

Product datasheet for **RG200715**

Biglycan (BGN) (NM_001711) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Biglycan (BGN) (NM_001711) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Biglycan |
| Synonyms: | DSPG1; MRLS; PG-S1; PGI; SEMDX; SLRR1A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG200715 representing NM_001711 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCCCTGTGGCCCTCGTGTCTCTGCTGGCCCTGAGCCAGGCCCTGCCCTTTGAGCAGAGAGGCT
TCTGGGACTTCACCCTGGACGATGGGCCATTATGATGAACGATGAGGAAGCTTCGGGCGCTGACACCTC
AGGCGTCTGGACCCGGACTCTGTACACCCACCTACAGCGCCATGTGTCCTTTCGGCTGCCACTGCCAC
CTGCGGGTGGTTCAGTGTCCGACCTGGGTCTGAAGTCTGTGCCAAAGAGATCTCCCTGACACCACGC
TGCTGGACCTGCAGAACAACGACATCTCCGAGCTCCGCAAGGATGACTTCAAGGGTCTCCAGCACCTCTA
CGCCTCGTCTGGTGAACAACAAGATCTCCAAGATCCATGAGAAGGCCTTCAGCCCACTGCGGAAGCTG
CAGAAGCTCTACATCTCCAAGAACCACCTGGTGGAGATCCCGCCAACCTACCCAGCTCCCTGGTGGAGC
TCCGCATCCACGACAACCGCATCCGCAAGGTGCCAAGGGAGTGTTCAGCGGGCTCCGGAACATGAACTG
CATCGAGATGGGCGGGAACCCACTGGAGAACAGTGGCTTTGAACCTGGAGCCTTCGATGGCTGAAGCTC
AACTACCTGCGCATCTCAGAGGCCAAGCTGACTGGCATCCCCAAAGACCTCCCTGAGACCCTGAATGAAC
TCCACCTAGACCACAACAAAATCCAGGCCATCGAACTGGAGGACCTGCTTCGCTACTCCAAGCTGTACAG
GCTGGGCTAGGCCACAACCAGATCAGGATGATCGAGAACGGGAGCCTGAGCTTCTGCCACCCCTCCGG
GAGCTCCACTTGGACAACAACAAGTTGGCCAGGGTGCCCTCAGGGCTCCAGACCTCAAGCTCCTCCAGG
TGGTCTATCTGCACTCCAACAACATCACCAAAGTGGGTGTCAACGACTTCTGTCCATGGGCTTCGGGGT
GAAGCGGGCTACTACAACGGCATCAGCCTCTTCAACAACCCCGTGCCCTACTGGGAGGTGCAGCCGGCC
ACTTTCGCTGCGTCACTGACCGCTGGCCATCCAGTTTGGCAACTACAAAAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200715 representing NM_001711
 Red=Cloning site Green=Tags(s)

MWPLWRLVSLALSQLPFEQRGFWDFTLDDGPFMMNDEEASGADTSGVLDPDSVTPTYSAMCPFGCHCH
 LRVVQCSDLGLKSVPEISPDITLLDLQNDISELRKDDFKGLQHLVALVNNKISKIHEKAFSPLRKL
 QKLYISKNHLEIPPPLPSSLVELRIHDNRIRKVPKGVFSGLRNMNCIEMGGNPLENSGFEPGAFDGLKL
 NYLRRISEAKLTGIPKDLPETLNELHLDHNKIQAIELEDLLRYSKLYRGLGHNQIRMIENGLSFLPTLR
 ELHLDNNKLARVPSGLPDLKLLQVYVYLHNNITKVGVDNDFCPMGFGVKRAYYNGISLFNNPVPYWEVQPA
 TFRCVTDRLAIQFGNYKK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1916_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001711

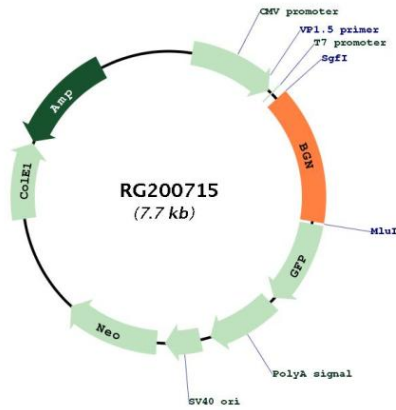
ORF Size: 1104 bp

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](#)

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| 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: | <ol style="list-style-type: none">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_001711.2 |
| RefSeq Size: | 2401 bp |
| RefSeq ORF: | 1107 bp |
| Locus ID: | 633 |
| UniProt ID: | P21810 |
| Cytogenetics: | Xq28 |
| Domains: | LRRNT, LRR, LRR_TYP, LRR_PS |
| Protein Families: | Secreted Protein |
| Gene Summary: | This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein, which plays a role in bone growth, muscle development and regeneration, and collagen fibril assembly in multiple tissues. This protein may also regulate inflammation and innate immunity. Additionally, the encoded protein may contribute to atherosclerosis and aortic valve stenosis in human patients. This gene and the related gene decorin are thought to be the result of a gene duplication. [provided by RefSeq, Nov 2015] |

Product images:



Circular map for RG200715