

Product datasheet for SC114227

PCDH12 (NM_016580) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PCDH12 (NM_016580) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PCDH12 |
| Synonyms: | DMJDS1; VE-cadherin-2; VECAD2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC114227 sequence for NM_016580 edited (data generated by NextGen Sequencing) |

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ATGATGCAACTTCTGCAACTTCTGCTGGGGCTTTTGGGGCCAGGTGGCTACTTATTTCTT
TTAGGGGATTGTGTCAGGAGGTGACCACTCTCACGGTGAAAATACCAAGTGTGTCAGAGGAAGTG
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GACTCCCCAGTTGCTCACTTAGTAGCTATTGACTCCAACACAGGAGAGGTCACTGCTCAG
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CAAGGGGACCCAGGTGGAAGACGGGGACTGAGGGCAAGAGCAGAGGCAGCAGCAGCAGC
AGCAGGTGCCTGTGA

Clone variation with respect to NM_016580.2

192 t=>c;1919 g=>a;2797 c=>m;3252 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016580 unedited
 CGGCCCCGGAATTCGCACGAGGCAGAGTCCCACATCCTGCTCAACTGGGTGAGTCCCTC
 TTAGACCAGCTCTTGCCATCATTTGCTGAAGTGGACCACTAGTTCCCCAGTAGGGGT
 CTCCTTGGCAATTTGATCGGCGTTTGGACATCTCAGATCGCTTCCAATGAAGATGGC
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 TCCAGCCTTGAAAGAAGCTAGTGGTTTCTGAATCTAGCCCACTTGGCGGTAAGCATGAT
 GCAACTTCTGCAACTTCTGCTGGGNCTTTTGGGGCCAGGTGGCTACTTATTTCTTTAG
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 ATCTGGTACAGTGATCGGNAAGCTGTCCAGGACTGGNGCCGGGAGGAGAAGGCGGAGGC
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 CTGNAGAAAGCTTGCTCACACAGGCAGGCGGCTGGATCGAGAGCAGCTGTGCCGACGGG
 GGGATCCCTGGCCTGTTTCTTTTGGAGTGCCTGCACAAGGGGAATTTGGCTCTGATCC
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 AACCGAACTGAAATCTCTTAAAGCGCTTTCTGGGAACCCCGGATCCCCTGAAAG
 AATTTTGAACCAAAAAAGCCCTAAAACCTGGACACCTAACTTTGTTTCAAAGAAAC
 TTTCTTTGGGGGAATTGGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016580 unedited
 GTCCTTAACCTAGTGCAGNANGCATTTCCTGGCACCCCAAGTACAGCCCCTGACTCCT
 GCTACCCAANAAGGCCACCCCTTCTGCTGTGATACTCCGTGGCATCTGTTCTGCCAGA
 GGACTGACCCCTTGTGCTCCACATATGTTTTGCCAGGAAACACTTATCTCAGCCACAAAC
 CGTCCCTGTCTCCAAAAGACTCAGAGCTGCTTACAAGGGGTGCTTTGGTCAGTCAGCT
 GTTAGTCTGGGGCTCTTGCTCCTCTGTGGGGTAGCATCAGTACCCTAAAGTTCTCA
 GGCCCGCCTAGCTAGTGTGAGTTACAAGATTTTAAAAACAGCTCTGTCCACAGATCCTC
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 TCATGCCTGAGGCTGCACTGGTGGCCAAGTCTAAACTGAGGGTCTCCCGCAGACCGAGA
 GCCCGCAGCGCCTCGGAGGCGCCTCCACGGGCATGCTGGAGCGCTGTTCCAGCAGCA
 TCTCCAGCAGTGAGTCACTCTCCGAGACAAGGTGCTGGCCAGCCTCGAGCCTGTTGGGCT
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 AGCATCCGGGAGATCACATTGCCACCGTAGCTGGTGGTGGGGGCAAAAAAGTCTCGCC
 ATCCAGCCGAGTCAAGCGCGCTCACCCGGCCAGGCCAAACCTGTGCTGGGGTCCACA
 AATTGACAAGTCTTTTTAACAGNGCTTACAAAAGTCTTTTAGGATCAAAGGCCCTCC
 TCCGTCGGGGTCTGCTGCCTCCACCCTCCCTCGGCTCCGTGTTGGCTGCACTCCGCG
 TCCGGGCTGGCAAGCTCTTACTCGAGT

Restriction Sites:

NotI-NotI

ACCN:

NM_016580

Insert Size:

4000 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:

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_016580.2](#), [NP_057664.1](#)

RefSeq Size: 5210 bp

RefSeq ORF: 3555 bp

Locus ID: 51294

UniProt ID: [Q9NPG4](#)

Cytogenetics: 5q31.3

Domains: CA

Protein Families: Transmembrane

Gene Summary: This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The encoded protein consists of an extracellular domain containing 6 cadherin repeats, a transmembrane domain and a cytoplasmic tail that differs from those of the classical cadherins. The gene localizes to the region on chromosome 5 where the protocadherin gene clusters reside. The exon organization of this transcript is similar to that of the gene cluster transcripts, notably the first large exon, but no significant sequence homology exists. The function of this cellular adhesion protein is undetermined but mouse protocadherin 12 does not bind catenins and appears to have no affect on cell migration or growth. [provided by RefSeq, Jul 2008]