

## Product datasheet for **SC119021**

### VE Cadherin (CDH5) (NM\_001795) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VE Cadherin (CDH5) (NM_001795) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDH5
Synonyms:	7B4; CD144
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001795, the custom clone sequence may differ by one or more nucleotides

```
ATGCAGAGGCTCATGATGCTCCTCGCCACATCGGGCGCCTGCCTGGGCCTGCTGGCAGTGGCAGCAGTGG
CAGCAGCAGGTGCTAACCTGCCAACGGGACACCCACAGCCTGCTGCCACCCACCGCGCCAAAAGAG
AGATTGGATTTGGAACCAGATGCACATTGATGAAGAGAAAAACACCTCACTTCCCATCATGTAGGCAAG
ATCAAGTCAAGCGTGAGTCGCAAGAATGCCAAGTACCTGCTCAAAGGAGAATATGTGGGCAAGGTCTTCC
GGTTCGATGCAGAGACAGGAGACGTGTTTCGCCATTGAGAGGCTGGACCGGAGAATATCTCAGAGTACCA
CCTCACTGCTGTATTGTGGACAAGGACACTGGCGAAAACCTGGAGACTCCTTCCAGCTTACCATCAAA
GTTTCATGACGTGAACGACAACCTGGCCTGTGTTACGCATCGGTTGTTCAATGCGTCCGTGCCTGAGTCGT
CGGCTGTGGGACCTCAGTCATCTCTGTGACAGCAGTGGATGCAGACGACCCCACTGTGGGAGACCACGC
CTCTGTATGTACCAATCCTGAAGGGGAAAGAGTATTTTCCATCGATAATTCTGGACGTATTATCACA
ATAACGAAAAGCTTGGACCGAGAGAAGCAGGCCAGGTATGAGATCGTGGTGAAGCGCGAGATGCCCAGG
GCCTCCGGGGGGACTCGGGCACGGCCACCGTGTGGTCACTCTGCAAGACATCAATGACAACCTCCCTT
CTTACCCAGACCAAGTACACATTTGTCGTGCCTGAAGACACCCGTGTGGGCACCTCTGTGGGCTCTCTG
TTTGTGAGGACCCAGATGAGCCCCAGAACCGGATGACCAAGTACAGCATCTTGGCGGGGCGACTACCAGG
ACGCTTTCACCATTGAGACAAAACCCCGCCACAACGAGGGCATCATCAAGCCATGAAGCCTCTGGATTA
TGAATACATCCAGCAATACAGCTTCATCGTCGAGGCCACAGACCCACCATCGACCTCCGATACATGAGC
CCTCCCGCGGAAACAGAGCCCAGGTCAATTATCAACATCACAGATGTGGACGAGCCCCCACTTTCCAGC
AGCCTTTCTACCCTTCCAGCTGAAGGAAAACAGAGAAGCCTCTGATTGGCACAGTGTGGCCATGGA
CCCTGATGCGGCTAGGCATAGCATTGGATACTCCATCCGACAGGACAGTGAAGGGCCAGTTCTCCGA
GTCACAAAAAAGGGGGACATTTACAATGAGAAAAGAACTGGACAGAGAAGTCTACCCCTGGTATAACCTGA
CTGTGGAGGCCAAAGAAGTGGATTCCACTGGAACCCCCACAGGAAAAGAATCCATTGTGCAAGTCCACAT
TGAAGTTTTGGATGAGAATGACAATGCCCGGAGTTTGGCAAGCCCTACCAGCCAAAGTGTGTGAGAAC
GCTGTCCATGGCCAGCTGGTCTGCAGATCTCCGCAATAGACAAGGACATAACACCACGAAACGTGAAGT
TCAAATTCATCTTGAATACTGAGAACAACCTTACCCTCACGGATAATCACGATAACACGGCCAACATCAC
AGTCAAGTATGGGCAGTTTGACCGGGAGCATACCAAGTCCACTTCTACCCGTGGTTCATCTCAGACAA
GGGATGCCAAGTCGCACGGGCACCAGCACGCTGACCGTGGCCGTGTGCAAGTGAACGAGCAGGGCGAGT
TCACCTTCTGCGAGGATATGGCCGCCAGGTGGGCGTGAGCATCCAGGCAGTGGTAGCCATTTACTCTG
CATCCTCACCATCACAGTATCACCTGCTCATCTTCTGCGGCGCGGCTCCGGAAGCAGGCCCGCGCG
CACGGCAAGAGCGTGCCGAGATCCACGAGCAGCTGGTACCTACGACGAGGAGGGCGGGCGGAGATGG
ACACCACCAGCTACGATGTGTGGTGTCAACTCGGTGCGCCGCGGGGGCCAAAGCCCCGCGGGCCCGC
GCTGGACGCCCGGCTTCCCTCTATGCGCAGGTGCAGAAGCCACCAGGCACGCGCTGGGGCACACGGA
GGGCCCCGGGAGATGGCAGCCATGATCGAGGTGAAGAAGGACGAGGCGGACCACGACGGCGACGGCCCC
CCTACGACACGCTGCACATCTACGGCTACGAGGGCTCCGAGTCCATAGCCGAGTCCCTCAGCTCCCTGG
CACCGACTCATCCGACTGTGACGTGGATTACGACTTCTTAACGACTGGGGACCCAGGTTAAGATGCTG
GCTGAGCTGTACGGCTCGGACCCCCGGGAGGAGCTGCTGTATTAG
```

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_001795 unedited
AGCCACTCGGGGTTTNGTTAAACGNACTCTCTATAGGGNACGGCCGCGNCACTTCGGCA
CGNAGNCAGTCCCTGGNACGGNACAGTGCAGTTCACGNAACANAACATCCCTCAGC
CCACAGGCACGATCTGTTCTCTGGGAAGATGCAGAGGCTCATGATGCTCCTCGCCACA
TCGGGCGCCTGCCTGGCCTGCTGGCAGTGGCAGCAGTGGCAGCAGCAGGTGCTATTTTT
GCCAACGGGACACCCACAGCCTGCTGCCACCCACCGGCGCCAAAAGAGAGATTGGATT
TGGAACAGATGCACATTGATGAAGAGAAAAACACCTCACTTCCCATCATGTAGGCAAG
ATCAAGTCAAGCGTGAGTCGCAAGAATGCCAAGTACCTGCTCAAAGGAGAATATGTGGC
AAGGTCTTCCGGGTGATGCAGAGACAGGACGTGTTCCGCCATTGAGAGGCTGGACCGG
GAGAATATCTCAGAGTACCACCTCACTGCTGTCATTGTGGACAAGGACTGGTAAAAAC
CTGGAGACTCCTTCCAGCTTACCATCAAAGTTCATGACGTGAACGACAACCTGGCCTGTG
TTCACGCATCGGTTGTTCAATGCGTCCGTGCTGAGTCGTGCGGCTGTGGGACCTCAGTC
ATCTCTGTGACAGCAGTGGATGCAGACGACCCCACTGTGGGAGACCACGCCTCTGTCATG
TACCAAATCCTGAAGGGAAAGAGTATTTGCCATCGATAATTCTGGACGTATTATCACA
ATAACGAATAGCTTGNACCGAGAGTATGCAGCCATGTATGATATCGTGGTGAAGCGCA
GATGCCCATGGCCTCCGNGGGACTCGGGCACGGCCACCGTGCTGGTCACTCTGCAAGAA
TCAATGACATCTTCCCCTTCTGCACCAGACAAGTACACATTTGTCGT
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_001795 unedited
NTTAGCTCTGGACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGCCA
GGCTAAAGATTTTTCTTTATTTAGGTATAAAAAAACAGTACTTGTGCATGCACCAGTTG
GCCAATATATAGACATTATCTGTAGAGCAATTACTACAATTATAGAAAATAGAAGTTAC
AGGAATTGTTTTTCCAACATAAAAAACCTGAATTAATATTGTTAACCTAAATAACAACCTG
CTTATTATGCAAAAACCTTATTCTATATGTCTGTGAGAGCTAGAAAACCTGTAAGTATCA
TTAGTAAAAAATCATTATAAGAAGCTAGTTATTGGTTAAAAACAACAAGTCAGTGTTAT
CTACAATCCCTTGCAGTGTGAGGGGCTTTGCCAGAGTGGGAACCTCGGTCCATGACGAA
GGGTGAGCTTGGTGTCTCCTTCCCTGCCCTCTCTGTTGACTGATGCCACTTCTCCAAGG
TGTGTTTGCAGTGAACGTTCCAGTGAAGATGCATGGGTGACCACAGAGTTGGGCAGG
GCAGGGCCTTGCCTTCTGCAAGGTGTGCCTGAGGGTCAGTCCCTGAGATGTGACAACAG
CGAGGTGTAAGACACATGGCTCGGCTCCGTGCATGCAGTCATGAGTGGGTTTGGACATTG
TCCAGTTTTGCTAAAGGCCACATCTTGGGTTCTCTAAACCAAGGATAAGGAGTAGACA
GAGAAAAGAAAGAGACCTGGATTGGCGACCAANGTGAAGCAGAGAAGGGGAGACGTCTTC
TGCTCCGGAACATCTGCCCTTCTCAGGCAAACTGGNAGGGTGCTGANGAGTCTCAAAGC
AGGTCTCAGCTCTTCCAGGCCTTCCAAAGGGGGTGGTGGTGAAGGTGGCCCTCACCT
GGGATCTGGCACTCCTGATCTTACCTGCCCTCCAGAATGAN
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001795

**Insert Size:**

4200 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001795.2</a> , <a href="#">NP_001786.1</a>
<b>RefSeq Size:</b>	4134 bp
<b>RefSeq ORF:</b>	4134 bp
<b>Locus ID:</b>	1003
<b>UniProt ID:</b>	<a href="#">P33151</a>
<b>Cytogenetics:</b>	16q21
<b>Domains:</b>	Cadherin_C_term, CA
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration
<b>Gene Summary:</b>	<p>This gene encodes a classical cadherin of the cadherin superfamily. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classical cadherin by imparting to cells the ability to adhere in a homophilic manner, this protein plays a role in endothelial adherens junction assembly and maintenance. 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. [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>