTCTCAATTTG
ACTTCACCTTTAAGAATAGTAGCTCTGGACAAGGACATAGAAGATACAAAAGACCCAGAG
CTTCACCTTTTTCTGAATGACTACACCTCAGTCTTCACCGTCACACAGACTGGTATTACT
CGCTACCTCACCTTACTTCAACCAGTGGACAGGGAAGAACAGCAAACTTACACCTTTTCG
ATAACAGCATTTGATGGTGTACAAGAAAGTGAGCCAGTCATCGTCAATATTCAAGTGATG
GATGCAAATGATAACACGCCAACCTTCCCTGAAATATCCTATGATGTGTATGTTTATACA
GACATGAGACCTGGGGACAGTGTCATACAGCTCACTGCAGTCGACGCAGACGAAGGGTCA
AATGGGGAGATCACATATGAAATCCTTGTTGGGGCTCAGGGAGACTTCATCATCAATAAA
ACAACAGGGCTTATCACCATCGCTCCAGGGGTGGAAATGATAGTCGGGCGGACTTACGCA

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CTCACGGTCCAAGCAGCGGATAATGCTCCTCCTGCAGAGCGAAGGAACTCCATCTGCACT
GTGTATATTGAAGTGCTTCCACCAAATAATCAAAGCCCTCCTCGCTTCCCACAGCTGATG
TATAGCCTTGAAATTAGTGAAGCCATGAGGGTTGGTGCTGTTTTATTAAATCTACAGGCA
ACTGATCGAGAGGGAGACTCAATAACATATGCCATTGAGAATGGAGATCCTCAGAGAGTT
TTTAATCTTTCAGAAACCACGGGGATTCTAACCTTAGGGAAAGCACTGGACAGGGAAAGC
ACTGATCGCTACATTCTGATCATCACAGCTTCAGATGGCAGGCCAGATGGGACCTCAACT
GCCACAGTAAACATAGTGGTGACAGATGTCAATGACAATGCTCCAGTGTTTGATCCTTAT
CTGCCAAGAAATTTATCTGTGGTGGAAGAAGAAGCCAATGCCTTTGTGGGTCAAGTAAAA
GCAACAGACCCTGATGCTGGAATAAATGGTCAAGTGCACTACAGTTTGGGTAACTTTAAT
AATCTTTTTCGTATCACATCCAATGGGAGCATTTACACAGCAGTGAAGCTTAACAGAGAA
GTCAGGGACTACTATGAACTTGTTGTTGTGGCAACAGATGGAGCAGTACACCCTCGTCAT
TCAACTCTAACCTTGGCCATCAAGGTTTTGGACATTGATGATAACAGTCCTGTGTTCACC
AATTCAACATACACTGTCCTTGTTGAAGAGAATTTGCCAGCTGGGACTACCATCCTTCAA
ATAGAGGCCAAAGATGTCGACCTTGGAGCAAATGTGTCTTACCGGATAAGAAGCCCAGAA
GTGAAGCACTTTTTTGCACTACATCCATTTACAGGAGAACTATCGCTTTTAAGGAGTTTA
GATTATGAGGCATTTCCAGACCAAGAAGCAAGTATCACTTTTCTGGTAGAGGCCTTTGAT
ATTTATGGAACAATGCCACCTGGTATTGCTACTGTCACAGTGATTGTAAAGGATATGAAT
GATTATCCTCCTGTCTTTAGTAAACGAATATACAAAGGGATGGTGGCTCCGGATGCAGTC
AAGGGTACACCTATCACAACAGTTTATGCTGAAGATGCAGACCCTCCTGGATTACCTGCA
AGTCGTGTGAGGTATAGAGTAGATGATGTACAGTTTCCTTACCCTGCCAGTATTTTTGAA
GTGGAAGAAGATTCTGGAAGAGTAATAACACGAGTCAATCTTAATGAAGAACCTACAACA
ATTTTTAAGTTGGTGGTGGTTGCTTTTGATGATGGGGAGCCTGTGATGTCCAGCAGTGCC
ACAGTGAAGATTCTTGTCTTACATCCTGGTGAGATCCCACGCTTCACACAGGAGGAAATAT
AGACCTCCTCCAGTAAGTGAACTTGCCACCAAAGGGACCATGGTTGGTGTAATTTCTGCT
GCTGCCATTAATCAAAGTATTGTGTACTCCATTGTTTCAGGAAATGAAGAAGATACATTT
GGAATTAATAACATCACAGGTGTTATCTATGTGAATGGACCTCTGGATTATGAGACCAGG
ACAAGCTATGTACTTCGAGTCCAAGCTGATTCCCTGGAAGTGGTCCTTGCCAATCTCCGA
GTTCCTTCAAAAAGCAATACAGCTAAAGTATACATTGAGATTCAGGATGAAAATAATCAT
CCCCCAGTGTTTCAGAAAAAATTCTACATCGGAGGTGTATCTGAAGATGCAAGAATGTTT
ACTTCTGTACTCAGAGTGAAGGCTACTGATAAAGATACTGGCAATTATAGTGTCATGGCC
TACAGACTCATAATACCACCAATTAAAGAGGGAAAAGAAGGATTTGTAGTGGAAACATAT
ACAGGGCTTATCAAAACTGCTATGCTCTTCCATAATATGAGGAGATCCTACTTCAAGTTT
CAAGTTATTGCAACTGACGACTATGGGAAGGGACTGAGCGGCAAAGCCGATGTACTCGTC
TCCGTGGTCAATCAGCTGGATATGCAAGTCATTGTTTCCAATGTGCCTCCTACTCTAGTG
GAAAAAAAGATAGAAGATCTTACAGAGATCTTGGATCGCTATGTTCAGGAACAAATTCCT
GGTGCCAAGGTCGTAGTGGAGTCCATTGGAGCTCGCCGGCATGGAGATGCCTTTTCCCTA
GAAGATTACACCAAATGTGACTTGACTGTCTATGCAATTGACCCCCAAACCAACAGAGCC
ATCGATAGAAATGAGCTTTTTAAATTTTTGGATGGCAAACTACTTGATATCAATAAAGAC
TTTCAGCCGTATTATGGGGAAGGAGGACGCATTCTGGAGATCCGGACTCCAGAGGCAGTG
ACCAGCATTAAAAAGAGAGGAGAAAGTCTAGGATACACAGAAGGGGCCTTGTTGGCTCTG
GCCTTCATCATCATCCTCTGCTGCATTCCTGCCATCTTGGTGGTTTTGGTCAGCTACAGA
CAGTTTAAAGTACGTCAAGCTGAGTGTACAAAGACTGCACGAATTCAGGCCGCATTACCC
GCGGCTAAACCAGCAGTGCCGGCTCCTGCACCAGTGGCAGCGCCCCCGCCGCCGCCGCCG
CCTCCGCCAGGTGCGCATCTCTATGAAGAACTTGGAGACAGCTCAATGCATAAGAATTAT
CCATGGAGTCTGGAATTGATCCTGGCCAGGAATATGGACAAGATTATTACAGTTATGAGC
ATGGGTATGAAATGCCTCAATATGGGAGTCGCCGTCGATTGTTACCACCAGCTGGACAGG
AGGAATATGGTGAGGTGGTTGGTGAAGCTGAGGAAGAATATGAGGAGGAAGAGGAAGAGC
CAAAGAAAATTAAAAAACCAAAGGTTGAAATTAGAGAGCCTAGTGAGGAGGAAGAAG

Restriction Sites: Please inquire

ACCN: NM_001142770

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_001142770.1, NP_001136242.1
RefSeq Size:	5803 bp
RefSeq ORF:	4620 bp
Locus ID:	65217
Cytogenetics:	10q21.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene is a member of the cadherin superfamily. Family members encode integral membrane proteins that mediate calcium-dependent cell-cell adhesion. It plays an essential role in maintenance of normal retinal and cochlear function. Mutations in this gene result in hearing loss and Usher Syndrome Type IF (USH1F). Extensive alternative splicing resulting in multiple isoforms has been observed in the mouse ortholog. Similar alternatively spliced transcripts are inferred to occur in human, and additional variants are likely to occur. [provided by RefSeq, Dec 2008] Transcript Variant: This variant (J) lacks an alternate in-frame exon in the 5' coding region and has a distinct 3' splice pattern, compared to variant A. The resulting isoform (CD2-2) lacks a 5-aa segment in the 5' coding region and has a distinct and longer C-terminus, compared to isoform CD1-1. 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.