

Product datasheet for **SC119927**

TGFBI (NM_000358) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGFBI (NM_000358) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGFBI
Synonyms:	BIGH3; CDB1; CDG2; CDGG1; CSD; CSD1; CSD2; CSD3; EBMD; LCD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119927 sequence for NM_000358 edited (data generated by NextGen Sequencing)

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ATGGCGCTCTTCGTGCGGCTGCTGGCTCTCGCCCTGGCTCTGGCCCTGGGCCCCGCCGG
ACCCTGGCGGGTCCCGCAAGTCGCCCTACCAGCTGGTGTGCAGCACAGCAGGCTCCGG
GGCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGTTATTGGCACTAATAGGAAG
TACTTCACCAACTGCAAGCAGTGGTACCAAAGGAAAATCTGTGGCAAATCAACAGTCATC
AGCTACGAGTGTCTCCTGGATATGAAAAGTCCCTGGGAGATCGTTGGATCCACCACCACTAGCTG
CTACCACCTCAAACCTTTACGAGACCCTGGGAGTCGTTGGATCCACCACCACTAGCTG
TACACGGACCGCACGGAGAAGCTGAGGCCTGAGATGGAGGGGCCCGCAGCTTACCATC
TTCGCCCTAGCAACGAGGCTGGGCTCCTTGCCAGCTGAAGTGTGGACTCCCTGGTC
AGCAATGTCAACATTGAGCTGCTCAATGCCCTCCGCTACCATATGGTGGGAGGCGAGTC
CTGACTGATGAGCTGAAACACGGCATGACCCTCACCTCTATGTACCAGAATTCCAACATC
CAGATCCACCACTATCCTAATGGGATTGTAAGTGTGAAGTGTGCCCGGCTCCTGAAAGCC
GACCACCATGCAACCAACGGGGTGGTGCACCTCATCGATAAGGTCATCTCCACCATCACC
AACACATCCAGCAGATCATTGAGATCGAGGACACCTTTGAGACCCTTCGGGCTGTGTG
GCTGCATCAGGGCTCAACACGATGCTTGAAGGTAAACGGCCAGTACACGCTTTTGGCCCCG
ACCAATGAGGCCTTCGAGAAGATCCCTAGTGAGACTTTGAACCGTATCCTGGGCGACCCA
GAAGCCCTGAGAGACCTGCTGAACAACCACATCTTGAAGTCAGCTATGTGTGCTGAAGCC
ATCGTTGCGGGGCTGTCTGTAGAGACCCTGGAGGGCAGCACACTGGAGGTGGGCTGCAGC
GGGGACATGCTCACTATCAACGGGAAGGCGATCATCTCCAATAAAGACATCTAGCCACC
AACGGGGTGATCCACTACATTGATGAGCTACTCATCCAGACTCAGCCAAGACACTATTT
GAATTGGCTGCAGAGTCTGATGTGTCCACAGCCATTGACCTTTTCAGACAAGCCGGCCTC
GGCAATCATCTCTGGAAGTGAGCGGTTGACCCTCCTGGCTCCCCTGAATTCTGTATTC
AAAGATGGAACCCCTCCAATTGATGCCCATACAAGGAATTTGCTTCGGAACACATAAATT
AAAGACCAGCTGGCCTCTAAGTATCTGTACCATGGACAGACCCTGGAACTCTGGGCGGC
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GCCACGACAAGAGGGGAGGTACGGGACCCTGTTACGATGGACCGGGTGTGACCCCC
CCAATGGGGACTGTCATGGATGCTCCTGAAGGGAGACAATCGCTTTAGCATGCTGGTAGCT
GCCATCCAGTCTGCAGGACTGACGGAGACCCTCAACCGGAAGGAGTCTACACAGTCTTT
GCTCCCACAAATGAAGCCTTCAGGCCCTGCCACCAAGAGAACGGAGCAGACTCTTGGGA
GATGCCAAGGAATTGCCAACATCCTGAAATACCACATTGGTGTGAAATCCTGGTTAGC
GGAGGCATCGGGGCCCTGGTGGCTAAAGTCTCTCCAAGGTGACAAGCTGGAAGTCAGC
TTGAAAAACAATGTGGTGTGAGTGTCAACAAGGAGCCTGTTGCCGAGCCTGACATCATGGCC
ACAAATGGCGTGGTCCATGTCATACCAATGTTCTGCAGCCTCCAGCCAACAGACCTCAG
GAAAGAGGGGATGAAGTGTGAGACTCTGCGCTTGGATCTTCAAACAAGCATCAGCGTTT
TCCAGGGCTTCCAGAGGTCTGTGCGACTAGCCCTGTCTATCAAAGTTATTAGAGAGG
ATGAAGCATTAG
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Clone variation with respect to NM_000358.2
651 g=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000358 unedited
 ATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAGCCGCCCGCT
 TGCCCCGTCGGTCGCTAGCTCGCTCGGTGCGCGTCGTCCCCTCCATGGCGCTCTTCGTGC
 GGCTGCTGGCTCTCGCCCTGGCTCTGGCCCTGGGCCCCGCGGACCCCTGGCGGGTCCCG
 CCAAGTCGCCCTACCAGCTGGTGTGCAGCACAGCAGGCTCCGGGGCCGCCAGCACGGCC
 CCAACGTGTGTGCTGTGCAGAAGTTATTGGCCTAATAGGAAGTACTTCACCAACTGCA
 AGCAGTGGTACCAAAGGAAAATCTGTGGCAAATCAACAGTCATCAGCTACGAGTGTGTC
 CTGGATATGAAAAGTCCCTGGGNAGAAAAGGGCTGTCCAGCAGCCCTACCACTCTCAAAC
 CTTTACGAGACCCTGGGAGTCGTTGGATCCACCACCACTCAGCTGTACACGGACCCGACG
 GAGAAGCTGAGGCCTGAGATGGAGGGGCCCGCAGCTTACCATCTTCGCCCTAGCAAC
 GAGGCCTGGGCTCCTTGCCAGCTGAAGTGTGGACTCCCTGGTCAGCAATGTCAACATT
 GAGCTGCTCAATGCCCTCCGCTACCATATGGTGGGCAGGCGAGTCTGACTGATGAGCTG
 NAACACGGCATGACCCTCACCTCTATGTACCAGAATCCACATCCAGATCCACCCTATC
 CTAATGGGGATTGTAACCTGTGAACTGTGCCCGGCTCCTGAAAGCCGACCACCATGCACC
 AACGGGGGTGGGGCACCTCAATCGATAAGGTCATTCTCCCATCACCAACAACATCCAG
 CAGATAATTTGGGAACCGAGGACACCCTTGAGACCCTTCGGCCTGCTGTGGCTGGATCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000358 unedited
 GTCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATGTTTTCTTTGGTTT
 TATTATTACAAACACACCATGGCTCTGTCACAATAGGGAAATCTAAGCTCTACATACCAT
 TTCTTTTCTACCTGGACAGGGCCCCATAAAAGCCTCAAGCCACGTGTAGATGTGAGACA
 CATTTGACAGAACATTTCAACTCATAGCTTATAATGATGCCATTTCTCCAGCTGTGCAAG
 GGCTTTACAAAACTGTGCCAGGACTTCCCATGAGGCTGGATTGCTTGATTCATGTTTTA
 TGAGCCCCACAATACTGAAGCTCCTTTCCAGGACTTGGCATAGGCAGTCAATCCACA
 TTTGGGATAGTCTCTCTGGAAGTGAATGTCAGGCAGTGACATCCAAGTTTCTGCATGC
 AGTGGGTTAACAGCCATGTTTAGGGGAACATGATTTAAAAAGTACATCTCTCTCCCTCC
 TCCCCACATGCACAAGGCTCACATCTCATTATGGTGCGGCCCATGTACATTAAGTGTG
 ATACTTGGTTTTGAAACATTCAAACAGTCTCTGTGGAAATCTGACAGAAAATGGCGGAAA
 GCTGCCGCGGTGCATTCCTCCTGTAGTGCCTTACACCAATGCTTCATCCTTTCTAATCC
 CTTCTGAAAACCGGGGCCCTCCCCAGACCTTTGGAAACCCCTGGAAAACGCTGATGCC
 TGGTCTCAGAACTCAACCCATACTTGAAGTTTATCCCCTTCTCCTGAGGTCCCGTGGT
 CGGTGGCTCCACACATTGCGCAGACCGTCCCGCCCTTTTGTGTCTCACGTCCATGTTA
 CCACCTCCCCCTATTACCCTACCACTGCTTAAAACGCATTCCATCTGCACTCTTCCAAA
 TTTACCCACAGTGCCAGTTTTCTCTCC

Restriction Sites:

NotI-NotI

ACCN:

NM_000358

Insert Size:

2800 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_000358.1](#), [NP_000349.1](#)

RefSeq Size: 2691 bp

RefSeq ORF: 2052 bp

Locus ID: 7045

UniProt ID: [Q15582](#)

Cytogenetics: 5q31.1

Domains: FAS1

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Gene Summary: This gene encodes an RGD-containing protein that binds to type I, II and IV collagens. The RGD motif is found in many extracellular matrix proteins modulating cell adhesion and serves as a ligand recognition sequence for several integrins. This protein plays a role in cell-collagen interactions and may be involved in endochondrial bone formation in cartilage. The protein is induced by transforming growth factor-beta and acts to inhibit cell adhesion. Mutations in this gene are associated with multiple types of corneal dystrophy. [provided by RefSeq, Jul 2008]