

Specifications:

Gene:	mBgn
Accession:	NP_031568
Insert size:	1123bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

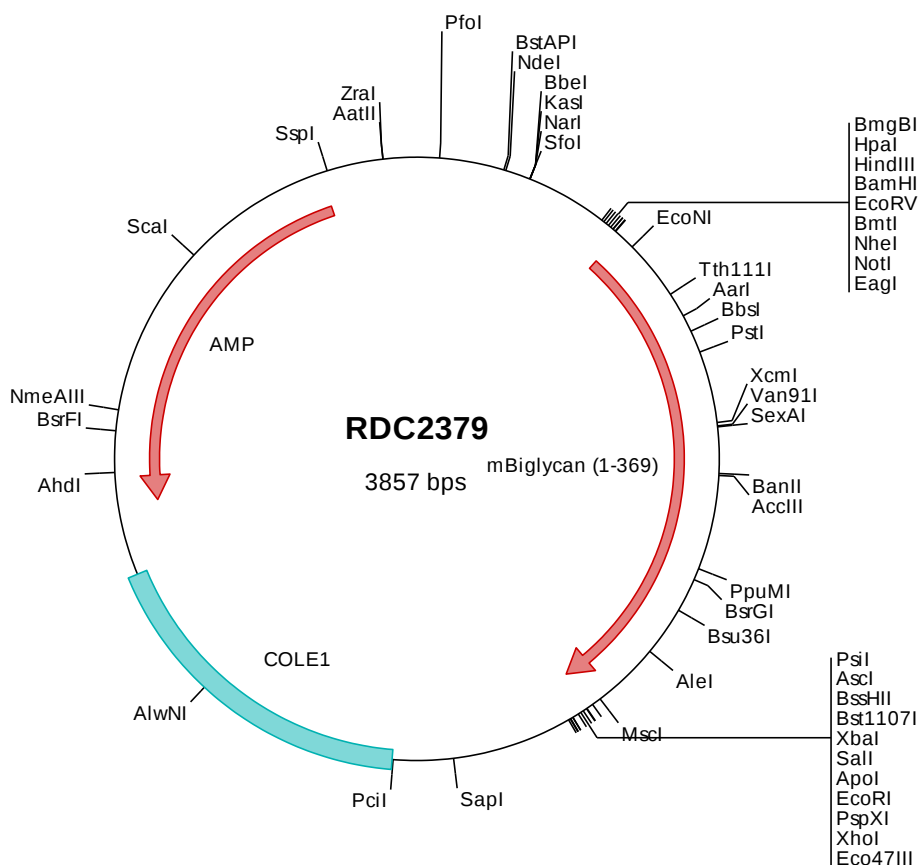
mBiglycan cDNA Plasmid

Bgn biglycan [*Mus musculus* (house mouse)]

Also known as: BG; PGI; DSPG1; PG-S1; SLRR1A

Summary:

Biglycan is a small, leucine-rich repeat proteoglycan that plays important roles in bone mineralization and connective tissue metabolism. It undergoes post-translational processing during which chondroitin sulfate or dermatan sulfate chains are attached before incorporation into the extracellular matrix. Mice lacking Biglycan exhibit reduced growth rate and acquire diminished bone mass progressively with age.



> RDC2379 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaaac tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgtcg caaggcgatt aagtgtggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatt
401  ggagacgtgt taacaagctt ggtccgata tcgctagcgc ggccggccacc atgtgtcccc tgttgctact cacttctgtg ctggccctga gccaggcctt
501  gcccttttag cagaagggtt tctgggaactt cacttggat gatgggtcgc tcatgatgaa tgatgaggag gottcaggtt cagacaccac ttcaggtgtc
601  cccgacctgg actctgtcac acctaccttc agtgccatgt gtcccttcgg ttgccaactgc cactcgcggtt ttgttcagtgt ctctgaacttg ggtctgaaga
701  ctgtgcccac ggagatctca cctgacacca cactgctaga cctgcagAAC aatgacattt ctgagcttcg caaggatgac ttcaaaaggcc tccagcacct
801  ctacgcccctg gtctctgtaa acaataagat ctccaagatc catgagaagg ccttttagccc tctgcggaag ctgcaaaaac tctacatctc caagaaccac
901  ctggtggaga ttctctccaa cctgcccagc tccctgtagt aactacgaat ccatgacaac cgtatccgca aagtgcacaa gggcggtgttc agcgggctcc
1001  ggaacatgaa ctgcattgag atgggggga atcccctgga gaacagtggc ttgaaaccag gagcctttga tggcctgaag ctcaattacc tgcgcatctc
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1201  cttcgatact ccaagctgta caggttgggc tttagtcaac atcagattcg gatgatttag aatgggagcc tgagttttct gctacccttg agggaaactt
1301  acttggacaa caacaagctg tcccggtgct ctgctggcct ccagatcttc aagctctctc aggttgtcta totgcactgc aacaacatca ccaaggtggg
1401  catcaatgac ttctgtctca tgggtctcgg agtcaagagg gcctactata atggcatcag cctcttcaac aacctgtgct cctactggga agtgcagcct
1501  gccaccttec gctgogttac tgaccgctc gccatccaat ttggaaatta taagaagtaa aggcgcgcca gtatactcta gactcgacac ccggggaatt
1601  cctcgagcgc tcgtctctag cttggcgtaa tcatggtcat agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa
1701  gcataaagtg taaagcctgg ggtgcctaata gactgagcta actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca
1801  gctgcattaa tgaatcgccg aacgcgcggg gagagggcgt ttgcgtattg ggcgtctctc cgtctctcgc ctactgaact cgtcgcgtc ggtcgttcgg
1901  ctgcggcgag cgttatcagc tcaactcaag gcggttaata ggttatccac gctgctccag agaatcaggg gataacgcag gaaagaacat gtgagcaaaa gcccagcaaa
2001  agggccaggaa ccgtaaaaag gccgcgttgc tggcgttttt ccataggctc cgccccctg acgagcatca caaaaatcga cgctcaagtc agaggtggcg
2101  aaaccgcaca ggaactataa gataccaggc gtttccccct ggaagctccc tctgctctcc tctgttccg accctgccc ttaccggata cctgtccgcc
2201  tttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtagtta tctcagttcg gttaggttgc ttgcctcaa gctgggctgt gtgcacgaac
2301  cccccgttca gcccgaccgc tgcgccttat ccggttaacta tctgtcttag tccaaccctg taagacacga cttatcgcca ctggcagcag ccaactggtta
2401  caggattagc agagcagggt atgtaggcgg tgtacacagag ttcttgaagt ggtggcctac ctacggctac cagtatttgg tatctgcgct
2501  ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgtagcgg caaacaacac accgctggta cgggtggttt ttttgtttgc aagcagcaga
2601  ttacgcgcag aaaaaaaggga tctcaagaag atcctttgat cttttctacg ggtgtctgac ctcagtggaa cgtaaaactca cgttaaggga ttttggctat
2701  gagattatca aaaaggatct tcacctagat ccttttaaat taaaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggct tgacagttac
2801  caatgcttaa tcagttaggc acctatctca gcgactctgc tatttcgttc atccatagtt gcctgactcc ccgtcgtgta gataactacg atacgggagg
2901  gcttaccatc tggcccagct gctgcaatga taccgcgaga cccacgctca ccggtctcag atttatcagc aataaaccag ccagccggaa gggccgagcg
3001  cagaagtggg cctgcaactt tatccgcctc catccagctc attaattggt gccgggaagc tagagtaaht agttcgccag ttaatagttt gcgcaacgct
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3201  ttgtgtgcaa aaaagcgtt agctccttcg gtccctccgat cgttgtcaga agtaagtgg ccgcagtgtt atcactcatg gttatggcag cactgcataa
3301  ttctcttact gtcatgccat ccgtaagatg cttttctgtg actggtgagt actcaaccaa gtcattctga gaatagtgtg tgccggcagc gagttgctct
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3501  taccgctgtt gagatccagt tcatgttaac ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt tctgggtgag caaaaaacag
3601  aaggcaaaat gccgcaaaaa aggggaataag ggcgacacgg aaatggttgaa tactcatact cttccctttt caatattatt gaagcattta tcagggttat
3701  tgtctcatga gcggatacat atttgaatgt atttagaaaa ataaacaaat aggggttccg cgcacatttc ccgaaaagt gccacctgac gtctaagaaa
3801  ccattattat catgacatta acctataaaa ataggcgtag cacgagggcc tttcgtc

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> RDC2379 Translated Insert Sequence

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1   mcplwl1t1l lalsqalpfe qkgfwdftld dgl1mmndee asgsdttsgv pdldsvtptf samcpfgchc hlrvvqcsdl glktvpkeis pddtllldqn
101  ndiselrkdd fkg1qhllyal vlvnnkiski hekafsplrk lk1klyisknh lveippnlps slvelrihdn rirkvpkgvf sglrnmncie mgnplensg
201  fepgafdg1k lnylriaseak ltgipkdlpe tlnelhlhdn kiquaiele1 lrysklyrlg lghnqirmie ngslsflptl relhldnnkl srvpaglp1d
301  kllqvvy1hs nnitkvind fcpmfgvkr ayyngis1fn npvpywewgp atfrcvtdrl aiqfngnyk

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