

Product datasheet for **SC314977**

PCDHA13 (NM_018904) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA13 (NM_018904) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHA13
Synonyms:	CNR5; CNRN5; CNRS5; CRNR5; PCDH-ALPHA13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC314977 representing NM_018904.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGTCTTCTGGCAAGGAGGCCAAGACCCGGCAACTACTGCTCTGGCTTCTGATCCTCGCAGCC
TGGGAGACGGGTAGTGGCCAGCTCCACTACTCCGTCGCCGAGGAAGCAAAACACGGCACCTTCGTGGGC
CGCATCGCTCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCCGCGCCTGTTCCGGGTGGCGTCCAAA
AGACACGGGGACCTTCTGGAGGTAATCTGCAGAAATGGCATTGTTTGTGAATTCTCGGATCGACCGC
GAGGAGCTGTGTGGGCGGAGCGGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCTCTGCAG
GTTTTCCATGTGGAGGTGAAGGTGAGGGACATTAACGACAACCCGCCATATTCCCTGAAAGCAAGAAA
CGAATAATCATTGCAGAACTAGACCTCCGAAACTCGATTTCCACTAGATGGCGCATCCGATGCAGAT
ATTGGAGTAAACTCGGCATTGACCTACCGACTGGATCCCAACGATTATTTCACTTTGGACGCACAAAAC
AGTCTTGAGCAAATGTCTTCATTATCACTTGTACTGAGGAAAACACTGGACAGAGAGGAAATTCAGGAA
CATAGTTTATTACTGACAGCCAGTGATGGAGGTAACCCGAGCTGACTGGCACAGTTCAGCTGCTCATC
ACGATTCTGGACGTGAATGACAACGCCCGGAATTTACCAATCCGTTTATAAAGTGACGGTGTAGAG
AACGCCTTCAATGGAACATTAGTGATCAAGCTAAATGCCACAGATCCTGATGATGGTACAATGGAGAT
ATAGTTTACTCATTTAGAAGGCCTGTATGGCCTGCAGTGGTATATGCATTTACCATAAATCCGAACAAT
GGAGAAATTAGGACAAAAGGCCAACTAGATTTGAAAGAAAAGAAATATATGAAATATCCGTGGAGGCA
GTTGACAAAGGAAATATCCAAATGGCGGGTCATTGTACCTTTTGGTGGAAAGTACTAGATGTAATGAT
AACGCCCCAGAGGTTACCATCACTTCTTTGTCACTCCCCATCAGAGAAGACACTCAGCCTAGCGCCATT
ATTGCCCTAATCAGTGTGTCCGATCGTGACTCTGGCTCAAATGGACAGGTCACTGCACCTTGACGCCG
CATGTCCCCTTCAAGCTGGTGTCCACTACAAGAACTACTACTCATTAGTGTGGACAGGCCCTGGAC
CGCGAGAGCGTATCAGCCTATGAACTGGTGGTGACCGCGGGGACGGGGGCTCGCCTTCGCTGTGGGCC
ACGGCCAGCGTGTGCGTGGGGTGGCCGACGTGAACGACAACGCCCGGGCTTCGCGCAGCCGAGTAC
ACGGTGTTCGTGAAGGAAAACAATCCGCCGGGCTGCCACATCTTCACGGTGTCTGCTCAGGACGCGGAC
GCACAGGAGAACGCGCTGGTCTCCTACTCGCTGGTGGAGCGGGGGTGGGCGAGCGTGCCTGTGAGC
TACGTGTGCGTGCACGCGGAGAGCGCAAGGTGTACGCGTGCAGCCGTTGGACCAGGAGGCTGGAG
CTGTTGCAGTTCAGGTGAGCGCGCGACTCTGGCGTCCCGCTCTGGCAGCAACGTGACGCTGCAG
GTGTTGCTGCTGGACGAGAACGACAACGCTCCGGCGTGTGACGCCGGGGCTGGCAGCGCGGGAGGC
ACAGTGAGCGAGCTGATGCCGCGTCCGGTGGTGCAGGCCACGTGGTGGGAAGGTGCGCGCGGTGGAC
GCCGATTCGGGCTACAATGCGTGGCTTTGATGAATTGCAGCTGGCGGGGTGGCGCGCGCATCCCG
TTCCGCGTGGGGCTGTACTGCGGAGATCAGCACGACGCGCCCTCTGGACGAGGTGGACGCGCCGAC
CACCGCCTTCTGGTGTGGTGAAGGACCAGGTGAGCCCGCGCTGACGGCCACGGCAACGGTGTGTTG
TCGCTGGTGGAGAGCGGCAAGCGCCACAGGCTTCGTGAGGGGCTCGGCAGGCGCTGTGGTCCAGAA
GCGGCGCTGGTGGATGTCAATGTTTACTTGATCATTGCCATCTGCGCGGTGTCCAGCCTGTTGGTGTCTC
ACGTTGCTGTGTATACTGCGTGGGTGCTCGGCACCGCCACCGAGGGCGCGTGGCGCCGGGCAAG
CCCCTCTAGTGTGCTCCAGCGCGGAGGGAGTTGGTTCGACTCGCAGCAGAGGGCGCGAGGGTGTGC
TCTGGGAGGGCCGCATAAAGACGGACCTCATGGCCTTCAGTCCAGCCTTCTCCTTGTCTGGGTTCT
GCAGAGGGAACAGGCCAGAGGGAGGAGGACTCAGAATGCTTGAAGAGCCACGACAGCCCAACCCTGAC
TGGCGTACTCTGCCTCCCTGAGAGCAGGCATGCACAGCTCTGTGCACCTAGAGGAGGCTGGCATTCTA
CGGGCTGGTCCAGGAGGCGCTGATCAGCAGTGGCCAACAGTATCCAGTGCAACACCAAGAACCAGAGGCA
GGAGAAGTGTCCCTCCAGTCCGGTGCGGGTGTCAACAGCAACAGCTGGACCTTTAAATACGGACCAGGC
AACCCCAAACAATCCGGTCCCGGTGAGTTGCCGACAAATTCATTATCCAGGATCTCCTGCAATCATC
TCCATCCGGCAGGAGCCTACTAACAGCCAAATTGACAAAAGTGACTTCATAACCTTCGGCAAAAAGGAG
GAGACCAAGAAAAAGAAGAAAAAGAAGGGTAACAAGACCCAGGAGAAAAAGAGAAAGGGAACAGC
ACGACTGACAACAGTGACCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

ACCN:	NM_018904
Insert Size:	2853 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_018904.2</u>
RefSeq Size:	5260 bp
RefSeq ORF:	2853 bp
Locus ID:	56136
UniProt ID:	<u>Q9Y5I0</u>
Cytogenetics:	5q31.3
MW:	102.5 kDa

Gene Summary:

This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. 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 connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) includes the constant region exons and encodes the longest isoform (1).