

Product datasheet for SC102125

PCDH10 (NM_032961) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH10 (NM_032961) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDH10
Synonyms:	OL-PCDH; PCDH19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC102125 sequence for NM_032961 edited (data generated by NextGen Sequencing)

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ATGATTGTGCTATTATTGTTTGCCTTGCTCTGGATGGTGAAGGAGTCTTTTCCAGCTT
CACTACACGGTACAGGAGGAGCAGGAACATGGCACTTTCTGGGGAAATATCGCTGAAGAT
CTGGGTCTGGACATTACAAAACCTTCGGCTCGCGGGTTTCAGACGGTGCCCAACTCAAGG
ACCCCTTACTTAGACCTCAACCTGGAGACAGGGGTGCTGTACGTGAACGAGAAAATAGAC
CGCGAACAAAATCTGCAACAGAGCCCTCCTGTGTCTGCACCTGGAGGTCTTTCTGGAG
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CCGCGTTTCAGCCAGCCGGTCTACGACGTGTATGTGACTGAAAACAACGTGCCTGGCGCC
TACATCTACGCGGTGAGCGCCACCGACCGGGATGAGGGCGCCAACGCCAGCTTGCCTAC

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TCTATCCTCGAGTGCCAGATCCAGGGCATGAGCGTCTTACCTACGTTTCTATCAACTCT
 GAGAACGGCTACTTGTACGCCCTGCGCTCCTTCGACTATGAGCAGCTGAAGGACTTCAGT
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 AACATCCTCATAGTGGATCAAAATGACAACGCCCTGCCATCGTGGCGCCTTACCAGGG
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 TCCACCTTTGGCAAAGAGAAGGCCCTTACAGCACTCTGGAGAGGAAGGAGCTGGATGGA
 CTGCTGACTAATACGCGAGCGCCTTACAAACCACCATATTTGACACGGAAAAGGATATGC
 TAG

Clone variation with respect to NM_032961.1

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032961 unedited
 AGCATTTTGTAAATACGACTCACTTATAGGGCGCCGCGATTTCGGCACGAGGCACAGGCTC
 AGAGGCTGAAGCAGGAGGAAGGAAGGACTATTAAGGAAAAAGAGACAGGTTAGAGGGAAA
 GAGGCTTGGGAAGAAACAGCAGAAAAGAACTGCTCATTACACTTACAGAGAGGCAAGTA
 ACGGTGGAGATGAGGACAGAGGGAACCAAGACTCTGAAAGACAAAAAATACAAATAGAGC
 GAAAGAGGAAAAAATGTCAAGAAGAACATCCATCCGGAGAAATGAAGAGAATGAAAGTT
 TTAAGCTGCAGAGCCGTTCTGTGCTTTTCCGGCACAAAATTATATCGCTGATTTTAAGCC
 CTTTTGCATTTGCCAGCGTTGACATTAAGAGGCATGTTTAACGGTGCCAACAGCATCTC
 CTTTTCTTCTCCTTCTCCTTCTTCTTCTTCTCCTCCTCCTCCTCCTTTTTCTCCTCCT
 CTCGTTCTCCTCCATCAGCAAGAAGACAAACCGAGGACAGTCTTGAAATATCGAAATTT
 CCTCTTTGGGATTTGCCAGCGCAAGACTGTCCGAATAAAGGACGCTGACTATTGTATTA
 TTGGTATTTTATTAATTAGTCAGTGGAAAGATTACAGATGAGGAAAGGGGACGCCTGTCA
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 AGCAAAAGGAGTAAGATTTTAAAGACAGAAAGCCACAGGAGCCCCACGTAGCGCACTC
 TTATTTGNATTTTTTTCAGAAATTTTTTTGTTTTCTGGTGGTGGNGGAGTGATATGGGTNT
 GGCTGACTGCCTGCCGAAACTACTTCTTTCTTTTGGAGAGATTGNGCTATTATGTTTG
 CCTGCTCTGATGGNGGAAGGATCTTTTCCACTTCTACCGNACAGGAGAGCAGAACATGC
 CT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032961 unedited GACCGCGCCCGCNATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTAAATATATATATTTCTC ATTTATCCAGAAGCTTTGAAATAGTACAGTAAACACTTTGCAACACGGTGTATAAACTAC AGAATGTCTTTGATATTTTGTGGGTCTTCAGAATACAACATTTTTATAACCCACAGGCG AAAAGAACATAATCACAATTTCTTTGTAAGTTGGAATAGCTTGCAGAACACTTGATCA CACACAAATACCATAAAACAGTCAAGTTTAAACAGTGATATTGCATCTATAATGCACAC ATCTACTTTATCTTTATGACTGCCTTCCCTCGTGGTGAATATAAACATCTAATGGGCTCAC TGACATTCGAGAGAGAACGACGACCGCGCTGCCACAGGTCCATCTTGATCGTGGGGCC ACCATTGCCCCCTAAAGTTCCCTCCGGGCGCCAATTTCAACTCATTCCCTCACGCTGT TGACAGCTCCACGTTTTACAACCGTCCCTGCCGCCCTTCCGCAATTAATCCTTACT CCCCATGATCTACTTGCCCCGNTCTTTATCTCCCCCGTACCTTTTCCCTTTTTTTTCC CCCTCTGCGTCTATCATCGCCCCCGTCCCCCTGTTCTATTCCCCCCCCTCTCT CCCCCTCCAATTCCTGCCCTCCCGCTTCCATCTCATCCACCCTCCTTTCCCCCTC CCCCCCCCAATTTCTCCGTTCTCCCTTCTCCCCCGCTTATCCACCCTCCCA CATTCTTCCCTTTTTTATCCCACTTCTCCCTTTTCCACGCGCTCCCCGTCCTCC CCCCCTTCCCCCTCTCCCTTCTTCCCACTTTTTACCCCTTCTCCTTCTCCTCACCC CCATCATCCCCGCTTTCTTTTCCCGAGCCCGCCCTCCTCTCCCTCCCTTCTCCCTCC CGTCCCTCCCCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_032961
Insert Size:	5270 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).
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_032961.1</u> , <u>NP_116586.1</u>
RefSeq Size:	5384 bp
RefSeq ORF:	3123 bp
Locus ID:	57575
UniProt ID:	<u>Q9P2E7</u>
Cytogenetics:	4q28.3
Domains:	CA

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. This family member contains 6 extracellular cadherin domains, a transmembrane domain and a cytoplasmic tail differing from those of the classical cadherins. The encoded protein is a cadherin-related neuronal receptor thought to function in the establishment of specific cell-cell connections in the brain. This gene plays a role in inhibiting cancer cell motility and cell migration. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).