

## Product datasheet for **SC116168**

### Fibulin 5 (FBLN5) (NM\_006329) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fibulin 5 (FBLN5) (NM_006329) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fibulin 5
Synonyms:	ADCL2; ARCL1A; ARMD3; DANCE; EVEC; FIBL-5; HNARMD; UP50
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_006329 edited
GAATTACTGAAGAGGGCTAAGCAAAACCAGGTGCTTGCCTGAGGGCTCTGCAGTGGCTG
GGAGGACCCCGGCGCTCTCCCGTGTCTCTCCACGACTCGTCCGGCCCTCTGGAATAA
AACACCCGCGAGCCCGAGGGGCCAGAGGAGGCCGACGTGCCCGAGCTCCTCCGGGGGTC
CCGCCCCGAGCTTTCTTCTCGCCTTCGCATCTCTCTCGCGCTCTTGACATGCCAG
GAATAAAAAGGATACTACTGTTACCATTCTGGCTCTGTCTTCCAAGCCCTGGGAATG
CACAGGCACAGTGCACGAATGGCTTTGACCTGGATCGCCAGTCAGGACAGTGTTTAGATA
TTGATGAATGCCGAACCATCCCCGAGGCCTGCCGAGGAGACATGATGTGTGTTAACCAAA
ATGGCGGGTATTTATGCATTCCCCGACAAACCCTGTGTATCGAGGGCCCTACTCGAACC
CCTACTCGACCCCTACTCAGGTCCGTACCCAGCAGCTGCCCCACCACTCTCAGTCCAA
ACTATCCACGATCTCCAGGCTCTTATATGCCGCTTTGGATACCAGATGGATGAAAGCA
ACCAATGTGTGGATGTGGACGAGTGTGCAACAGATTCCCACCAAGTGAACCCACCCAGA
TCTGCATCAATACTGAAGCGGGTACACCTGCTCTGCACCGACGGATATTGGCTTCTGG
AAGGCCAGTGTAGACATTGATGAATGTCGCTATGGTACTGCCAGCAGCTCTGTGCGA
ATGTTCTGGATCCTATTCTGTACATGCAACCCTGGTTTTACCCTCAATGAGGATGGAA
GGTCTTGCCAAGATGTGAACGAGTGTGCCACCGAGAACCCTGCGTGCAACCTGCGTCA
ACACCTACGGCTCTTTCATCTGCGCTGTGACCCAGGATATGAACTTGAGGAAGATGGCG
TTCATTGCAGTGATATGGACGAGTGCAGCTTCTCTGAGTTCTCTGCCAACATGAGTGTG
TGAACCAGCCCGGCACATACTTCTGCTCCTGCCCTCCAGGCTACATCCTGCTGGATGACA
ACCGAAGCTGCCAAGACATCAACGAATGTGAGCACAGGAACCACAGTGAACCTGCAGC
AGACGTGTACAATTTACAAGGGGGCTTCAAATGCATTGACCCCATCCGCTGTGAGGAGC
CTTATCTGAGGATCAGTGATAACCGCTGTATGTCTCTGCTGAGAACCCTGGCTGCAGAG
ACCAGCCCTTTACCATCTTGTACCGGGACATGGACGTGGTGTGAGGACGCTCCGTTCCCG
CTGACATCTTCCAATGCAAGCCACGACCCGCTACCCTGGGGCCTATTACATTTTCCAGA
TCAAATCTGGGAATGAGGGCAGAGAATTTACATGCGGCAAAACGGGCCCATCAGTGCCA
CCCTGGTGTGACACGCCCATCAAAGGGCCCGGAAATCCAGCTGGACTTGAAATGA
TCACTGTCAACACTGTCACTCAACTTCAGAGGCAGCTCCGTGATCCGACTGCGGATATATG
TGTGCGAGTACCCATTCTGAGCCTCGGGCTGGAGCCTCCGACGCTGCCTCTCATTGGCAC
CAAGGGACAGGAGAAGAGAGGAAATAACAGAGAGAATGAGAGCGACACAGACGTTAGGCA
TTTCTGCTGAACGTTTTCCCGAAGAGTACGCCCGACTTCTGACTCTCACCTGTACTA
TTGCAGACCTGTACCCCTGCAGGACTTGCCACCCCGAGTTCCTATGACACAGTTATCAA
AAGTATTATCATTGCTCCCTGATAGAAGATTGTTGGTGAATTTCAAGGCCTTCAGTTT
ATTTCCACTATTTTCAAAGAAAATAGATTAGGTTTGCGGGGTCTGAGTCTATGTTCAA
GACTGTGAACAGCTTGTGTCACTTCTTCACTCTTCCACTCCTTCTCTCACTGTGTTAC
TGCTTTGCAAAGACCCGGGAGCTGGCGGGGAACCCTGGGAGTAGCTAGTTTGGTTTTTGC
GTACACAGAGAAGGCTATGTAACAAACCACAGCAGGATCGAAGGGTTTTTAGAGAATGT
GTTTCAAACCATGCCTGGTATTTTCAACCATAAAAAGAAGTTTCAGTTGTCTTAAATTT
GTATAACGGTTTTAATTCTGTCTTGTTCATTTTGTAGTATTTTAAAAAATATGTCGTAGAA
TTCCTTCGAAAGGCCTTCAGACACATGCTATGTTCTGTCTTCCCAAACCCAGTCTCCTCT
CCATTTTAGCCCCAGTTTTCTTTGAGGACCCCTTAATCTTGCTTTCTTTAGAATTTTAA
CCCAATTGGATTGGAATGCAGAGGTCTCCAACTGATTAATATTTGAAGAGAAAAAAA
AAAAAAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006329 unedited            CAGAAATTTGTAATACGAACTACTATAGGGCGGCCGGAATTCGCACGAGGGAATTACT            GAAGAGGGCTAAGCAAAACAGGTGCTTGCCTGAGGGCTCTGCAGTGGCTGGGAGGACC            CCGGCGCTCTCCCGTGTCTCTCCACGACTCGCTCGGCCCTCTGGAATAAACACCCG            CGAGCCCCGAGGGCCAGAGGAGCCGACGTGCCGAGCTCCTCCGGGGTCCC GCCCGC            GAGCTTTCTTCGCCTTCGCATCTCTCTCGCGCTTTGGACATGCCAGGAATAAAA            AGGATACTACTGTTACCATTCTGGCTCTGTCTTCCAAGCCCTGGGAATGCACAGGCA            CAGTGCACGAATGGCTTTGACCTGGATGCCAGTCAGGACAGTGTAGATATTGATGAA            TGCCGAACCATCCCCGAGCCTGCCGAGGACATGATGTGTGTTAACCAAAATGGCGGG            TATTTATGCATCCCCGGACAAACCTGTGTATCGAGGGCCCTACTCGAACCCCTACTCG            ACCCCCTACTCAGGTCCGTACCCAGCAGCTGCCACCCTCTCAGCTCCAACTATCCC            ACGATCTCAGGCCTTATATGCCGCTTTGGATACCAGATGGATGAAAGCAACCAATGT            GTGGATGTGGACGAGTGTGCAACAGATCCACCAGTGAACCCACCCAGATCTGCATC            AATACTGAAGGCGGTACACCTGCTCTGCACCGACGGATATTGGCTTCTGGGAAGCCAG            TGCTTANACATTGATGAATGTCGTATGGTTACTGCCAGCAGCTCTGTGCGAATGGTCT            GGNACCTATNCTTGACATGCAACCTGNTNTACCCTCATGNAGATGGNAGGTCTTGCCAG            ATGTGACGATGTGCCACGAAAC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006329 unedited            CGCGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTCTCAA            ATATTAATCAGTTTGGAAACCTCTGCATTCCAATCCAATGGGTAATAATCTAAAAAA            AGCAAGATTAAGGGTCTCAAAAAAACTGGGCTAAAATGGAAAGGAACTGGGTTT            GGGAAAACAAAACATAGCATGTGTCTGAAAGCCTTTCAAAGGAATTCTACGACATATTT            TAAAAAATACTAAAATGAACAAGACAGAATTAACCGTTATACAAATTAAGGACAAC            GAAACTCTTTTATGGTTGAAAATACCAGGCATGGTTTTGAAACACATTCTAAAAACC            CTTTCGATCCTGTGGGTTTGTTCATAGCCTTCTGTGTACGCAAAAAGCAAACCTAG            CTACTCCAGGGTTCCCCGCCAGCTCCCGGTCTTTGCAAAGCAGTAACACAGTGAAGA            AGGAGTGGAAAAGGTGAAAAGTGACAGCAAGCTGTTACAGTCTTTGAACATAAACTCA            GACCCCGCAAACCTAATCTATTTCTTTGAAAATAGTGGAAATAAACTGAAGGCCTTGA            AAATCCCAACAATCTTCTATCAGGGGAGCAATGATAAACTTTTGTAACTGTGTCATA            GGAACCTGGGGTGGCAAGTCTGCAGGGTGACAAGTCTGCATANTACAGGTGAAAGTCAA            GAAGTCCGGGCTGACTCTTCGGGAAACGTTACAGAGGAAATGCCTAACCTCTGTGCCGC            TCTCATTCTCTGGTAATCTCTCTCCCCGGCCCTGGGNGCCATGAAAGGCAGCGGT            CGAAGGTCCANCCCCAGCTCAAATGGGGCTGCAACCCTATTTCCGCCGTCGGTCCACGA            ACCTGCCTTTGAATTGAAACAGGGTGACAGGGTTCATTCCCATCCACTGGGTTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006329
<b>Insert Size:</b>	2400 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_006329.
<b>Components:</b>	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\\_006329.2](#), [NP\\_006320.2](#)

**RefSeq Size:** 2646 bp

**RefSeq ORF:** 1347 bp

**Locus ID:** 10516

**UniProt ID:** [Q9UBX5](#)

**Cytogenetics:** 14q32.12

**Domains:** EGF\_CA, EGF, EGF

**Protein Families:** Secreted Protein

**Gene Summary:** The protein encoded by this gene is a secreted, extracellular matrix protein containing an Arg-Gly-Asp (RGD) motif and calcium-binding EGF-like domains. It promotes adhesion of endothelial cells through interaction of integrins and the RGD motif. It is prominently expressed in developing arteries but less so in adult vessels. However, its expression is reinduced in balloon-injured vessels and atherosclerotic lesions, notably in intimal vascular smooth muscle cells and endothelial cells. Therefore, the protein encoded by this gene may play a role in vascular development and remodeling. Defects in this gene are a cause of autosomal dominant cutis laxa, autosomal recessive cutis laxa type I (CL type I), and age-related macular degeneration type 3 (ARMD3). [provided by RefSeq, Jul 2008]