

Product datasheet for **SC303069**

P cadherin (CDH3) (NM_001793) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P cadherin (CDH3) (NM_001793) Human Untagged Clone
Tag:	Tag Free
Symbol:	P cadherin
Synonyms:	CDHP; HJMD; PCAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001793 edited

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GGCTAGCGCGGGAGGTGGAGAAAGAGGCTTGGGCGGCCCGCTGTAGCCGCGTGTGGGAG
GACGCACGGGCTGCTTCAAAGCTTTGGGATAACAGCGCCTCCGGGGGATAATGAATGCG
GAGCCTCCGTTTTTCAGTCGACTTCAGATGTGTCTCCACTTTTTTCCGCTGTAGCCGCAAG
GCAAGGAAACATTTCTCTTCCCGTACTGAGGAGGCTGAGGAGTGCACTGGGTGTTCTTTT
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CCCACCTGCGCTCACCTGGCCTCTCCGCTGGCTCCCGGGGGCTGCGGTGCTCAAAGGG
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GAATGCAGTGGGCCATGAGGTGCAGAGGCTGACGGTCACTGATCTGGACGCCCCAACTC
 ACCAGCGTGGCGTGCCACCTACCTTATCATGGGCGGTGACGACGGGGACCATTTTACCAT
 CACCACCCACCCTGAGAGCAACCAGGGCATCCTGACAACCAGGAAGGTTTGGATTTTGA
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 TCTGCGTTTTTATACTGAGTGTGCTAGGTTGCCCTTATTTTTTATTTTCCCTGTTGCG
 TTGCTATAGATGAAGGTGAGGACAATCGTGTATATGTACTAGAAGTATTTTATTAAAGA
 AACTTTTCCCAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001793 unedited</p> <p>NNAAGTTATATTTGTATACCATCATATAGGCGGCCGCATAACTTCGTATAGCATACATTA TACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGCTAGC GCGGGAGGTGGAGAAAGAGGCTTGGGCGGCCCGCTGTAGCCGCTGTGGGAGGACGCAC GGGCTGCTTCAAAGCTTTGGGATAACAGCGCCTCCGGGGGATAATGAATGCGGAGCCTC CGTTTTAGTCGACTTCAGATGTGTCTCCACTTTTTTCCGCTGTAGCCGAAGGCAAGGA AACATTTCTCTTCCCGTACTGAGGAGGCTGAGGAGTGCACTGGGTGTTCTTTCTCTCT AACCAGAACTGCGAGACAGAGGCTGAGTCCCTGTAAAGAACAGCTCCAGAAAAGCCAGG AGAGCGCAGGAGGCATCCGGGAGGCCAGGAGGGTTCGCTGGGCGCTCAACCGACCCA CATCGGTCCACCTGCGAGGGGGCGGGACCTCGTGGCGCTGGACCAATCAGCACCCACCT GCGCTACCTGGCTCTCCCGTGGCTCCCGGGGCTGCGGTGCTCAAAGGGGCAAGAG CTGAGCGGAACACCGGCCCGCGTCCGCGCAGCTGCTTACCCCTCTCTGTCAGCCATG GGGCTCCCTCGTGGACCTCTCGGTCTCTCTCTCTCCAGTTTGTGGCTGCAGTGC GCGGCCTCCGAGCCTGCCGGGCGGTCTTCAAGGAGGCTGAAGTGACCTGAAGGCGGAA GGCCCCGAACAAGAACC CGGCCAAGCGCTGGGAAAGTATTCATGGGCTTGCCTGGGCA AAACCCACTTTGTTTACCACTGAAAAGATGAACTCCCTGGGCCGAATGGCAAGCCGTCCC AGAAAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001793 unedited</p> <p>NCATCGTGAGGTACTTGACAGGCCAGAGAGCACTGGGGAGGGTCACAGGTGCCCCGGATC TGTTAGAAAAGCTATGACCGCGCCGCAATCTAGAGTCGACAAGCTTGATATCGGTACCG GGCCCCCCTCGAAGGATCAGGCCCTTATGGCCGGATCCAGCGCTGGAGAGTTTTTTTTT TTTTTTTGGGAAAAGTTTCTTTAATAAAAAAGTTCTAGTACATATACAGATTGTCCTCA CCCTTCATCTATAGCAACGCAACAGGGAAAATAAAAAATAAGGGGCAACCTAGGCACACT CAGTATAAAAAACGAGAGATCCATCCGAATGGGAGGCATTGGGGTCTGGAACCAGAAAT GCAGGACGGCCAGTGGGCCCAGCAGCTCTGGGCTGCACTTTTGAAGAAGTTTCTTAACG TTTTGAAGATAGCATTAAAAAATAAAGTTGCACCAGGAGGCCTAAGAAGGTTCCA TTCCAGAGAGAAAAGTCCACTGTAGGTCACTCACAGCAGGCCAGGCCAGGACACAGGGT TGAGCATTTTACGGCAGGTAAGAGGCTTCTGGAACCTTGCCCTCTGAGGCAACCTTGCC CAAGTGGAGAGGTTTTAGTGCTGAAGTCAAACTGCCAATTCCTCCATCCTGGAAGGCT AAAGAAACAACCACTCTAACGTCAGACTCATAGCTGTCTCCGCCAAGTTGCTACCGCCA CTTCTGACAAGCTTCGAAGTCTTAGCTGAAGGGGAACTGAGACCCCTTGGAATGC TCTGTGCCCTGACCTTTTATCCCAACCCCTGGAGGCCGCGCCTTAATCTCT</p>
Restriction Sites:	Please inquire
ACCN:	NM_001793
Insert Size:	3700 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:	There are 9 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 amino acid.
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_001793.3, NP_001784.2</u>
RefSeq Size:	3649 bp
RefSeq ORF:	2490 bp
Locus ID:	1001
UniProt ID:	<u>P22223</u>
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
Gene Summary:	<p>This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. This gene is located in a gene cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene are associated with hypotrichosis with juvenile macular dystrophy and ectodermal dysplasia, ectrodactyly, and macular dystrophy syndrome (EEMS). [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>