

Product datasheet for **MC200576**

Bgn (BC005452) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bgn (BC005452) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bgn
Synonyms:	BG, PGI, DSPG1, PG-S1, SLRR1A
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005452
 CCCACGCGTCCGAGGAGCGAGCAGCTGCTCCCGTTGGCCCTGACGGACAGACAAACCGACAGCCTGAC
 AACCTAGTCCACCAACTAAGCAGCCTGCACCTGGCTGCTTGTCCTCCCCAGGAACATTGACCATGTGTC
 CCCTGTGGCTACTCACCTTGGCTGCTGGCCCTGAGCCAGGCCTTGCCTTTGAGCAGAAGGGTTTCTGGGA
 TTTCACCTTGGATGATGGGCTGCTCATGATGAATGATGAGGAGGCTTTCAGTTTTCAGACACCACTTCAGGT
 GTCCCCGACCTGGACTCTGTACACCTACCTTCAGTGCCATGTGTCTTCGGTTGCCACTGCCACCTGC
 GGTTGTTTCAGTCTGACTTGGGTCTGAAGACTGTGCCAAGGAGATCTCACCTGACACCACACTGCT
 AGACCTGCAGAACAATGACATTTCTGAGCTTCGCAAGGATGACTTCAAAGGCCTCCAGCACCTCTACGCC
 CTGGTCTTGGTAAACAATAAGATCTCCAAGATCCATGAGAAGGCCTTTAGCCCTCTGCGGAAGCTGCAAAA
 AACTCTACATCTCCAAGAACCACCTGGTGGAGATTCTCCAACCTGCCAGCTCCCTGGTGAAGTACG
 AATCCATGACAACCGTATCCGCAAAGTGCCCAAGGGCGTGTTCAGCGGGCTCCGGAACATGAACTGCATT
 GAGATGGCGGGAATCCCTGGAGAACAGTGGCTTTGAACCAGGAGCCTTTGATGGCCTGAAGCTCAATT
 ACCTGCGCATCTCAGAGGCCAAGCTCACTGGCATCCCCAAAGATCTCCCTGAGACCCTGAACGAACCTCA
 CCTGGACCACAACAAAATCCAGGCTATTGAGTTGGAGGACCTACTTCGATACTCCAAGCTGTACAGTTG
 GGCTTAGTGCACAATCAGATTCCGATGATTGAGAATGGGAGCCTGAGTTTCTGCCTACCCTGAGGGAAC
 TCACTTGGACAACAACAGCTGTCCCGGTGCCTGCTGGCCTCCAGATCTCAAGCTCCTCCAGGTTGT
 CTATCTGCACTCCAACAACATCACCAAGGTGGGCATCAATGACTTCTGTCTATGGGCTTCGGAGTCAAG
 AGGGCCTACTATAATGGCATCAGCCTCTTCAACAACCCTGTGCCCTACTGGGAAGTGCAGCCTGCCACCT
 TCCGCTGCGTTACTGACCGCCTGGCCATCCAATTTGGAATTATAAGAAGTAGAGGCAGTGGTTGCCACC
 ATGGTGGCCTTGGTGAGAGTCTCTGAGGAACATAGCCAGATGAAGAAGCAACACCTTTGTTCCCAATAT
 TAACTCACTGCCCCACCACAGCTTCCCCTGACTCCTAAGCATGCATATATGCACATGGCCTGGCCCTCT
 CACCCATCCCCTCAACCTTTGAAATTTAACATTCATCAACCATGTCCACTCAGAGACTCCCTATAAATC
 TTTCTTTGCTCATCCTGAAACTCAGATGTTTTTGGCAAGAGGGGCTAGGAAAGATGGATAGAGCACAC
 TGCCACCGCCATTGTTCCATCCAGGCATGTGTTCCCTCCTTCTTCTGCTCATGTCTGACTTCCAGTCTC
 CTGGGCTCTGCTTGTGCTGCCCTTATCCTCTGGTGTCTCTTCAACAAGTTCACTACCTGTCAATCCCAG
 CTACAACCTGGTGTACTAACTCCTGGATCTTCCCTCTCTCCAACCCTGTTATGCTTCCCTGACACTTTT
 CTTCTTCTGGAGTTATTGACCTGTCCCCTCCATCTCTGGACCTAGGTCATATTTCTCCATCTTTGTCT
 CTTTCTGTATCTCCTTGCTATATCTCTGTCTGTCTATTTCTGTCTCTGTCTGTGTATCTCTCT
 ATCTTTGTATCTGTCTCTCTGACAACGGAT
 CATCTGCCCCAGGCTGCTTTCTGCTTACAGGTCTCTAGCCAGTCCCTCCACAACAAAATATGGGGCAAC
 TATCTTCTGATTGCCCTACCCAGAACTGACCCCAACCTGGAGGAAGCTGGAAGGTGGAGGCCAG
 AATCCTGTCCATTTGTCCAGGAAAGGGTTCATCTCTGCTATCAAGACGAGGATCAAGGAGCTTCTAG
 CCCCTGGAGAGGCTCAGCAGGCCATCAGAGCCGCGAGAACCAGTTTGCATTGGCCCTGCTCTCTCCCCA
 AGATGGCTAGGTCCTCCCTCACCCCTGGGTCCTGATGTGGTAGGAGGTGATGGTCAGTTGCACCCAG
 CAAGAGGGAGTGCTGCTTATGAGGTCAGTTGTCTCTCAATTAAGAAACACTGTGCAAAAAAAAAAAAAAAA AAA

Restriction Sites: RsrII-NotI

ACCN: BC005452

Insert Size: 1110 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC005452](#), [AAH05452](#)

RefSeq Size: 2383 bp

RefSeq ORF: 1110 bp

Locus ID: 12111

Cytogenetics: X 37.33 cM

Gene Summary: This gene encodes a small, leucine-rich repeat proteoglycan that plays important roles in bone mineralization and connective tissue metabolism. The encoded preproprotein undergoes post-translational processing during which chondroitin sulfate or dermatan sulfate chains are attached before incorporation into the extracellular matrix. Mice lacking the encoded protein exhibit reduced growth rate and acquire diminished bone mass progressively with age. [provided by RefSeq, Oct 2015]