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 RC226598

PCDH15 (NM_001142765) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH15 (NM_001142765) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDH15
Synonyms:	CDHR15; DFNB23; USH1F
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226598 representing NM_001142765 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTTCGACAGTTTTATCTCTGGACATGTTTAGCTTCAGGGATCATCCTGGGCTCTCTCTTTGAAATCT GCTTGGGCCAGTATGATGATGATTGCAAACTAGCTAGGGGAGGACCACCAGCTACCATAGTTGCTATTGA TGAAGAAAGTCGGAATGGTACAATTCTGGTGGACAACATGCTGATCAAAGGGACTGCTGGAGGACCAGAC CCCACCATAGAACTTTCTTTAAAGGATAATGTGGATTACTGGGTGTTGATGGATCCTGTTAAGCAAATGC TTTTCCTGAACAGCACCGGAAGAGTTCTGGATAGAGATCCACCGATGAACATACACTCCATTGTGGTGCA GGTCCAGTGCATCAACAAAAAAGTGGGCACTATTATCTACCATGAAGTGCGAATAGTGGTGAGAGACAGG AATGACAACTCACCCACTTTCAAGCATGAAAGCTACTATGCCACAGTGAATGAGCTCACTCCAGTTGGTA CCACAATATTCACAGGATTTTCAGGAGACAATGGAGCTACAGATATAGATGATGGACCAAATGGACAGAT AGAGTATGTTATTCAGTATAATCCAGATGATCCGACATCCAATGACACCTTTGAAATTCCCCTAATGTTG ACTGGAAATATAGTGTTAAGGAAGAGGCTCAACTATGAAGATAAGACTCGCTACTTTGTCATAATCCAAG CTAATGACCGTGCCCAAAATCTGAATGAGAGGCGAACCACCACCACCACTCTCACAGTGGATGTTCTGGA TGGAGATGACTTGGGTCCAATGTTTCTTCCTTGTGTCCTTGTGCCAAACACTCGTGATTGCCGTCCACTC ACTTATCAAGCTGCCATACCTGAGTTGAGAACTCCGGAAGAACTGAACCCCATTATTGTTACGCCACCAA TCCAAGCCATTGATCAGGACCGGAATATTCAACCGCCATCAGATAGGCCAGGAATCCTCTATTCCATCCT TGTTGGGACTCCTGAGGATTACCCACGATTTTTCCATATGCATCCTAGGACAGCAGAACTTAGTCTCCTG GAGCCAGTAAACAGAGACTTTCACCAGAAATTTGATTTGGTTATTAAGGCTGAACAAGACAATGGTCATC CTCTTCCTGCCTTTGCCGGTCTACACATTGAAATACTGGATGAAAACAATCAAAGTCCATATTTTACAAT GCCCAGTTATCAAGGCTATATCCTGGAATCTGCCCCAGTGGGAGCAACCATTTCGGACAGTCTCAATTTG ACTTCACCTTTAAGAATAGTAGCTCTGGACAAGGACATAGAAGATACAAAAGACCCAGAGCTTCACCTTT TTCTGAATGACTACACCTCAGTCTTCACCGTCACACAGACTGGTATTACTCGCTACCTCACCTTACTTCA ACCAGTGGACAGGGAAGAACAGCAAACTTACACCTTTTCGATAACAGCATTTGATGGTGTACAAGAAAGT GAGCCAGTCATCGTCAATATTCAAGTGATGGATGCAAATGATAACACGCCAACCTTCCCTGAAATATCCT

View online »

ATGATGTGTATGTTTATACAGACATGAGACCTGGGGACAGTGTCATACAGCTCACTGCAGTCGACGCAGA
CGAAGGGTCAAATGGGGAGATCACATATGAAATCCTTGTTGGGGCTCAGGGAGACTTCATCATCAATAAA
ACAACAGGGCTTATCACCATCGCTCCAGGGGTGGAAATGATAGTCGGGCGGACTTACGCACTCACGGTCC
AAGCAGCGGATAATGCTCCTCCTGCAGAGCGAAGCACGGGGATTCTAACCTTAGGGAAAGCACTGGACAG
GGAAAGCACTGATCGCTACATTCTGATCATCACAGCTTCAGATGGCAGGCCAGATGGGACCTCAACTGCC
ACAGTAAACATAGTGGTGACAGATGTCAATGACAATGCTCCAGTGTTTGATCCTTATCTGCCAAGAAATT
TATCTGTGGTGGAAGAAGAAGCCAATGCCTTTGTGGGTCAAGTAAAAGCAACAGACCCTGATGCTGGAAT
AAATGGTCAAGTGCACTACAGTTTGGGTAACTTTAATAATCTTTTTCGTATCACATCCAATGGGAGCATT
TACACAGCAGTGAAGCTTAACAGAGAAGTCAGGGACTACTATGAACTTGTTGTTGTGGCAACAGATGGAG
CAGTACACCCTCGTCATTCAACTCTAACCTTGGCCATCAAGGTTTTGGACATTGATGATAACAGTCCTGT
GTTCACCAATTCAACATACACTGTCCTTGTTGAAGAGAATTTGCCAGCTGGGACTACCATCCTTCAAATA
GAGGCCAAAGATGTCGACCTTGGAGCAAATGTGTCTTACCGGATAAGAAGCCCAGAAGTGAAGCACTTTT
TTGCACTACATCCATTTACAGGAGAACTATCGCTTTTAAGGAGTTTAGATTATGAGGCATTTCCAGACCA
AGAAGCAAGTATCACTTTTCTGGTAGAGGCCTTTGATATTTATGGAACAATGCCACCTGGTATTGCTACT
GTCACAGTGATTGTAAAGGATATGAATGATTATCCTCCTGTCTTTAGTAAACGAATATACAAAGGGATGG
TGGCTCCGGATGCAGTCAAGGGTACACCTATCACAACAGTTTATGCTGAAGATGCAGACCCTCCTGGATT
ACCTGCAAGTCGTGTGAGGTATAGAGTAGATGATGTACAGTTTCCTTACCCTGCCAGTATTTTTGAAGTG
GAAGAAGATTCTGGAAGAGTAATAACACGAGTCAATCTTAATGAAGAACCTACAACAATTTTTAAGTTGG
TGGTGGTTGCTTTTGATGATGGGGAGCCTGTGATGTCCAGCAGTGCCACAGTGAAGATTCTTGTCTTACA
TCCTGGTGAGATCCCACGCTTCACACAGGAGGAATATAGACCTCCTCCAGTAAGTGAACTTGCCACCAAA
GGGACCATGGTTGGTGTAATTTCTGCTGCTGCCATTAATCAAAGTATTGTGTACTCCATTGTTTCAGGAA
ATGAAGAAGATACATTTGGAATTAATAACATCACAGGTGTTATCTATGTGAATGGACCTCTGGATTATGA
GACCAGGACAAGCTATGTACTTCGAGTCCAAGCTGATTCCCTGGAAGTGGTCCTTGCCAATCTCCGAGTT
CCTTCAAAAAGCAATACAGCTAAAGTATACATTGAGATTCAGGATGAAAATAATCATCCCCCAGTGTTTC
AGAAAAAATTCTACATCGGAGGTGTATCTGAAGATGCAAGAATGTTTACTTCTGTACTCAGAGTGAAGGC
TACTGATAAAGATACTGGCAATTATAGTGTCATGGCCTACAGACTCATAATACCACCAATTAAAGAGGGA
AAAGAAGGATTTGTAGTGGAAACATATACAGGGCTTATCAAAACTGCTATGCTCTTCCATAATATGAGGA
GATCCTACTTCAAGTTTCAAGTTATTGCAACTGACGACTATGGGAAGGGACTGAGCGGCAAAGCCGATGT
ACTCGTCTCCGTGGTCAATCAGCTGGATATGCAAGTCATTGTTTCCAATGTGCCTCCTACTCTAGTGGAA
AAAAAGATAGAAGATCTTACAGAGATCTTGGATCGCTATGTTCAGGAACAAATTCCTGGTGCCAAGGTCG
TAGTGGAGTCCATTGGAGCTCGCCGGCATGGAGATGCCTTTTCCCTAGAAGATTACACCAAATGTGACTT
GACTGTCTATGCAATTGACCCCCAAACCAACAGAGCCATCGATAGAAATGAGCTTTTTAAATTTTTGGAT
GGCAAACTACTTGATATCAATAAAGACTTTCAGCCGTATTATGGGGAAGGAGGACGCATTCTGGAGATCC
GGACTCCAGAGGCAGTGACCAGCATTAAAAAGAGAGGAGAAAGTCTAGGATACACAGAAGGGGCCTTGTT
GGCTCTGGCCTTCATCATCATCCTCTGCTGCATTCCTGCCATCTTGGTGGTTTTGGTCAGCTACAGACAG
TTTAAAGTACGTCAAGCTGAGTGTACAAAGACTGCACGAATTCAGGCCGCATTACCCGCGGCTAAACCAG
CAGTGCCGGCTCCTGCACCAGTGGCAGCGCCCCCGCCGCCGCCGCCGCCTCCGCCAGGTGCGCATCTCTA
TGAAGAACTTGGAGACAGCTCAATGCATAATCTTTTCCTTCTCTACCATTTTCAACAAAGCAGGGGAAAT
AACTCAGTCTCAGAAGACAGGAAACATCAACAAGTTGTGATGCCCTTTTCTTCCAATACTATTGAGGCTC
ACAAGTCAGCTCATGTAGACGGATCACTTAAGAGCAACAAACTGAAGTCTGCAAGAAAATTCACATTTCT
ATCTGATGAGGATGACTTAAGTGCCCATAATCCCCTTTATAAGGAAAACATAAGTCAAGTATCAACAAAT
TCAGACATTTCACAGAGAACAGATTTTGTAGACCCATTTTCACCCAAAATACAAGCCAAGAGTAAGTCTC
TGAGGGGCCCAAGAGAAAAGATTCAGAGGCTGTGGAGTCAGTCAGTCAGCTTACCCAGGAGGCTGATGAG
GAAAGTTCCAAATAGACCAGAGATCATAGATCTGCAGCAGTGGCAAGGCACCAGGCAGAAAGCTGAAAAT
GAAAACACTGGAATCTGTACAAACAAAAGAGGTAGCAGCAATCCATTGCTTACAACTGAAGAGGCAAATT
TGACAGAGAAAGAGGAAATAAGGCAAGGTGAAACACTGATGATAGAAGGAACAGAACAGTTGAAATCTCT
CTCTTCAGACTCTTCATTTTGCTTTCCCAGGCCTCACTTCTCATTCTCCACTTTGCCAACTGTTTCAAGA
ACTGTGGAACTCAAATCAGAACCTAATGTCATCAGTTCTCCTGCTGAGTGTTCCTTGGAACTTTCTCCTT
CAAGGCCTTGTGTTTTACATTCTTCACTCTCTAGGAGAGAGACACCTATTTGTATGTTACCTATTGAAAC
CGAAAGAAATATTTTTGAAAATTTTGCCCATCCACCAAACATCTCTCCTTCTGCCTGTCCCCTTCCCCCT
CCTCCTCCTATTTCTCCTCCTTCTCCTCCTCCTGCTCCTGCTCCTCTTGCTCCTCCTCCTGACATTTCTC
CTTTTTCTCTTTTTTGTCCTCCTCCCTCTCCTCCTTCTATCCCTCTTCCTCTTCCTCCTCCTACATTTTT

TCCACTTTCCGTTTCAACGTCTGGTCCCCCAACACCACCTCTTCTACCTCCATTTCCAACTCCTCTTCCT
CCACCACCTCCTTCTATTCCTTGCCCTCCACCTCCTTCAGCTTCATTTCTGTCCACAGAGTGTGTCTGTA
TAACAGGTGTTAAATGCACGACCAACTTGATGCCTGCCGAGAAAATTAAGTCCTCTATGACACAGCTATC
AACAACGACAGTGTGTAAAACAGACCCTCAGAGAGAACCAAAAGGCATCCTCAGACACGTTAAAAACTTA
GCAGAACTTGAAAAATCAGTAGCTAACATGTACAGTCAAATAGAAAAAAACTATCTACGCACAAATGTTT
CAGAACTTCAAACTATGTGCCCTTCAGAAGTAACAAATATGGAAATCACATCTGAACAAAACAAGGGGAG
TTTGAACAATATTGTCGAGGGAACTGAAAAACAATCTCACAGTCAATCTACTTCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

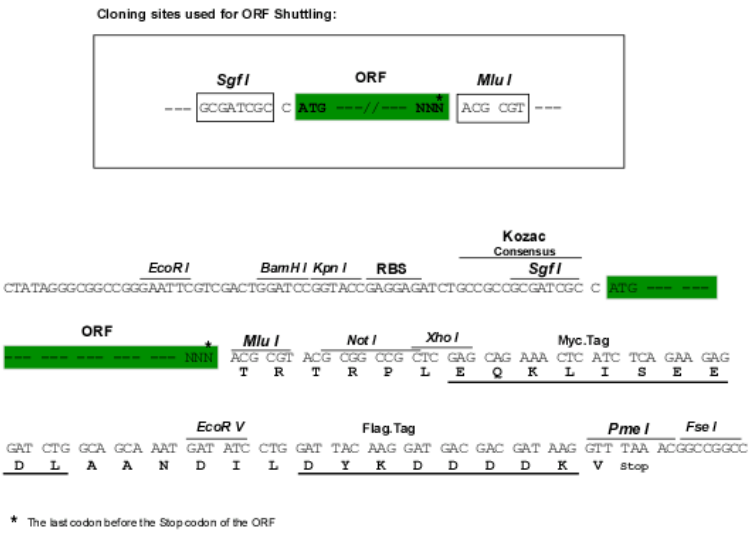
>RC226598 representing NM_001142765
Red=Cloning site Green=Tags(s)

MFRQFYLWTCLASGIILGSLFEICLGQYDDDCKLARGGPPATIVAIDEESRNGTILVDNMLIKGTAGGPD
PTIELSLKDNVDYWVLMDPVKQMLFLNSTGRVLDRDPPMNIHSIVVQVQCINKKVGTIIYHEVRIVVRDR
NDNSPTFKHESYYATVNELTPVGTTIFTGFSGDNGATDIDDGPNGQIEYVIQYNPDDPTSNDTFEIPLML
TGNIVLRKRLNYEDKTRYFVIIQANDRAQNLNERRTTTTTLTVDVLDGDDLGPMFLPCVLVPNTRDCRPL
TYQAAIPELRTPEELNPIIVTPPIQAIDQDRNIQPPSDRPGILYSILVGTPEDYPRFFHMHPRTAELSLL
EPVNRDFHQKFDLVIKAEQDNGHPLPAFAGLHIEILDENNQSPYFTMPSYQGYILESAPVGATISDSLNL
TSPLRIVALDKDIEDTKDPELHLFLNDYTSVFTVTQTGITRYLTLLQPVDREEQQTYTFSITAFDGVQES
EPVIVNIQVMDANDNTPTFPEISYDVYVYTDMRPGDSVIQLTAVDADEGSNGEITYEILVGAQGDFIINK
TTGLITIAPGVEMIVGRTYALTVQAADNAPPAERSTGILTLGKALDRESTDRYILIITASDGRPDGTSTA
TVNIVVTDVNDNAPVFDPYLPRNLSVVEEEANAFVGQVKATDPDAGINGQVHYSLGNFNNLFRITSNGSI
YTAVKLNREVRDYYELVVVATDGAVHPRHSTLTLAIKVLDIDDNSPVFTNSTYTVLVEENLPAGTTILQI
EAKDVDLGANVSYRIRSPEVKHFFALHPFTGELSLLRSLDYEAFPDQEASITFLVEAFDIYGTMPPGIAT
VTVIVKDMNDYPPVFSKRIYKGMVAPDAVKGTPITTVYAEDADPPGLPASRVRYRVDDVQFPYPASIFEV
EEDSGRVITRVNLNEEPTTIFKLVVVAFDDGEPVMSSSATVKILVLHPGEIPRFTQEEYRPPPVSELATK
GTMVGVISAAAINQSIVYSIVSGNEEDTFGINNITGVIYVNGPLDYETRTSYVLRVQADSLEVVLANLRV
PSKSNTAKVYIEIQDENNHPPVFQKKFYIGGVSEDARMFTSVLRVKATDKDTGNYSVMAYRLIIPPIKEG
KEGFVVETYTGLIKTAMLFHNMRRSYFKFQVIATDDYGKGLSGKADVLVSVVNQLDMQVIVSNVPPTLVE
KKIEDLTEILDRYVQEQIPGAKVVVESIGARRHGDAFSLEDYTKCDLTVYAIDPQTNRAIDRNELFKFLD
GKLLDINKDFQPYYGEGGRILEIRTPEAVTSIKKRGESLGYTEGALLALAFIIILCCIPAILVVLVSYRQ
FKVRQAECTKTARIQAALPAAKPAVPAPAPVAAPPPPPPPPPGAHLYEELGDSSMHNLFLLYHFQQSRGN
NSVSEDRKHQQVVMPFSSNTIEAHKSAHVDGSLKSNKLKSARKFTFLSDEDDLSAHNPLYKENISQVSTN
SDISQRTDFVDPFSPKIQAKSKSLRGPREKIQRLWSQSVSLPRRLMRKVPNRPEIIDLQQWQGTRQKAEN
ENTGICTNKRGSSNPLLTTEEANLTEKEEIRQGETLMIEGTEQLKSLSSDSSFCFPRPHFSFSTLPTVSR
TVELKSEPNVISSPAECSLELSPSRPCVLHSSLSRRETPICMLPIETERNIFENFAHPPNISPSACPLPP
PPPISPPSPPPAPAPLAPPPDISPFSLFCPPPSPPSIPLPLPPPTFFPLSVSTSGPPTPPLLPPFPTPLP
PPPPSIPCPPPPSASFLSTECVCITGVKCTTNLMPAEKIKSSMTQLSTTTVCKTDPQREPKGILRHVKNL
AELEKSVANMYSQIEKNYLRTNVSELQTMCPSEVTNMEITSEQNKGSLNNIVEGTEKQSHSQSTSL

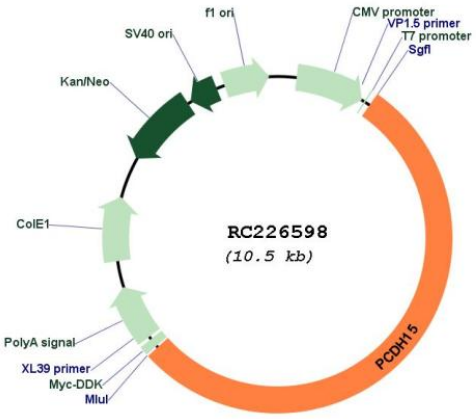
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142765

ORF Size: 5658 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_001142765.2
RefSeq ORF:	5661 bp
Locus ID:	65217
Cytogenetics:	10q21.1
Protein Families:	Druggable Genome, Transmembrane
MW:	208.36 kDa
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]