

Product datasheet for **RG204683**

Fibulin 5 (FBLN5) (NM_006329) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibulin 5 (FBLN5) (NM_006329) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fibulin 5
Synonyms:	ADCL2; ARCL1A; ARMD3; DANCE; EVEC; FIBL-5; HNARMD; UP50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204683 representing NM_006329
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGAATAAAAAGGATACTACTGTTACCATTCTGGCTCTCTGTCTTCCAAGCCCTGGGAATGCAC
 AGGCACAGTGCACGAATGGCTTTGACCTGGATCGCCAGTCAGGACAGTGTAGATATTGATGAATGCCG
 AACCATCCCCGAGGCTGCCGAGGAGACATGATGTGTGTTAACCAAAATGGCGGGTATTTATGCATTCCC
 CGGACAAACCCTGTGTATCGAGGGCCCTACTCGAACCCCTACTCGACCCCTACTCAGGTCGGTACCCAG
 CAGCTGCCCCACCACTCTCAGCTCCAACTATCCACGATCTCCAGGCCTTTATATGCCGCTTTGGATA
 CCAGATGGATGAAAGCAACCAATGTGTGGATGTGGACGAGTGTGCAACAGATTCCACCAGTGAACCCC
 ACCCAGATCTGCATCAATACTGAAGGCGGGTACACCTGCTCCTGCACCGACGGATATTGGCTTCTGGAAG
 GCCAGTGTAGACATTGATGAATGTCGCTATGGTTACTGCCAGCAGCTCTGTGCGAATGTTCTCTGGATC
 CTATTCTTGTACATGCAACCCTGGTTTTACCCTCAATGAGGATGGAAGGCTTGCCAAGATGTGAACGAG
 TGTGCCACCGAGAACCCCTGCGTGCAAACCTGCGTCAACACCTACGGCTCTTTCATCTGCCGCTGTGACC
 CAGGATATGAACTTGAGGAAGATGGCGTTCATTGCAAGTATGGACGAGTGCAGCTTCTCTGAGTTCCT
 CTGCCAACATGAGTGTGTGAACAGCCCGGCACATACTTCTGCTCCTGCCCTCCAGGCTACATCCTGCTG
 GATGACAACCGAAGCTGCCAAGACATCAACGAATGTGAGCACAGGAACACACGTGCAACCTGCAGCAGA
 CGTGCTACAATTTACAAGGGGGCTTCAAATGCATCGACCCATCCGCTGTGAGGAGCCTTATCTGAGGAT
 CAGTGATAACCGCTGTATGTGTCCTGCTGAGAACCCTGGCTGCAGAGACCAGCCCTTTACCATCTGTAC
 CGGGACATGGACGTGGTGTGTCAGGACGCTCCGTTCCCGTGACATCTTCAAATGCAAGCCACGACCCGCT
 ACCCTGGGGCCTATTACATTTTCCAGATCAAATCTGGAATGAGGGCAGAGAATTTTACATGCGGCAAAC
 GGGCCCCATCAGTGCACCCCTGGTGTGATGACACGCCCCATCAAAGGGCCCCGGGAAATCCAGCTGGACTTG
 GAAATGATCACTGTCAACACTGTCATCAACTTCAGAGGCAGCTCCGTGATCCGACTGCGGATATATGTGT
 CGCAGTACCCATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204683 representing NM_006329
 Red=Cloning site Green=Tags(s)

MPGIKRIILVTILALCLPSPGNAQAQCTNGFDLDRQSGQCLDIDECRTIPEACRGMCMVNQNGGYLCIP
 RTNPVYRGPYSNPYSTPYSGPYPAAPPLSAPNYPTISRPLICRFGYQMDENQCVDVDECATDSHQCNP
 TQICINTEGGYTCSDTDGYWLLLEGQCLDIDECRYGYCQQLCANVPGYSCTCNPGFNLNEDGRSCQDVNE
 CATENPCVQTCVNTYGSFICRCDPGYELEEDGVHCSMDDECSFSEFLCQHECVNQPGTYFCSCPPGYILL
 DDNRSCQDINECEHRNHTCNLQQTTCYNLQGGFKCIDPIRCEEPYLRI SDNRCMCPAENPGCRDQPFILY
 RDMDVVSGRSVPADIFQMQAATRYPGAYYIFQIKSGNEGREFYMRQTGPISATLVMTRPIKGPREIQLDL
 EMITVNTVINFRGSSVIRLRIYVSQYPF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006329

ORF Size: 1344 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006329.2](#), [NP_006320.2](#)

RefSeq Size: 2646 bp

RefSeq ORF: 1347 bp

Locus ID: 10516

UniProt ID: [Q9UBX5](#)

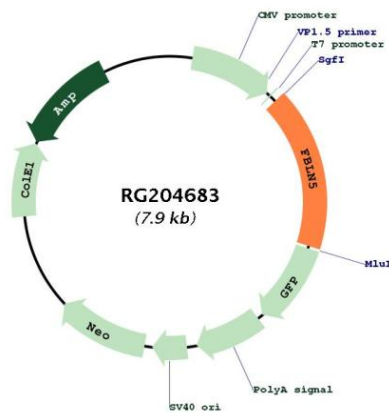
Cytogenetics: 14q32.12

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]

Product images:



Circular map for RG204683