

Product datasheet for **RG200411**

TGFBI (NM_000358) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGFBI (NM_000358) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TGFBI
Synonyms:	BIGH3; CDB1; CDG2; CDGG1; CSD; CSD1; CSD2; CSD3; EBMD; LCD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG200411 representing NM_000358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCTCTTCGTGCGGCTGCTGGCTCTCGCCCTGGCTCTGGCCCTGGGCCCGCCGCGACCCCTGGCGG
 GTCCCGCAAGTCGCCCTACCAGCTGGTCTGCAGCACAGCAGGCTCCGGGGCCGCGCAGCACGGCCCAA
 CGTGTGTGCTGTGCAGAAGGTTATTGGCACTAATAGGAAGTACTTCACCAACTGCAAGCAGTGGTACCAA
 AGGAAAATCTGTGGCAAATCAACAGTCATCAGCTACGAGTGTCTCTGGATATGAAAAGGTCCTGGGG
 AGAAGGGCTGTCCAGCAGCCCTACCACTCTCAAACCTTTACGAGACCCTGGGAGTCGTTGGATCCACCAC
 CACTCAGCTGTACACGGACCGCACGGAGAAGCTGAGGCCCTGAGATGGAGGGGCCCGCAGCTTCACCATC
 TTCGCCCTAGCAACGAGGCCTGGGCCTCCTTGCCAGTGAAGTGTGGACTCCCTGGTCAGCAATGTCA
 ACATTGAGCTGCTCAATGCCCTCCGCTACCATATGGTGGCAGGGCAGTCTGACTGATGAGCTGAAACA
 CGGCATGACCCTCACCTCTATGTACCAGAAATCCAACATCCAGATCCACCCTATCTAATGGGATTGTA
 ACTGTGAACTGTGCCCGGCTGTGAAAGCCGACCACCATGCAACCAACGGGGTGGTGCACCTCATCGATA
 AGGTCATCTCCACCATACCAACAACATCCAGCAGATCATTGAGATCGAGGACACCTTTGAGACCCTTCG
 GGCTGCTGTGGCTGCATCAGGGCTCAACACGATGCTTGAAGGTAACGGCCAGTACACGCTTTTGGCCCCG
 ACCAATGAGGCCTTCGAGAAGATCCCTAGTGAGACTTTGAACCGTATCCTGGGCGACCCAGAAGCCCTGA
 GAGACCTGCTGAACAACCACATCTTGAAGTCAGCTATGTGTGCTGAAGCCATCGTTGCGGGGCTGTCTGT
 GGAGACCTGGAGGGCACGACTGGAGGTGGGCTGCAGCGGGGACATGCTCACTATCAACGGGAAGGGC
 ATCATCTCCAATAAAGACATCTTAGCCACCAACGGGGTGTACTACTACATTGATGAGCTACTCATCCCAG
 ACTCAGCCAAGCACTATTTGAATTGGCTGCAGAGTCTGATGTGTCCACAGCCATTGACCTTTTCAGACA
 AGCCGGCCTCGCAATCATCTCTCTGGAAGTGAGCGGTTGACCCTCCTGGCTCCCCTGAATTCTGTATTC
 AAAGATGGAACCCCTCCAATTGATGCCATACAAGGAATTTGCTTCGGAACCACATAATTAAGACCAGC
 TGGCCTCTAAGTATCTGTACCATGGACAGACCCTGAAACTCTGGGCGGCAAAAACTGAGAGTTTTTGT
 TTATCGTAATAGCCTTTGCATTGAGAACAGCTGCATCGCGGCCACGACAAGAGGGGGAGGTACGGGACC
 CTGTTACGATGGACCGGGTGTGACCCCCCAATGGGGACTGTCATGGATGTCTGAAGGGAGACAATC
 GCTTTAGCATGCTGGTAGCTGCCATCCAGTCTGCAGGACTGACGGAGACCCTCAACCGGGAAGGAGTCTA
 CACAGTCTTCGCTCCACAAATGAAGCCTTCGAGCCCTGCCACCAAGAGAACGGAGCAGACTCTTGGGA
 GATGCCAAGGAATTGCCAACATCCTGAAATACCACATTTGGTGTGAAATCCTGGTTAGCGGAGGCATCG
 GGGCCCTGGTGGCTAAAGTCTCTCAAGGTGACAAGCTGGAAGTCAGCTTGAAAAACAATGTGGTGAG
 TGTCAACAAGGAGCCTGTTGCCGAGCCTGACATCATGGCCACAAATGGCGTGGTCCATGTATCACC
 GTTCTGCAGCCTCCAGCCAACAGACCTCAGGAAAGAGGGGATGAACTTGCAGACTCTGCGCTTGAGATCT
 TCAAACAAGCATCAGCGTTTTCCAGGGCTCCAGAGGTCTGTGCGACTAGCCCCGTCTATCAAAGTT
 ATTAGAGAGGATGAAGCAT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG200411 representing NM_000358
 Red=Cloning site Green=Tags(s)

```

MALFVRLALALALGPAATLAGPAKSPYQLVLQHSRLRGRQHGPNVCAVQKVIGTNRKYFTNCKQWYQ
RKICGKSTVISYECCPGYEKVPGEKGCPAALPLSNLYETLGVVSTTTQLYTDRETKLRPEMEGPGSFTI
FAPSNEAWASLPAEVLDSLVSNNIELLNALRYHMVGRRLTDELKHGMLTSMYQNSNIQIHHYPNGIV
TVNCARLLKADHHATNGVVHLIDKVIISTITNNIQQIEIEDTFETLRAAVAASGLNTMLEGNGQYTLAP
TNEAFEKIPSETLNRILGDPEALRDLLNNHILKSAMCAEATVAGLSVETLEGTTLLEVGCSDMLTINGKA
IISNKDILATNGVIHYIDELLIPDSAKTLFELAAESDVSTAIDLFRQAGLGNHLSGSRLLTLLAPLNSVF
KDGTPPIDAHRNLLRNHIKDKLASKYLYHGQTLLETGGKLRVVFYRNSLCIENS CIAAHDKRGRYGT
LFTMDRVLTPPMGTVMVDLKGDNRF SMLVAIQSAGL TETLNREGVYTVFAPTNEAFRALPPRERSRLLG
DAKELANILKYHIGDEILVSGGIGALVRLKSLQGDKLEVLKNNVSVNKEPVAEPDIMATNGVVHVITN
VLQPPANRPQERGDLEADSALEIFKQASAFSRASQRSVRLAPVYQKLLERMKH
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000358

ORF Size: 2049 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_000358.1](#), [NP_000349.1](#)

RefSeq Size: 2691 bp

RefSeq ORF: 2052 bp

Locus ID: 7045

UniProt ID: [Q15582](#)

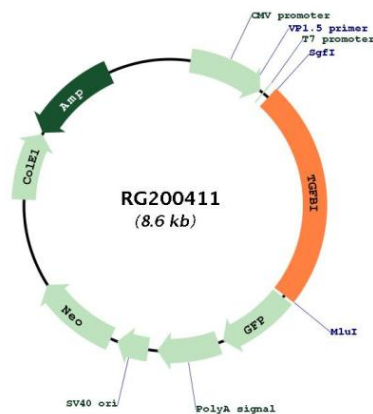
Cytogenetics: 5q31.1

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]

Product images:



Circular map for RG200411