

## Product datasheet for **RG226748**

### PCDH15 (NM\_001142767) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH15 (NM_001142767) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDH15
Synonyms:	CDHR15; DFNB23; USH1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226748 representing NM_001142767 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCGACAGTTTTATCTCTGGACATGTTTAGCTTCAGGGATCATCCTGGGCTCTCTTTGAAATCT  
GCTTGGGCCAGTATGATGATGATTGCAAAGTAGCTAGGGGAGGACCACCAGCTACCATAGTTGCTATTGA  
TGAAGAAAGTCGGAATGGTACAATTCTGGTGGACAACATGCTGATCAAAGGGACTGCTGGAGGACCAGAC  
CCCACCATAGAAGTTCTTTAAAGGATAATGTGGATTACTGGGTGTTGATGGATCCTGTTAAGCAAATGC  
TTTTCTGTAACAGCACCAGGAAAGATTCTGGATAGAGATCCACCGATGAACATACTCCATTGTGGTGCA  
GGTCCAGTGCATCAACAAAAAGTGGGCACTATTATCTACCATGAAGTGCGAATAGTGGTGAAGACAGG  
AATGACAACCTCACCCACTTTCAAGCATGAAAGCTACTATGCCACAGTGAATGAGCTCACTCCAGTTGGTA  
CCACAATATTCACAGGATTTTCAGGAGACAATGGAGCTACAGATATAGATGATGGACCAATGGACAGAT  
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ACCACCACTCTCACAGTGGATGTTCTGGATGGAGATGACTTGGGTCCAATGTTTCTTCTGTGTCTTG  
TGCCAAACACTCGTGATTGCCGTCACCTCACTTATCAAGCTGCCATACCTGAGTTGAGAAGTCCGGAAGA  
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GTCATACAGCTCACTGCAGTCGACGCAGACGAAGGGTCAAATGGGGAGATCACATATGAAATCCTTGTTG  
GGGCTCAGGGAGACTTCATCATCAATAAAACAACAGGGCTTATCACCATCGCTCCAGGGGTGAAAATGAT  
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CCTGTCCCTTCCCCCTCCTCCTCTATTTCCTCCTTCTCCTCCTGCTCCTGCTCCTTCTGCTCC  
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 GAACAAAACAAGGGGAGTTTGAACAATATTGTCGAGGGAAGTGAACAAATCTCACAGTCAATCTACTT  
 CACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG226748 representing NM\_001142767  
 Red=Cloning site Green=Tags(s)

MFRQFYLWTLASGIILGSLFEICLGQYDDCKLARGPPATIVAIDEESRNGTILVDNMLIKGTAGGPD  
 PTIELSLKDNVDYVWMLDPVKQMLFLNSTGRVLDLDRPPMNIHSIVVQVQCINKKVGTTIYHEVRIVVRDR  
 NDNSTPFKHESYATVNELTPVGTITFTGFSGDNGATDIDDGPNQIEYVIQYNPDDPDRAQNLNERRTT  
 TTTLTVDVLDGDDLGPMLPCVLVPNTRDCRPLTYQAAIPELRTPEELNPIIVTPIQAIQDRNIQPPS  
 DRPGILYSILVGTPEYPRFFHMHPRTAELSLEPVNRDFHQKFDLVIAEQDNGHPLPAFAGLHIEILD  
 ENNQSPYFTMPSYQGYILESAPVGATISDSLNLTSPLRIVALDKDIEDTKDPELHLFLNDYTSVFTVTQT  
 GITRYLTLLQVPDREEQTYTFSITAFDGVQESEPVIVNIQVMDANDNTPTFPEISYDVVYVYDMRPGDS  
 VIQLTAVDADEGSNGEITYEILVGAQGDFIINKTTGLITIAPGVEMIVGRTYALTVQAADNAPPAERRNS  
 ICTVYIEVLPPNNQSPRRFPQLMYSLEISEAMRVGAVLLNLQATDREGDSITYAIEGNDPQRFVNLSETT  
 GILTLGKALDRESTDRYILIIITASDGRPDGTSTATVNIIVTDVNDNAPVDFPYLPRNLSVVEEANAFAVG  
 QVKATDPDAGINGQVHYSLGNFNLFRIITSNYSIYAVKLNREVRDYELVVVATDGAHVHRHSTLTLAI  
 KVLIDIDNNSPVFTNSTYTVLVEENLPAGTTILQIEAKDVLGANVSYRIRISPEVKHFFALHPFTGELSL  
 RSLDYEAFPDQEASITFLVEAFDIYGTMPPIATVTVIKMDNDYPPVFSKRIYKGMVAPDAVKGTPITT  
 VYAADADPPGLPASRVRYRVDDVQFPYASIFEVEEDSGRVITRVNLNEEPTTIFKLVVVAFDDGEPVMS  
 SSATVKILVHPGEIPRFTQEEYRPPVSELATKGMTVGVISAAAINQSIYVSIYVSGNEEDTFGINNITG  
 VIYVNGPLDYETRTSYVLRVQADSLEVLANLRVPSKSNATKAVYIEIQDENNHPPVFQKIFYIGGVSEDA  
 RMFTSVLRVKATDKDTGNYSVMAYRLIIPPIKEGKEGFVVEYTYGLIKTAMLFHNMRSYFKFQVIATDD  
 YGKGLSGKADVLVSVVNQLDMQIVSNVPPTLVEKKIEDLTEILDYVQEQIPGAKVVVVEIGARRHGDA  
 FSLEDYTKCDLTVYAIDPQTNRAIDRNELFKFLDGKLLDINKDFQPYGEGGRILEIRTPEAVTSIKKRG  
 ESLGYTEGALLALAFIIILCCIPAILVVLVSYRQQAECTKTARIQAALPAKPAVPAPVAAPPPPPP  
 PPPGAHLYEELGDSSILFLLYHFQQSRGNNSVSEDRKHQQVMPFSSNTIEAHKSAHVDGSLKSNKLSA  
 RKFTFLSDEDDL SAHNPLYKENISQVSTNSDISQRTDFVDPFSPKIQAKSKSLRGPREKIQRLWSQSVSL  
 PRRLMRKVPNRPEIIDLQQWQGTROKAENENTGICTNKRGSNPLLTTEEANLTKEEIRQGETLMIEGT  
 EQLKSLSSDSSFCFPRPHFSFSTLPTVSRTVELKSEPNVISSPAECSELELSPSRPCLVHSSLRRETPI  
 MLPDIETERNIFENFAHPPNISPSACPLPPPPPISSPPSPPAPAPLAPPPDISPFLFCPPPSPPSIPLPL  
 PPPTFFPLSVSTSGPPTPPLPPFPPLPPPPSIPCPPPPSASFSTECVCITGVKCTTNLMPAEIKS  
 SMTQLSTTTVCKTDPQREPKGILRHVKNLAELEKSVANMYSQIEKNYLRTNVSELQTMCPSEVTNMEITS  
 EQNKGSLNNIVEGTEKQSHSQSTSL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001142767.2</a>
<b>RefSeq Size:</b>	6901 bp
<b>RefSeq ORF:</b>	5748 bp
<b>Locus ID:</b>	65217
<b>Cytogenetics:</b>	10q21.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	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]