

Product datasheet for **MR213908**

Pcdhb8 (NM_053133) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdhb8 (NM_053133) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdhb8
Synonyms:	Pcdhb5C; PcdhbH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR213908 representing NM_053133
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGACAGCGCTAACAAAAACGCCAGAGAAAAGGCAAGTCATTTTCCTTGCTATATTGTGCTTTTGT
GGGAGGCTAGTTCTGAGGCAATTAGCTATTCCATGCCAGAAGAAACGGAGAGTGGCTACTTGGTGGCTAA
CCTGGCACAAGATCTGGGGCTCAGGGTTGGGAACTGACCACTAGAGGGGCACGAATCCATCACAATGGT
AACAAAGAGCTCTTGAGCTTGTGAGAGAGAGGGAATTTGCTCCTGAAGGAAAAACCAGATCGCGAAG
CACTGTGTGGGGCAGAGAACCTGTGTGCTGCACTTCCAGATCATACTAGAAAACCTGTGCACTTCTT
TCAAACAGACTTGCACTTACAGATATAAACGACCATTTCCAGAGTTCCCTGACACAGAAATGCTCCTA
AAAATTCAAGAAATTGCCAGCCAGGGACTGTGTTTCTCTGAAGGCAGCTCAGGACCCTGACATAGGGA
GCAACGCTGTTCCAGAACTACACAGTCAGTCCCAACCTCCATTTCCATGTCGTTACTCTCAGTCGCTCAGA
TGACAGGAAATACCCAGAGCTGGTGTGGACAGAGCCCTGGACAGGGAGGAGCAGCTGAACTCACTTTA
ATCCTCACTGCTCTGGATGGCGGAGCTCCACCCAAGTCTGGGACAACCACTGTTCCGATTGAAGTCGTGG
ACATCAATGATAATGCCCCCAAGTTCTTACAGTCACTCTATGCGGTGGAGGTCCCTGAGAACAGTCCCT
CAATGCCTTAGTTGCACTGTCTCTGCCAGGGATTTAGATGCTGGGATACATGGCAATGTAGCCTACTCT
CTGTTTCAAGCGGGGGAGGTCTCAGCCATTTGTAATAGATGAAATCACAGGAGAAATTCGACTTAAAG
GGGCATTGGATTTTGAAGCAACTTCACTATAACCATGAAATTTAGCCACAGACAGTGGTGGTCTTTT
AGGAAATGCACTGTAGCTATCCAGGTGTTGGATGTGAACGACAATGCCCTAAACTCACCATATCTTCC
CTCACTAGTTCATCCCAGAAAATGCTCCGAGGCTGTAGTTGCTGTTTTCACTGTCTCTGACCCAGAT
CGGGGGACAATGGAAGGATGGTGTGTTCAATTCAGAACGACTTCCATTTCTTTTAAACCCACATCAA
GAATTTTACACCTTAGTCACGGAGAGACCCCTGGATAGAGAGAGCAACGCTGAGTACAACATCACAATC
ACGGTCTCTGACCTGGGCACACCAGGCTCACAACCCAGCACACCATAACAGTGCAAGTGTCCGACATCA
ACGATAATGCTCCTGCCTTCACTCAAACCTCTTACACCTTGTGTTTGTTCACGAGAACAACAGCCCTGCCCT
GCACATAGGCACCATCAGCGCCACAGACTCAGACTCTGGCTCCAATGGCCTTATTATCTACTCGTTGCTG
CCGCCCATGACCAGCAGCTGGGCTTGCCTCGCTGATCTCCATCAACTCAGACAACGGGCAGCTGTTT
CGCTCAGGGCGCTGGACTACGAGGCCCTGCAGGCCTTCGAGTCCACGTGGGCGCCACAGACAGAGGCTC
GCCCGGCTCAGCTCAGAGGCTCTGGTGCCTGTAGTGGTCTGGATGACAATGACAATGCGCCCTTCGTG
CTTACCCACTGCAAAACGCTTCTGCGCCCTGCACTGAGCTGCTGCCAGGGCTGCGGAGCCTGGCTACC
TGATACCAAGGTGGTGGCAGTGGACCCGACTCTGGCCAGAATGCCTGGCTGTCATTCCAGCTGCTCAA
GGCCACAGAGCCCGGGCTGTTACAGCTGTGGGCGCACAATGGCGAAGTGGCACCACCAGGCTGCTGAGC
GAGCGAGATGCACCAAGCACAGGCTGCTGCTGGTCAAGGACAATGGAGAGCCTCTGCGCTCTGCTA
GTGTATGCTGCAGGTGCTAGTGGTGGATGGCTTCTCTCAGCCCTACCTGCCTCTGCCAGAGGTGGCGCT
CAACCCACACAGGAAGAAGACATGCTCACTCTATCTGTTTATTGCCTTGGCTTCTGTGCTTCACTT
TTCTCTTGTCTGTGCTGCTGTTTGTGGGGTGAAGTTGTGCAAGAAGGCCAGGGAGGCTTCTCTGGCTG
ACTGCTTATTCTGAGGGACACTTTCTAGCCACTTGGTGGATGTCAGTGGTGGGGACCTTATCCCA
GAGTTACCATTATGAGGTCTGTCTGACTGAGGACTCTGGGACCTCAGATTTCAAGTTCATGAACCCATT
ATTCTAGTAGTCTCCTCAGGACTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR213908 representing NM_053133
Red=Cloning site Green=Tags(s)

METALTKTPEKRQVIFLAILLLLWEASSEAISYSMPPEETESGYLVANLAQDLGLRVGELTTRGARIHNG
NKELLQLDAERGNLLKKEKPDREALCGATEPCVLHFQIILENPVQFFQTDLQFTDINDHFPEFPDTEMLL
KIQEIAQPGTVFPLKAAQDPDIGSNAVQNYTVSPNLHFHVVTLSRSDDRKYPELVLDRALDREEQPELTL
ILTALDGGAPPKSGTTTTVRIEVDINDNAPQLQSLYAVEVPENSPLNALVVTVSARDLDAGIHGNVAYS
LFQGGGGPQPFVIDEITGEIRLKGALDFEATSYTMEIVATDSGGLSGKCTVAIQVLDVNDNAPKLTISS
LTSSIPENAPEAVVAVFSVSDPDSGDNGRMVCSIQNGLPFLLKPTFKNFYTLVTERPLDRESNAEYNITI
TVSDLGTPRLTTQHTITVQVSDINDNAPFTQTSYTLFVHENNSPALHIGTISATSDSDSGSNGLIIYSL
PPHDQQLGLASLISINSDNGQLFALRALDYEALQAFEFHVGATDRGSPALSSEALVRVVVLDNDNAPFV
LYPLQNASAPCTELLPRAAEPGYLITKVAVDRDSGQNAWLSFQLLKATEPGLFSVWAHNGEVRTTRLLS
ERDAPKHRLLLLVKDNGEPLRSASVMLQVLVVDGFSQPYLPLPEVALNPTQEEDMLTLYLVIALASVSSL
FLLSVLLFVGKLCCKKAREASLADCSIPEGHFPSHLVDVSGAGTLSQSYHYEVCLTEDSGTSDFKFMNPI
IPSSLLQDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_b02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_053133

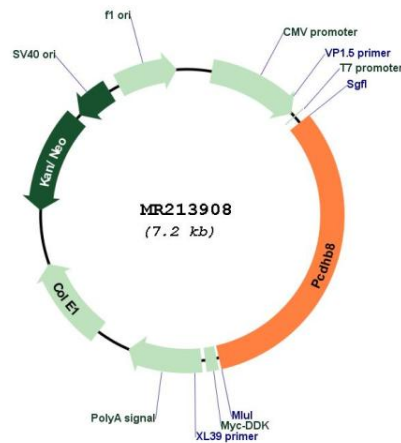
ORF Size: 2337 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_053133.1</u> , <u>NP_444363.1</u>
RefSeq Size:	2340 bp
RefSeq ORF:	2340 bp
Locus ID:	93879
UniProt ID:	<u>Q91XZ2</u>
Cytogenetics:	18 B3
MW:	85.2 kDa
Gene Summary:	Calcium-dependent cell-adhesion protein involved in cells self-recognition and non-self discrimination (Probable). Thereby, it is involved in the establishment and maintenance of specific neuronal connections in the brain (PubMed:27161523).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR213908