



pBlueGreen - amiR Vector based on miR159b

1 10 20 30 40 50
| | | | | |
AGATCTCAAACAAACACATACAGCGACTTAGTTTACCCGCCAATATATCC
TGTC AAGG CCTTCATGTTCTTTCCCTGCGTTATCCCCTGATTCTGTGGATA
ACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACG
ACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGACGAGCGCCCAATACG
CAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACG
ACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTG
AGTTAGCTCACTCATTAGGCACCCAGGCTTTACACTTTATGCTTCCGGC
TCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTACACACAGGAAACA
GCTATGACCATGATTACGCCAAGCGCGCAATTAACCCTCACTAAAGGGAA
CAAAGCTGGAGCTCCACCGCGGTGGCGGCCGCTCGACGAATTAATTCCA
ATCCCACAAAATCTGAGCTTAACAGCACAGTTGCTCCTCTCAGAGCAGA
ATCGGGTATTCAACACCCTCATATCAACTACTACGTTGTGTATAACGGTC
CACATGCCGGTATATACGATGACTGGGGTTGTACAAAGGCGGCAACAAAC
GGCGTTCCCGGAGTTGCACACAAGAAATTTGCCACTATTACAGAGGCAAG
AGCAGCAGCTGACGCGTACACAACAAGTCAGCAAACAGACAGGTTGAACT
TCATCCCCAAAGGAGAAGCTCAACTCAAGCCCAAGAGCTTTGCTAAGGCC
CTAACAAGCCCACCAAAGCAAAAAGCCCACTGGCTCACGCTAGGAACCAA
AAGGCCCAGCAGTGATCCAGCCCCAAAAGAGATCTCCTTTGCCCCGGAGA
TTACAATGGACGATTTCTCTATCTTTACGATCTAGGAAGGAAGTTTCGAA
GGTGAAGGTGACGACACTATGTTCACTGATAATGAGAAGGTTAGCCT
CTTCAATTTCAGAAAGAATGCTGACCCACAGATGGTTAGAGAGGCCTACG
CAGCAGGTCTCATCAAGACGATCTACCCGAGTAACAATCTCCAGGAGATC
AAATACCTTCCAAGAAGGTTAAAGATGCAGTCAAAGATTCAGGACTAA
TTGCATCAAGAACACAGAGAAAGACATATTTCTCAAGATCAGAAGTACTA
TTCCAGTATGGACGATTCAAGGCTTGCTTCATAAACC AAGGCAAGTAATA
GAGATTGGAGTCTCTAAAAAGGTAGTTCTACTGAATCTAAGGCCATGCA
TGGAGTCTAAGATTCAAATCGAGGATCTAACAGAACTCGCCGTGAAGACT
GGCGAACAGTTCATACAGAGTCTTTTACGACTCAATGACAAGAAGAAAAT
CTTCGTCAACATGGTGGAGCACGACACTCTGGTCTACTCCAAAATGTCA
AAGATACAGTCTCAGAAGACCAAAGGGCTATTGAGACTTTTCAACAAAGG
ATAATTTTCGGGAAACCTCCTCGGATTCCATTGCCCAGCTATCTGTCACTT
CATCGAAAGGACAGTAGAAAAGGAAGGTGGCTCCTACAAATGCCATCATT
GCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCGACAGTGGTCCC
AAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCC
AACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAA
GGGATGACGCACAATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAA
GGAAGTTCATTTCAATTTGGAGAGGACACGCTCGAGGAATTCCTAGTGAT
TTCCTTTTGTCTCCTCCTCCCTTTTTTTCTTTTCAGGATTCCTCTTTT
CTATGTTTTATCTTTCATAATAGATCTGATAATTTTGATTTTTTCACTATA
TATATTATGGTTAATACTAGTAGCTTTTTTCATTTCAAGTTTTATCCTTCC
ATTGGTCTTTTCTGAGTCAAATTGTCTCCTGTTTCGAACCATATATAAGT
TTTCAATGGTTTTGTATTA ACTCAAGTATTC AACATTATGTCTCTCTTTT
TCTTGCTTGGATCTCTAATGCTGTT CATATTTTAAAGCATAGGTTTAGGT
TAGATGCATGTA ACTGCCAATTA AAAAGAAGGTCAAGAGTTTTTTGATTGT
ATGAATATATGAGTTAGTCAAAGCAGATCCACACGATTATATAGAAAAC

GAAGGAGCCACTCAGCCCCAATACGCAAACCGCCTCTCCCCGCGCGTGTGG
CCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGG
CAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCC
AGGCTTTACACTTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGC
GGATAACAATTTACACACAGGAAACAGCTATGACCATGATTACGCCAAGCT
ATTTAGGTGACACTATAGAATACTCAAGCTATGCATCCAACGCGTTGGGA
GCTCTCCCATATCGACCTGCAGGCGGCCGCACTAGTGATATCCCCGCGGCC
ATGGCGGCCGGGAGCATGCGACGTCTGGGCCCAATTCGCCCTATAGTGAGT
CGTATTACAATTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAAC
CCTGGCGTTACCCAACCTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAG
CTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGC
GCAGCCTGAATGGCGAATGGAAATTGTAAACGTTAATGGGTTTTCTGGAGT
TTAATGAGCTAAGCACATAACGTCAGAGGGAGCTCTTCATCTCTCCATCCC
TATCTCTCTCTCTCTATCTTTAGTTCTTTTAAGAATGACTTTTCATTT
TTTGTGTTGTCTGTTGCAGGTGTATAAACATGGATGATGGATCTTGAGTA
GGATTTTTTATTTTTATTTTTCTTGTGACATATATGCAATTTTTATGGTTTG
TACTTTGTATTTCCATTAGTTTTCGTACTTTTTCAGTTATGTATCATTGTTA
ATTCTAATGTTTGAAGACATTTAGAGTTTATACTTCTCTAAATTACTTTT
TCGACTCAATAAAGTCGTTTAAAGTGTCTGGGTTCGAAATCGATAAGCTTG
GATCCTCTAGAGTCCTGCTTTAATGAGATATGCGGAGACGCCTATGATCGC
ATGATATTTGCTTTCAATTCTGTTGTGCACGTTGTAAAAAACCTGAGCAT
GTGTAGCTCAGATCCTTACCGCCGGTTTTCGGTTCAATCTAATGAATATAT
CACCCGTTACTATCGTATTTTTTATGAATAATATTCCTCCGTTCAATTTACT
GATTGTACCCTACTACTTATATGTACAATATTTAAAATGAAAACAATATAT
TGTGCTGAATAGGTTTATAGCGACATCTATGATAGAGCGCCACAATAACA
AACAAATTGCGTTTTTATTATTACAAATCCAATTTTTAAAAAAGCGGCAGAA
CCGGTCAAACCTAAAAGACTGATTACATAAATCTTATTCAAATTTCAAAA
GGCCCCAGGGGCTAGTATCTACGACACACCGAGCGGCGAACTAATAACGT
TCACTGAAGGGAACCTCCGGTTCGCCGCGGCGCGCATGGGTGAGATTCCCT
TGAAGTTGAGTATTGGCCGTCCGCTCTACCGAAAGTTACGGGCACCATTC
AACCCGGTCCAGCACGGCGGCCGGGTAAACCGACTTGCTGCCCCGAGAATT
ATGCAGCATTTTTTTGGTGTATGTGGGCCCAAATGAAGTGCAGGTCAA
CCTTGACAGTGACGACAAATCGTTGGGCGGGTCCAGGGCGAATTTTTGCGA
CAACATGTTCGAGGCTCAGCAGGACCTGCAGGAATTCGATATCAAGCTTAT
CGATAACGTCGACCTCGAGGGGGGGCCCGGTACCCAATTCGCCCTATAGT
GAGTCGTATTACGCGCGCTCACTGGCCGTCGTTTTACAACGTCGTGACTG
GGAAAACCCTGGCGTTACCCAACCTAATCGCCTTGCAGCACATCCCCCTT
TCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAA
CAGTTGCGCAGCCTGAATGGCGAATGGAAATTGTAAGCGTTAATGTTATC
GATCATGAGCGGAGAATTAAGGGAGTCACGTTATGACCCCCGCCGATGAC
GCGGGACAAGCCGTTTTTACGTTTTGGAACCTGACAGAACC GCAACGTTGAAG
GAGCCACTGAGCCGCGGGTTTTCTGGAGTTTAATGAGCTAAGCACATAACGT
CAGAAACCATTATTGCGCGTTCAAAAAGTCGCCTAAGGTCCTATCAGCTA
GCAAATATTTCTTGTCAAAAATGCTCCACTGACGTTCCATAAATTCCCCT
CGGTATCCAATTAGAGTCTCATATTCCTCACTCAACTCGATCGAGGGGATC
TACCATGAGCCAGAACGACGCCCGGCGACATCCGCCGTGCCACCGAGG
CGGACATGCCGGCGGTCTGCACCATCGTCAACCACTACATCGAGACAAGC
ACGGTCAACTTCCGTACCGAGCCGCAGGAACCGCAGGAGTGGACGGACGA
CCTCGTCCGTCTGCGGGAGCGCTATCCCTGGCTCGTCGCCGAGGTGGACG
GCGAGGTCGCCGGCATCGCCTACGCGGGTCCCTGGAAGGCACGCAACGCC
TACGACTGGACGGCCGAGTCGACCGTGTACGTCTCCCCCGCCACCAGCG

CACAGGGCTTCAAGAGCGTGGTCGCTGTCATCGGGCTGCCCAACGACCCG
AGCGTGCGCATGCACGAGGCGCTCGGATATGCCCCCGCGGCATGCTGCG
GGCGGCCGGCTTCAAGCACGGGAAGTGGCATGACGTGGGTTTCTGGCAGC
TGGACTTCAGCCTGCCGGTGCCGCCCCGTCCGGTCCTGCCCGTCACCGAA
ATCTGATGACCCCTAGAGTCAAGCAGATCGTTCAAACATTTGGCAATAAA
GTTTCTTAAGATTGAATCCTGTTGCCGGTCTTGCGATGATTATCATATAA
TTTCTGTTGAATTACGTTAAGCATGTAATAATTAACATGTAATGCATGAC
GTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTT
AATACGCGATAGAAAACAAAATATAGCGCGCAAAC TAGGATAAAATTATCG
CGCGCGGTGTCATCTATGTTACTAGATCGACCGGCATGCAAGCTGATAAC
GTTACACCACAATATATCCTGCCAAGATCTAATTCGGGGGATCGGAAATC
CAGAAGCCCAGAGGTTGCCGCCTTTCGGGCTTTTTCTTTTTCAAAAAA
AAAATTTATAAAACGATCTGTTGCGGCCGGCCGCCGGGTTGTGGGCAAAG
GCGCTCGACGGTGGGCAACCGCTTGCGGTTGTCCACGGGCGGAGCCGGTG
CGCGTAGCGCATTGTCCACAAGCCAAGGGCGACCAATAATTGATATATAT
ATTCATAATTGAAAAGCTAATTGAACATACTACTTGCTGTTACTACTTGC
CGGAGCGAGGGGTGTTTGCAAGCTGTTGATCTGAAAGGGCTATTAGCGTT
CTCACGTGCCTTTTTGATTAGCGATTTACGTGACCTTATTAGCGATTTTC
ACGTA CTCCGATTAGCGATTTACGTACCCTGATTAGCGATTTACGTGG
ATAGTTTTTGGAGCGGGCCGGAAAGCCCCGTGAATCAAGGCTTTGCGGGG
CATTAGCGGTTTACGTGGATAACTACCCTCTATCCACAGGCTTCCGGGG
ATAAAAAGCCCCTCGACGGCGGGCTGTTGGATGGGGATCGCCTGAATC
GCCCCATCATCCAGCCAGAAAGTGAGGGAGCCACGGTTGATGAGAGCTTT
GTTGTAGGTGGACCAGTTGGTGATTTTGAACTTTTGCTTTGCCACGGAAC
GGTCTGCGTTGTGCGGAAGATGCGTGATCTGATCCTTCAACTCAGCAAAA
GTTTCGATTTATTCAACAAAGCCACGTTGTGTCTCAAATCTCTGATGTTA
CATTGCACAAGATAAAAATATATCATCATGAACAATAAAACTGTCTGCTT
ACATAAACAGTAATACAAGGGGTGTTATGAGCCATATTCAACGGGAAACG
TCTTGCTCAAGGCCGCGATTAAATCCAACATGGATGCTGATTTATATGG
GTATAAATGGGCTCGCGATAATGTCGGGCAATCAGGTGCGACAATCTACC
GATTGTATGGGAAGCCCGATGCGCCAGAGTTGTTTCTGAAACATGGCAAA
GGTAGCGTTGCCAATGATGTTACAGATGAGATGGTCAGACTAAACTGGCT
GACGGAATTTATGCCTCTTCCGACCATCAAGCATTTTATCCGTA CTCTG
ATGATGCATGGTTACTCACC ACTGCGATCCAGGGAAAACAGCATTCAG
GTATTAGAAGAATATCCTGATTCAGGTGAAAATATTGTTGATGCGCTGGC
AGTGTTCTGCGCCGGTTGCATTCGATTCCTGTTTGTAAATTGTCCTTTTA
ACAGCGATCGCGTATTTGCTCTCGCTCAGGCGCAATCACGAATGAATAAC
GGTTTGGTTGATGCGAGTGATTTTGATGACGAGCGTAATGGCTGGCCTGT
TGAACAAGTCTGAAAGAAATGCATAAACTTTTGCCATTCTCACCGGATT
CAGTCGTCACTCATGGTGATTTCTCACTTGATAACCTTATTTTTGACGAG
GGGAAATTAATAGGTTGTATTGATGTTGGACGAGTCGGAATCGCAGACCG
ATACCAGGATCTTGCCATCCTATGGA ACTGCCTCGGTGAGTTTTCTCCTT
CATTACAGAAACGGCTTTTTCAAAAATATGGTATTGATAATCCTGATATG
AATAAATTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATCACTAGA
CCAATGTTACACATATATACTTTAGATTGATTTAAACTTCATTTTTAAT
TTAAAAGGATCTAGGTGAAGATCCTTTTTTGATAATCTCATGACCAAAATC
CCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGAT
CAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGC
AAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAAGAG
CTACCAACTCTTCTTCCGAAGGTA ACTGGCTTCAGCAGAGCGCAGATACC
AAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACC ACTTCAAGA ACT
CTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCT

GTTACCGGATAAGGCGCAGCGGTCTGGGCTGAACGGGGGGTTCGTGCACAC
AGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGT
GAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCCGGACAGGTA
TCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAG
GGGAAACGCCTGGTATCTTTATAGTCCTGTCGGGTTTCGCCACCTCTGA
CTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGCGGAGCCTATGGAA
AAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTT
TTGCTCACATG

| Name | Type | Minimum ▼ | Maximum | Length | Direction |
|----------------------------|----------------|-----------|---------|--------|-----------|
| Rep_Origin_1 | rep_origin | 7,240 | 7,894 | 655 | reverse |
| NPT I | CDS | 6,277 | 7,092 | 816 | forward |
| Rep_Origin_2 | rep_origin | 5,440 | 5,987 | 548 | reverse |
| Left Border | repeat_regi... | 5,400 | 5,424 | 25 | reverse |
| nos terminator | misc_feature | 5,121 | 5,380 | 260 | forward |
| BAR | CDS | 4,555 | 5,106 | 552 | forward |
| nos promoter | promoter p... | 4,251 | 4,534 | 284 | forward |
| Clal | restriction... | 4,248 | 4,253 | 6 | none |
| KpnI | restriction... | 4,029 | 4,034 | 6 | none |
| XhoI | restriction... | 4,014 | 4,019 | 6 | none |
| Clal | restriction... | 3,999 | 4,004 | 6 | none |
| HindIII | restriction... | 3,993 | 3,998 | 6 | none |
| EcoRI | restriction... | 3,981 | 3,986 | 6 | none |
| OCS Terminator | misc_feature | 3,256 | 3,980 | 725 | forward |
| XbaI | restriction... | 3,256 | 3,261 | 6 | none |
| BamHI | restriction... | 3,250 | 3,255 | 6 | none |
| HindIII | restriction... | 3,244 | 3,249 | 6 | none |
| Clal | restriction... | 3,238 | 3,243 | 6 | none |
| SapI | restriction... | 2,931 | 2,937 | 7 | forward |
| R Primer for Lac Z inse... | misc_feature | 2,906 | 2,945 | 40 | reverse |
| NotI | restriction... | 2,623 | 2,630 | 8 | none |
| Lac Z Blue | CDS | 2,318 | 2,887 | 570 | forward |
| SapI | restriction... | 2,267 | 2,273 | 7 | reverse |
| F Primer for Lac Z inse... | misc_feature | 2,260 | 2,296 | 37 | forward |
| miR159b first and last... | CDS | 1,842 | 3,237 | 1,396 | forward |
| EcoRI | restriction... | 1,836 | 1,841 | 6 | none |
| XhoI | restriction... | 1,830 | 1,835 | 6 | none |
| ART35S F | primer | 1,532 | 1,555 | 24 | forward |
| 35S promoter | promoter u... | 483 | 1,833 | 1,351 | forward |
| NotI | restriction... | 476 | 483 | 8 | none |
| T->G SapI removal | misc_feature | 186 | 186 | 1 | reverse |
| Right Border | repeat_regi... | 31 | 56 | 26 | reverse |