

## Product datasheet for **RG206534**

### Fibromodulin (FMOD) (NM\_002023) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fibromodulin (FMOD) (NM_002023) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fibromodulin
Synonyms:	FM; SLRR2E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206534 representing NM_002023 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGTGGACCTCCCTCCTGCTGCTGGCAGGGCTCTTCTCCCTCTCCAGGCCAGTATGAAGATGACC  
CTCATTGGTGGTCCACTACCTCCGAGCCAGCAGTCCACCTACTACGATCCCTATGACCCTTACCCGTA  
TGAGACCTACGAGCCTTACCCCTATGGGGTGGATGAAGGGCCAGCCTACACCTACGGCTCTCCATCCCT  
CCAGATCCCCGCGACTGCCCCAGGAGTGCAGTGCACCCACCAACTTCCCACGGCCATGTACTGTGACA  
ATCGCAACCTCAAGTACCTGCCCTTCGTTCCCTCCCGCATGAAGTATGTGTACTTCCAGAACACCAGAT  
CACCTCCATCCAGGAAGGCGTCTTTGACAATGCCACAGGGCTGCTCTGGATTGCTCTCCACGGCAACCAG  
ATCACCAGTGATAAGGTGGGCAGGAAGGCTTCTCCAAGCTGAGGCACCTGGAGAGGCTGTACCTGGACC  
ACAACAACCTGACCCGGATGCCCGGTCCCTGCCTCGATCCCTGAGAGAGCTCCATCTCGACCACAACCA  
GATCTCACGGGTCCCAACAATGCTCTGGAGGGCTGGAGAACCTCACGGCCTTGTACCTCCAACACAAT  
GAGATCCAGGAAGTGGGCAGTTCATGAGGGCCCTCCGGTCACTGATCTTGTCTGGACCTGAGTTATAACC  
ACCTTCGGAAGGTGCCTGATGGGCTGCCCTCAGCTCTTGAGCAGCTGTACATGGAGCACAACAATGTCTA  
CACCGTCCCCGATAGCTACTTCCGGGGGGCGCCCAAGCTGCTGTATGTGGCGCTGTCCACAACAGTCTA  
ACCAACAATGGCCTGGCCTCCAACACCTTCAATTCCAGCAGCCTCCTTGAGCTAGACCTCTCTACAACC  
AGCTGCAGAAGATCCCCCAGTCAACACCAACCTGGAGAACCTTACCTCCAAGGCAATAGGATCAATGA  
GTTCTCCATCAGCAGCTTCTGCACCGTGGTGGACGTCGTGAACCTTCTCCAAGCTGCAGGTGCTGCGCCTG  
GACGGGAACGAGATCAAGCGCAGCGCCATGCCTGCCGACGCGCCCTCTGCCTGCGCCTTGCCAGCCTCA  
TCGAGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206534 representing NM\_002023  
 Red=Cloning site Green=Tags(s)

MQWTSLLLLLAGLFSLSQAQYEDDPHWWFHYLRSQQSTYYDPYDPYPYETEPYPYGVDEGPAYTYGSPSP  
 PDPRDCPQECDCPPNFTAMYCDNRNLKYLFPVPSRMKYVYFQNNQITSIQEGVFDNATGLLWIALHGNQ  
 ITSDKVGRKVFSKLRHLERLYLDHNNL TRMPG LPRSLRELHLDHNQISRVPNNALEGLNLTALYLQHN  
 EIQEVGSSMRGLRSLILLDL SYNHLRKVPDGLPSALEQL YMEHNNVYTPDSYFRGAPKLLYVRLSHNSL  
 TNNGLASNTFNSSSLELDL SYNQLQKIPPVNTNLENLYLQGNRINEFSISSFCTVVDVVFNSKLVRLRL  
 DGNEIKRSAMPADAPLCLRLASLIEI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002023

**ORF Size:** 1128 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\\_002023.5](#)

**RefSeq Size:** 3005 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 2331

**UniProt ID:** [Q06828](#)

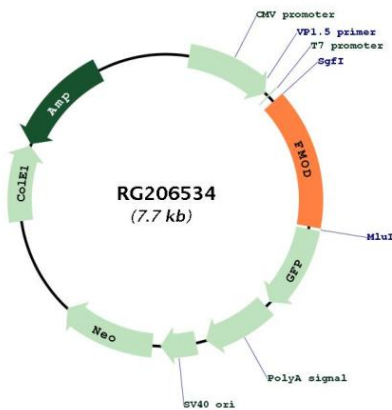
**Cytogenetics:** 1q32.1

**Domains:** LRRNT, LRR, LRR\_TYP, LRR\_BAC, LRR\_PS

**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** Fibromodulin belongs to the family of small interstitial proteoglycans. The encoded protein possesses a central region containing leucine-rich repeats with 4 keratan sulfate chains, flanked by terminal domains containing disulphide bonds. Owing to the interaction with type I and type II collagen fibrils and in vitro inhibition of fibrillogenesis, the encoded protein may play a role in the assembly of extracellular matrix. It may also regulate TGF-beta activities by sequestering TGF-beta into the extracellular matrix. Sequence variations in this gene may be associated with the pathogenesis of high myopia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]

### Product images:



Circular map for RG206534