

Product datasheet for **MG227180**

Pcdh15 (NM_001142738) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdh15 (NM_001142738) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcdh15
Synonyms:	av; BB078305; ENSMUSG00000046980; Gm9815; nmf19; roda; Ush1f
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227180 representing NM_001142738 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTACAGTTTGCTGTCTGGAAGTGTACCCCATGGGATCCTCATTGCCTCTCTTGGTAGTCA
GCTGGGGCCAGTATGACGATGATTGCAAAGTAGCTAGGGGAGGACCACCAGCTACTATCGTGCCATTGA
TGAAGAGAGTCGAAACGGTACAATTCTGGTGGATAACATGTTGATTAAGGGGACTGCCGGAGGACCAGAC
CCCACCATAGAGCTCTTTAAAGGACAACGTGGACTACTGGGTGTTGCTGGACCCGTTAAACAGATGC
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AATGACAACCTCCCCACATTCAAGCATGAAAGCTACTATGCCACCGTGAATGAGCTCACTCCAGTTGGCA
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GTCATTACAGCTGACAGCGGTAGATGCTGATGAAGGCTCTAATGGGGAGATCTCCTATGAAATACTGGTGG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227180 representing NM_001142738
 Red=Cloning site Green=Tags(s)

MFLQFAVWKCLPHGILIASLLVSVWQYDDDKLARGPPATIVAIDEE SRNGTILVDNMLIKGTAGGPD
 PTIELSLKDNVDYVWLLDPVKQMLFLNSTGRVLD RPPMNIHSIVVQVQCVNKKVGTVIYHEVRIIVVRDR
 NDN SPTFKHESYATVNELTPVGTIIFTGFSGDN GATDIDDGPNQIEYVIQYNPEDPDRAQNLNERRTT
 TTTLTVDVLDGDDLGP MFLPCVLPNTRDCRPLTYQAAIPELRTPEELNPILVTPPIQAIDQDRNIQPPS
 DRPGILYSILVGTPEDYPRFFHMHPRTAELTLLEPVNRDFHQKFDLVIAEQDNGHPLPAFASLHIEILD
 ENNQSPYFTMPSYQGYILESAPVGATISESLNLTPLRIVALDKDIEDTKDPELHLFLNDYTSVFTVPT
 GITRYLTLQLPVDREEQTYTFLITAFDGVQESEPVV VNI RVM DANDNTPTFPEISYDVVYVYTDMSPGDS
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 ICTVYIEVLPNNQSPRFPQLMYSLEVSEAMRIGAILNLQATDREGDPITYAIE NGDPQRFVNLSETT
 GILSLGKALDRESTDYRILIVTASDGRPDGTSTATVNIIVTDVNDNAPVFDPYLPRNLSVVEEANA FVG
 QVRATDPDAGINGQVHYLSGNFNLFRI TSNGSIYAVKLNREARDHYELVVVATDGA VHPRHSTLTYI
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 RSLDYEAFPDQEASITFLVEAFDIYGTMPPIATVTVIKDMNDYPPVF SKRIYKGMVAPDAVKGTPITT
 VY AEDADPPGMPASRVRYRVDVQFPYPASIFDVEEDSGRVVTRVNLNEEPTTIFKLVVAFDDGEPVMS
 SSATVRI LVLHPGEIPRFTQEEYRPPVSELAARGTVVGVISAAA INQSIVYSIVAGNEEDKFGINNV TG
 VIYVNSPLDYETRYSYVLRVQADSLEVLANLRVPSKSN T AKVYIEIQDENHPPVFQK KFYIGGVSEDA
 RMFASVLRVKATDRDTGNYSAMAYRLIIPPIKEGKEGFV VETYTGLIKTAML FHNMRRSYFKFQVIATDD
 YGKGLSGKADVLVSVVNQLDMQVIVSNVPTLVEKKIEDL TEILD RYVQE QIPGAKVVVESIGARRHGDA
 YSLEDYSKCDLTVY AIDPQTNR AIDRNELFKFLDGKLLDINKDFQPY YGEGGRILEIRTPEAVTSIKKRG
 ESLGYTEGALLALAFIIILCCIPAILVVLVSYRQRQAECTKTARIQSAMPAAKPAAPVPAAPPPPPPP
 PPPGAHLYEELGESAILFLLYHFEQSRGNNSVPEDRSSH RDGMAFSSSTESHEPAHVEGPLKESQPNPA
 RTFSFVPDEDNLSTHNPLYMESIGQRSTNSDLQPR TDFEELLAPRTQVKSQSLRGPREKIQRVWNQSVSF
 PRRLMWKAPNRPETIDLVEWQITNQRAECESARCHPSQRGSSNVLLATEDAHESEKEGGHRDTLIVQQTE
 QLKSLSSGSSFSSSWSHFSFSTLPTISR AVELGSEPNVVTSPADCTLELSPPLRPRILNSLSSKRETPTC
 ASDTEPKRNSFEIAPHPPSISAPLPHPPLP RPPIAFTTFPLPLSPPNPPPQLVTFSLPISTPPTSSLPL
 PPPLSLPPPPRPAPRLFPQPPSTIPSTDSISAPAAKCTASATHARETTSTTQPPASNPQWGAEPHRHP
 KGILRHVKNLAELEKSVSNMYSHIEKNCPADPSKLHTFCPAEKTGMKITHDQSQETLVRVVEGIDVQPH
 SQSTSLS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_001142738.1 , NP_001136210.1
RefSeq Size:	8923 bp
RefSeq ORF:	5691 bp
Locus ID:	11994
UniProt ID:	Q99PJ1
Cytogenetics:	10 37.43 cM
Gene Summary:	Calcium-dependent cell-adhesion protein. Required for inner ear neuroepithelial cell elaboration and cochlear function. Probably involved in the maintenance of normal retinal function.[UniProtKB/Swiss-Prot Function]