

Product datasheet for **RG218622**

Fibulin 2 (FBLN2) (NM_001004019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibulin 2 (FBLN2) (NM_001004019) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FBLN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218622 representing NM_001004019 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTCTGCTCTGGGAGCCTGCAGGAGCCTGGCTTGCTCTGGGCCTGGCCCTGGCCCTGGGCCCCAGCG
TGGCCGACAGTGGCCCTCGGCAGGACTGCACGGCGTGGAGTGGCCGCGCTGGAGAAGTGCATTGAGGA
GGCGCTGGAGCCGGGTGCCTGCTGTGCCACGTGTGTGCAGCAGGGCTGCGCCTGCGAGGGCTACCACTAC
TATGACTGCCTACAGGGTGGCTTCGTGCGCGGCCGCGTGGCCGCGGTGAGTCCATTTTGTGGACTCG
GGAGCAGTGTCTCTGCCACCAGGGCGGCAAGATCAGTGCAGTTCATGCTGTGCCCGGAGCT
GCCGCCAACTGCATCGAGGCTGTAGTGGTGGCTGACAGCTGCCACAGTGGCCAGGTGGGCTGCGTTC
CACGCGGGCCACAAGTACGCCGCTGGCCACACTGTTACCTGCCGCCCTGCCGGGCTGCCACTGCCCTG
ACGCCGTTGGAGAGCTCATCTGCTACCAGCTCCCCGTTGCCACGGAACTTCTCAGATGCCAGGAGGG
TGACCCCGAGCGACACTACGAAGACCCCTACAGCTATGACCAGGAGGTGGCCGAGGTGGAAGCAGCAACA
GCCCTGGGGGTGAGGTCCAGGCGGGTGCAGTCCAGGCAGGCGCAGGGGGCCCCAGCTGCTCTGGGAG
GTGGGAGTCACTGTCCACCATCCAGGCACCCCTGGCCAGCTGTCTCCAGGCCACAGCGGC
TGCTGCCCTGGTCCCCAGCCCAGTGCAGGCCAAAGCTAGGAGAGTACCAGGACAGTGGAGGAGAA
GAAGAGGAGGAGGAGAGAGAGAGAAATGGCTGTCACTGAGCAGCTGGCAGCAGGTGGCCACAGGGGGC
TGGATGGGCTGCCACTACAGCCCCAGCTGGACCCAGTCTTCTATCCAGGAGGAGGGCAGAAGCTGG
GGCAAGGGCAGAAGCTGGGGCAAGGCCTGAAGAGAACCTCATCTGGATGCCAAGCCACGTCCCCGAGC
ACTGGGCCGAGGGCGTACGCATGACCCGAGCCTGGGCAAGGCTGCTCTCGTCCCAACTCAGGCCGTGC
CTGGCTCTCCAGGGACCCAGTCAAGCCCAGCCCCACAACATCTGTCCACATCACTGCCTGATGCAGC
CTGGATCCCAACCCAGGAGAAGTGCCAGGAAGCCGCAAGTCTGCCCATCCACGTGGAGGAGGAC
ACAGACCCCAACTCTGTCCATTCTATCCCAGAAGTAGCCCTGAAGGCTCCACCAAGGACCTGATCGAGA
CTTGCTGCGCAGCCGGACAGCAGTGGGCCATTGACAATGACGAGTGCCTGGAGATCCCTGAGAGTGGCAC
TGAGGACAACGTCTGCAGGACAGCCAGAGGCACTGCTGTGTCTCTACTTGCAGGAGAAGAGTGCATG
GCCGGCTCCTGGGAGCCAAGGAGGGTGAACCTGTGGGCTGAGGACAACGACAGCTGCCGCATCTCCC
TGTACAAGCAATGCTGTGACTGCTGTGGCTGGGCTCCGCGTGCGGCCGAGGGCCAGTGTGTGAGTC



[View online »](#)

CAATCCTAACCTGGGCTATCCCTGCAATCATGTATGCTCTCCTGCTGTGAGGGTGAAGAGCCTCTCATA
GTACCTGAGGTTTCGCCGACCTCCAGAGCCCGCAGCTGCACCACGGAGAGTTTCAGAGGCAGAGATGGCGG
GCCGAGAGGCCCTGTCACTGGGCACAGAGGCCGAGCTGCCGAACAGCCTGCCGGGCGATGACCAGGATGA
GTGCTTCTCCTCCCGGGAGAGCTGTGCCAGCACCTTTGCATCAATACTGTGGGTTCTTACCAGTGTGCC
TGCTTTCTGGCTTCTCACTGCAGGACGATGGCCGCACTTGCCGCCAGAGGGTCAACCCATCCCGCTGCCACT
AAGCCCCACAGGAGCCTGCACTGAAGTCAGAATTTCCAGGTGGCCTTAACACCATCCCGCTGCCACT
GCCGCAGCCCAATACCTGCAAAGACAATGGACCCTGCAAGCAGGTGTGCAGCACTGTTGGGGCTCAGCC
ATATGCTCCTGTTTTCCCGGCTATGCCATCATGGCGGATGGCGTGTCTGTGAAGACCAAGACGAGTGCC
TGATGGGTGCTCACGATTGTAGCCGCGACAGTTCTGTGTGAACACCCTGGGATCCTTCTACTGTGTCAA
CCACACAGTGTCTGTGCCGATGGCTATATCCTCAATGCGCACAGGAAGTGCCTGGACATCAACGAGTGT
GTGACGGACCTGCACACGTGCAGCCGGGGCAGCACTGTGTGAACACACTGGGCTCCTTCCACTGCTACA
AGGCACTCACCTGTGAGCCAGGCTATGCCCTCAAGGATGGCGAGTGCAGAACAGTGGATGAGTGTGCGAT
GGGCACGCACACCTGCCAGCCGGGCTTCTGTGCCAGAACACCAAGGGCTCCTTCTACTGCCAGGCCAGG
CAGCGCTGCATGGATGGCTTCTGCAGGATCCTGAAGGCAACTGTGTGGACATCAACGAGTGCACGTAC
TGTCGAGCCATGTCGGCCAGGCTTCACTGCATCAACACGGTGGGCTCCTACACATGCCAGAGGAACCC
GCTGATCTGCGCGCGCGCTACACGCCAGCGATGATGGGACCAAGTGTGTGGACGTGAATGAGTGTGAG
ACAGGTGTGCACCCTGCGGTGAGGGCCAAGTGTGCCACAACCTCCCTGGCTCCTACCGCTGTGACTGCA
AAGCCGGCTTTCAGCGGGATGCCTTTGGCCGGGCTGCATCGACGTGAATGAGTGTGGGCTCGCCAGG
CCGCTGTGCCAGCACACGTGTGAGAACACACTCGGCTCCTACCGCTGTTCTGCGCCTCCGGGTTCTG
CTAGCAGCGGACGGCAAGCGCTGTGAAGACGTGAATGAGTGTGAGGCCAGCGCTGCAGCCAGGAGTGTG
CCAACATCTATGGCTCCTACAGTGTACTGCCGCCAGGGCTACCAGTGGCTGAGGATGGGCACACCTG
CACAGACATCGACGAGTGTGCTCAAGGCCCGGCATCCTCTGCACCTCCGCTGTCTCAACGTGCCAGGG
AGCTACCAGTGTGCATGCCCTGAGCAGGGCTACACCATGACGGCCAACGGGAGTCTGCAAGGACGTGG
ATGAGTGTGCACTGGGTACCCACAACCTGTTCCGAGGCTGAGACCTGCCACAACATCCAGGGTAGCTTCCG
CTGCTGCGCTTCGAGTGTCTCCCAACTATGTCCAAGTCTCAAAACGAAGTGCAGCGCACACAGTGC
CATGACTTCTGGAGTGCCAGAACTCGCCAGCGCATCACGCACTACCAGTCAACTTCCAGACGGGCC
TCCTGGTGCCTGCGCATACTTCCGCATTGGCCCCGCGCCAGCCTTACGGGGGACACCATCGCCCTGAA
CATCATCAAGGGCAATGAGGAGGGCTACTTTGGCACGCGCAGGCTCAATGCCTACACGGGTGTGGTCTAC
CTGCAGCGGGCCGTGCTGGAGCCCCGGGACTTTGCCCTGGACGTGGAGATGAAGCTCTGGAGGCAGGGCT
CCGTACCACCTTCTGGCCAAGATGCACATCTTCTTACCACCTTTGCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218622 representing NM_001004019
 Red=Cloning site Green=Tags(s)

```

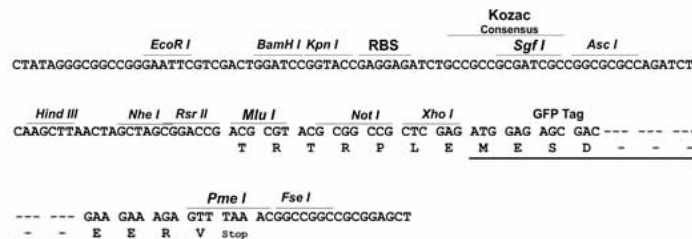
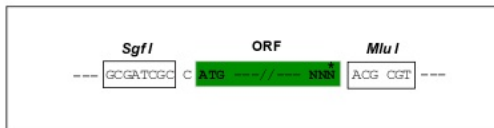
MVLWEPAGAWLALGLALALGPSVAAAAPRDCTGVECPPLENCIEEALPGACCATCVQQGACEGYQY
YDCLQGGFVVRGRVPAGQSYFVDFGSTECSCPPGGGKISCQFMLCPELPPNCIEAVVVADSCPCGQVGCV
HAGHKYAAGHTVHLPPCRACHCPDAGGELICYQLPGCHGNFSDAEEGDPERHYEDPYSYDQEVAVEAAT
ALGGEVQAGAVQAGAGGPPAALGGGSQLSTIQAPPWAVLPRPTAAAALGPPAPVQAKARRVTEDESEEE
EEEEEREEMAVTEQLAAGGHRGLDGLPTTAPAGPSLPIQEERAEGARAEAGARPEENLILDAQATSR
TGPEGVTHAPSLGKAALVPTQAVPGSPRDPVKPSPHNILSTSLPDAWIPPTREVPRKPQVLPVSHVEED
TDPNSVHSIPRSSPEGSTKDLIETCCAAGQQAIDNDECLIPESGTEDNVCRTAQRHCCVSYLQEKSCM
AGVLGAKEGETCGAEDNDSCGISLYKQCCDCGLGLRVRAEQSCSNPNLGYPCNHVMLSCCEGEEPLI
VPEVRRPPEPAAAPRRVSEAEMAGREALSLGTEAELPNSLPGDDQDECLLLPGELCQHLCINTVGSYHCA
CFPGFSLQDDGRTCRPEGHPPEAPQEPALKSEFSQVANTIPPLPQPNTCKDNGPCKQVCSTVGGSA
ICSCFPGYAIMADGVSCEDQDECLMGAHDCSRRQFCVNTLGSFYCVNHTVLCADGYILNAHRKCVDINEC
VTDLHTCSRGEHCVNTLGSFHCKYKALTCPEGYALKDGECEVDDECAMGHTCQPGFLCQNTKGSFYCQAR
QRCMDGFLQDPEGNVDINECTSLSEPCRPFGSCINTVGSYTCQRNPLICARGYHASDDGKCVDVNECE
TGVHRCGEGQVCHNLPGSYRCDCKAGFQRDAFGRGCIDVNECWASPGRLCQHTCENTLGSYRCSASGFL
LAADGKRCEDVNECEAQRCSQECANIYGSYQCYCRQGYQLAEDGHTCTDIDECAQGAGILCTFRCLNVP
SYQCACPEQGYMTANGRSCKDVDECALGTHNCSEAETCHNIQGSFRCLRFECPPNYVQVSKTKCERTTC
HDFLEQCNSPARITHYQLNFQTLGLVPAHIFRIGPAPAF TGDTIALNIIKNEEGYFGTRRLNAYTGVVY
LQRAVLEPRDFALDVEMLKWRQGSVTTFLAKMHIFTTFFAL
  
```

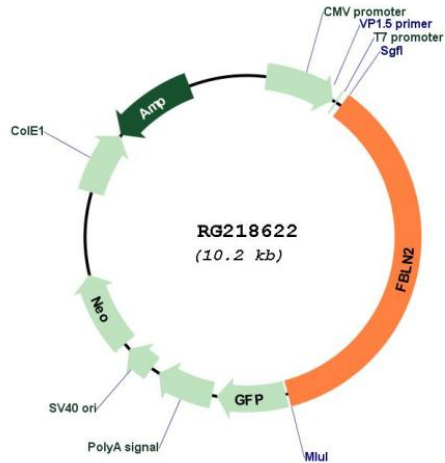
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001004019

ORF Size: 3693 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_001004019.2](#)

RefSeq Size: 4334 bp

RefSeq ORF: 3696 bp

Locus ID: 2199

UniProt ID: [P98095](#)

Cytogenetics: 3p25.1

Protein Families: Secreted Protein

Gene Summary: This gene encodes an extracellular matrix protein, which belongs to the fibulin family. This protein binds various extracellular ligands and calcium. It may play a role during organ development, in particular, during the differentiation of heart, skeletal and neuronal structures. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]