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 RC224130

PCDHB6 (NM_018939) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB6 (NM_018939) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHB6
Synonyms:	PCDH-BETA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224130 representing NM_018939
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGCAAACTAAAGTACAGAACAAGAAAAGGCAAGTGGCTTTCTTCATTTTATTGATGCTTTGGGGAG
AGGTGGGTTCTGAATCGATTCAGTATTCCGTATTGGAGGAGACAGAAAGTGGCACGTTTGTGGCCAACTT
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CAGGAAGTTCCCGGAGCTGGTGCTAGACAAACCGTTGGACCGCGAGGAGCAGCCCCAACTCAGGCTAACG
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CATCGGCAGCGTCAGCGCCACAGACAGAGACTCAGGCATCAACGCCCAGGTCACCTACTCGCTGCTGCCG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC224130 representing NM_018939
Red=Cloning site Green=Tags(s)

MMQTKVQNKKRQVAFFILLMLWGEVGSESIQYSVLEETESGTFVANLTKDLGLRVGELASRGARVVFKGN
RQHLQFDPQTHDLLLNEKLDREELCGSTEPCVLPFQVLLENPLQFFQASLRVRDINDHAPEFPAREMLLK
ISEITMPGKIFPLKMAHDLDTGSNGLQRYTISSNPHFHVLTRNRSEGRKFPELVLDKPLDREEQPQLRLT
LIALDGGSPPRSGTSEIQIQILDINDNVPEFAQELYEAQVPENNPLGSLVITVSARDLDAGSFGKVSYAL
FQVDDVNQPFEINAITGEIRLRKALDFEEIQSYDVDVEATDGGGLSGKCSLVVRVLDVNDNAPELTMSFF
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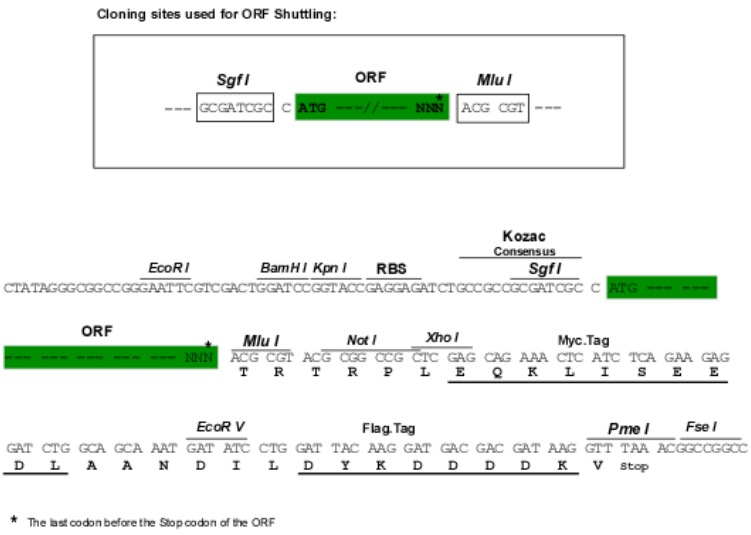
VTDLGTPRLKTQQSITVQVSDVNDNAPAFTQTSYTLFVRENNSPALHIGSVSATDRDSGINAQVTYSLLP
PQDPHLPLSSLVSINADNGHLFALRSLDYEALQSFEFRVGATDRGSPALSSEALVRLLVLDANDNSPFVL
YPLQNGSAPCTELVPRAAEPGYLVIKVVAVDGDSGQNAWLSYQLLKATELGLFGVWAHNGEVRTARLLSE
RDAAKQRLVVLVKDNGEPPRSATATLHVLLVDGFSQPYLPLPEAAPAQAQADSLTVYLVVALASVSSLFL
FSVLLFVAVRLCRRSRAASVGRYSVPEGPFPGHLVDVSGTGTLSQSYQYKVCLTGGSETNEFKFLKPIMP
NFPPQGTEREMEETPTSRNSFPFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6170_h03.zip

Restriction Sites: SgfI-MluI

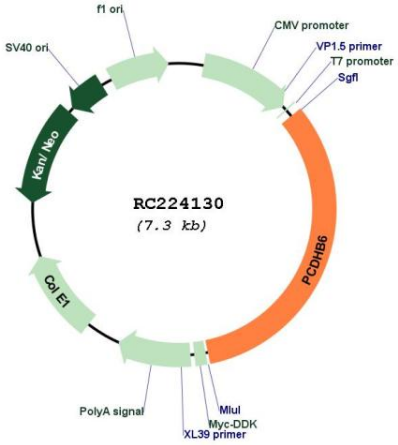
Cloning Scheme:



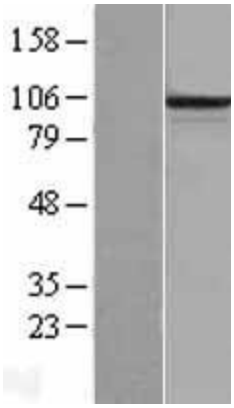
ACCN:	NM_018939
ORF Size:	2382 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_018939.3
RefSeq Size:	3030 bp
RefSeq ORF:	2385 bp
Locus ID:	56130
UniProt ID:	Q9Y5E3
Cytogenetics:	5q31.3
Domains:	CA
Protein Families:	Transmembrane
MW:	84.1 kDa
Gene Summary:	This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. Unlike the alpha and gamma clusters, the transcripts from these genes do not share common 3' exons. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell neural connections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC224130



Western blot validation of overexpression lysate (Cat# [LY402714]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224130 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).