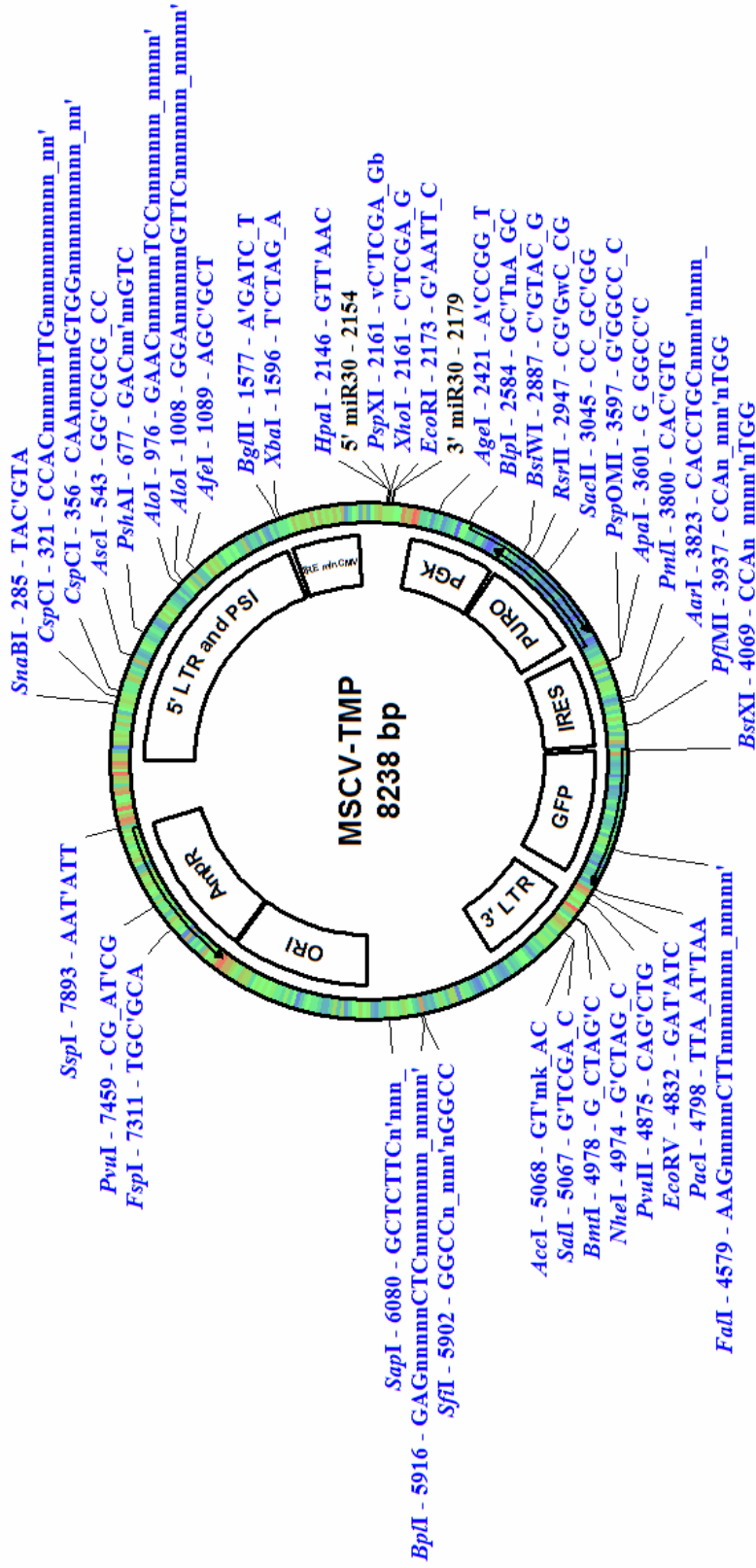


# Expression Arrest™ TMP microRNA-adapted Retroviral shRNA Vector



Note: Vector map and sequence file has been compiled from published literature, known fragments used to construct vector, and other sources, along with partial sequences obtained by Open Biosystems. This vector has not been completely sequenced. Unique restriction sites shown.

# Expression Arrest™ TMP microRNA-adapted Retroviral shRNA Vector

Sequence: TMP Vector

```
1 TCCGCGTTAC ATAAC TTACG GTAAATGGCC CGCCTGGCTG ACCGCCAAC
51 GACCCCGCC CATTGACGTC AATAATGACG TATGTTCCCA TAGTAACGCC
101 AATAGGGACT TTCCATTGAC GTCAATGGGT GGAGTATTTA CGGTAAACTG
151 CCCACTTGGC AGTACATCAA GTGTATCATA TGCCAAGTAC GCCCCTATT
201 GACGTCAATG ACGGTAAATG GCCCGCTCTG GCATTATGCC CAGTACATGA
251 CTTTATGGGA CTTTCTACT TGGCAGTACA TCTACGTATT AGTCATCGCT
301 ATTACCATGG TGATGCGGTT TTGGCAGTAC ATCAATGGGC GTGGATAGCG
351 GTTTGACTCA CGGGGATTTT CAAGTCTCCA CCCATTGAC GTCAATGGGA
401 GTTTGT TTTG GCACAAAAT CAACGGGACT TTCCAAAATG TCGTAACAAC
451 TCCGCCCAT TGACGCAAAT GGGCGGTAGG CGTGTACGGT GGGAGGTCTA
501 TATAAGCAGA GCTCAATAAA AGAGCCCACA ACCCCTCACT CGGCGCGCCA
551 GTCTTCCGAT AGACTGCGTC GCCCGGTAC CCGTATTCCC AATAAAGCCT
601 CTTGCTGTTT GCATCCGAAT CGTGGTCTCG CTGTTCTTTG GGAGGGTCTC
651 CTCTGAGTGA TTGACTACCC ACGACGGGG TCTTTCATTT GGGGGCTCGT
701 CCGGGATTTG GAGACCCCTG CCCAGGGACC ACCGACCAC CACCGGGAGG
751 TAAGCTGGCC AGCAACTTAT CTGTGTCTGT CCGATTGTCT AGTGTCTATG
801 TTTGATGTTA TGCGCCTGCG TCTGTACTAG TTAGCTAACT AGCTCTGTAT
851 CTGGCGGACC CGTGGTGGAA CTGACGAGTT CTGAACACCC GGCCGCAACC
901 CTGGGAGACG TCCCAGGGAC TTTGGGGGCC GTTTTTGTGG CCCGACCTGA
951 GGAAGGGAGT CGATGTGGAA TCCGACCCCG TCAGGATATG TGGTTCTGGT
1001 AGGAGACGAG AACCTAAAAC AGTTCCC GCCGCTGAA TTTTGTCTTT
1051 CGGTTTGGAA CCGAAGCCGC GCGTCTTGTC TGCTGCAGCG CTGCAGCATC
1101 GTTCTGTGTT GTCTCTGTCT GACTGTGTTT CTGTATTTGT CTGAAAATTA
1151 GGGCCAGACT GTTACCACTC CCTTAAGTTT GACCTTAGGT CACTGGAAAG
1201 ATGTCGAGCG GATCGCTCAC AACCAGTCGG TAGATGTCAA GAAGAGACGT
1251 TGGGTTACCT TCTGCTCTGC AGAATGGCCA ACCTTTAACG TCGGATGGCC
1301 GCGAGACGGC ACCTTTAACG GAGACCTCAT CACCCAGGTT AAGATCAAGG
1351 TCTTTTACC TGGCCCGCAT GGACACCCAG ACCAGGTCCC CTACATCGTG
1401 ACCTGGGAAG CCTTGGCTTT TGACCCCCCT CCCTGGGTCA AGCCCTTTGT
1451 ACACCCTAAG CCTCCGCTC CTCTTCTCC ATCCGCCCCG TCTCTCCCCC
1501 TTGAACCTCC TCGTTCGACC CCGCCTCGAT CCTCCCTTTA TCCAGCCCTC
1551 ACTCCTTCTC TAGGCGCCGG AATTGAAGAT CTGGGGGATC GATCCTCTAG
1601 AGCATCCAGT TTACCACTCC CTATCAGTGA TAGAGAAAAG TGAAAGTCGA
1651 GTTTACCAGT CCCTATCAGT GATAGAGAAA AGTGAAAGTC GAGTTTACCA
1701 CTCCCTATCA GTGATAGAGA AAAGTGAAAG TCGAGTTTAC CACTCCCTAT
1751 CAGTGATAGA GAAAAGTGAA AGTCGAGTTT ACCACTCCCT ATCAGTGATA
1801 GAGAAAAGTG AAAGTCGAGT TTACCACTCC CTATCAGTGA TAGAGAAAAG
1851 TGAAAGTCGA GTTTACCACT CCCTATCAGT GATAGAGAAA AGTGAAAGTC
1901 GAGCTCGGTA CCCGGGTCGA GTAGGCGTGT ACGGTGGGAG GCCTATATAA
1951 GCAGAGCTCG TTTAGTGAAC CGTCAGATCG CCTGGAGACG CCATCCACGC
2001 TGTTTTGACC TCCATAGAAG ACACCGGGAC CGATCCAGCC TCTCGACTAG
2051 GGATAACAGG GTAATTGTTT GAATGAGGCT TCAGTACTTT ACAGAATCGT
2101 TGCCTGCACA TCTTGAAAC ACTTGCTGGG ATTACTTCTT CAGGTTAACC
2151 CAACAGAAGG CTCGAGCAAC CAGAATTCAA GGGGCTACTT TAGGAGCAAT
2201 TATCTTGTTT ACTAAAATG AATACCTTG TATCTCTTTG ATACATTTTT
2251 ACAAAGCTGA ATTAAAATGG TATAAATTAA ATCACTTTTT TCAATTCTAG
2301 CAATTCTACC GGGTAGGGGA GGCGCTTTT CCAAGGCAGT CTGGAGCATG
2351 CGCTTTAGCA GCCCGCTGG GCACTTGGCG CTACACAAGT GGCTCTGGC
2401 CTCGCACACA TTCCACATCC ACCGGTAGGC GCCAACC GGC TCCGTTCTTT
2451 GGTGGCCCT TCGCGCCACC TTCTACTCCT CCCCTAGTCA GGAAGTTCCC
2501 CCCC GCGCT CAGCTCGCT CGTGCAGGAC GTGACAAATG GAAGTAGCAC
2551 GTCTCACTAG TCTCGTGCAG ATGGACAGCA CCGCTGAGCA ATGGAAGCGG
2601 GTAGGCCTTT GGGCAGCGG CCAATAGCAG CTTTGCTCCT TCGCTTTCTG
2651 GGCTCAGAGG CTGGGAAGGG GTGGTCCGG GGGCGGGCTC AGGGGCGGGC
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## Expression Arrest™ TMP microRNA-adapted Retroviral shRNA Vector

2701 TCAGGGGCGG GGCGGGCGCC CGAAGGTCCT CCGGAGGCC GGCATTCTGC  
2751 ACGCTTCAAA AGCGCACGTC TGCCGCGCTG TTCTCCTCTT CCTCATCTCC  
2801 GGGCCTTTTCG ACCTGCAGCC CAAGCTTACC ATGACCGAGT ACAAGCCAC  
2851 GGTGCGCCTC GCCACCCGCG ACGACGTCCC CAGGGCCGTA CGCACCCCTCG  
2901 CCGCCGCGTT CGCCGACTAC CCCGCCACGC GCCACACCGT CGATCCGGAC  
2951 CGCCACATCG AGCGGGTCAC CGAGCTGCAA GAACTCTTCC TCACGCGCGT  
3001 CGGGCTCGAC ATCGGCAAGG TGTGGGTCGC GGACGACGGC GCCGCGGTGG  
3051 CGGTCTGGAC CACGCCGGAG AGCGTCGAAG CGGGGGCGGT GTTCGCCGAG  
3101 ATCGGCCCGC GCATGGCCGA GTTGAGCGGT TCCCGGCTGG CCGCGCAGCA  
3151 ACAGATGGAA GGCTCCTGG CGCCGACCCG GCCCAAGGAG CCCGCGTGGT  
3201 TCCTGGCCAC CGTGCGCGTC TCGCCCGACC ACCAGGGCAA GGGTCTGGGC  
3251 AGCGCCGTCG TGCTCCCCGG AGTGGAGGCG GCCGAGCGCG CCGGGGTGCC  
3301 CGCCTTCTTG GAGACCTCCG CGCCCCGCAA CCTCCCCTTC TACGAGCGGC  
3351 TCGGCTTTCAC CGTCACCGCC GACGTCGAGG TGCCCGAAGG ACCGCGCACC  
3401 TGGTGCATGA CCCGCAAGCC CGGTGCCTGA CGCCCGCCCC ACGACCCGCA  
3451 GCGCCCGACC GAAAGGAGCG CACGACCCCA TCATCCAATT CCGCCCCCCC  
3501 CCCCTAACGT TACTGGCCGA AGCCGCTTGG AATAAGGCCG GTGTGCGTTT  
3551 GTCTATATGT TATTTTCCAC CATATTGCCG TCTTTTGGCA ATGTGAGGGC  
3601 CCGGAAACCT GGCCCTGTCT TCTTGACGAG CATTCTTAGG GGTCTTTCCC  
3651 CTCTCGCAA AGGAATGCAA GGTCTGTTGA ATGTCGTGAA GGAAGCAGTT  
3701 CCTCTGGAAG CTTCTTGAAG ACAAACAACG TCTGTAGCGA CCCTTTGCAG  
3751 GCAGCGGAAC CCCCCACCTG GCGACAGGTG CCTCTGCGGC CAAAAGCCAC  
3801 GTGTATAAGA TACACCTGCA AAGGCGGCAC AACCCCAAGT CCACGTTGTG  
3851 AGTTGGATAG TTGTGGAAAG AGTCAAATGG CTCTCCTCAA GCGTATTCAA  
3901 CAAGGGGCTG AAGGATGCC AGAAGGTACC CCATTGTATG GGATCTGATC  
3951 TGGGGCCTCG GTGCACATGC TTTACATGTG TTTAGTCGAG GTTAAAAAAC  
4001 GTCTAGGCC CCGAACCAC GGGGACGTGG TTTTCCTTTG AAAAACACGA  
4051 TGATAATATG GCCACAACCA TGGTGAGCAA GGGCGAGGAG CTGTTCAACG  
4101 GGGTGGTGCC CATCCTGGTC GAGCTGGACG GCGACGTAAA CGGCCACAA  
4151 TTCAGCGTGT CCGCGAGGG CGAGGGCGAT GCCACCTACG GCAAGCTGAC  
4201 CCTGAAGTTC ATCTGCACCA CCGCAAGCT GCCCGTGCCC TGGCCACCC  
4251 TCGTGACCAC CCTGACCTAC GCGGTGCAGT GCTTCAGCCG CTACCCCGAC  
4301 CACATGAAGC AGCACGACTT CTTCAAGTCC GCCATGCCCG AAGGCTACGT  
4351 CCAGGAGCGC ACCATCTTCT TCAAGGACGA CGGCAACTAC AAGACCCGCG  
4401 CCGAGGTGAA GTTCGAGGGC GACACCCTGG TGAACCGCAT CGAGCTGAAG  
4451 GGCATCGACT TCAAGGAGGA CGGCAACATC CTGGGGCACA AGCTGGAGTA  
4501 CAACTACAAC AGCCACAACG TCTATATCAT GGCCGACAAG CAGAAGAACG  
4551 GCATCAAGGT GAACTTCAAG ATCCGCCACA ACATCGAGGA CGGCAGCGTG  
4601 CAGCTCGCCG ACCACTACCA GCAGAACACC CCCATCGGCG ACGGCCCCGT  
4651 GCTGCTGCC GACAACCACT ACCTGAGCAC CCAGTCCGCC CTGAGCAAAG  
4701 ACCCCAACGA GAAGCGCGAT CACATGGTCC TGCTGGAGTT CGTGACCGCC  
4751 GCCGGGATCA CTCTCGGCAT GGACGAGCTG TACAAGTAAT GAATTAATTA  
4801 AGAATTATCA AGCTTATCGA TACCGTCGAG ATATCAGTGG TCCAGGCTCT  
4851 AGTTTTGACT CAACAATATC ACCAGCTGAA GCCTATAGAG TACGAGCCAT  
4901 AGATAAAATA AAAGATTTTA TTTAGTCTCC AGAAAAAGGG GGAATGAAA  
4951 GACCCACCT GTAGTTTGG CAAGCTAGCT TAAGTAACGC CATTTTGCAA  
5001 GGCATGGAAA AATACATAAC TGAGAATAGA GAAGTTCAGA TCAAGGTCAG  
5051 GAACAGATGG AACAGGGTCG ACCCTAGAGA ACCATCAGAT GTTTCCAGGG  
5101 TGCCCCAAGG ACCTGAAATG ACCCTGTGCC TTATTTGAAC TAACCAATCA  
5151 GTTCGCTTCT CGCTTCTGTT CGCGCGCTTC TGCTCCCCGA GCTCAATAAA  
5201 AGAGCCCACA ACCCCTCACT CGGGGCGCCA GTCCTCCGAT TGACTGAGTC  
5251 GCCCGGTAC CCGTGTATCC AATAAACCTT CTTGCAGTTG CATCCGACTT  
5301 GTGGTCTCGC TGTTCTTTGG GAGGGTCTCC TCTGAGTGAT TGACTACCCG  
5351 TCAGCGGGGG TCTTTCATTT GGGGGCTCGT CCGGGATCGG GAGACCCCTG  
5401 CCCAGGGACC ACCGACCCAC CACCGGGAGG TAAGCTGGCT GCCTCGCGCG  
5451 TTTGCGGTGAT GACGGTGAAA ACCTCTGACA CATGCAGCTC CCGGAGACGG  
5501 TCACAGCTTG TCTGTAAGCG GATGCCGGGA GCAGACAAGC CCGTCAGGGC

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5551 GCGTCAGCGG GTGTTGGCGG GTGTCGGGGC GCAGCCATGA CCCAGTCACG  
5601 TAGCGATAGC GGAGTGTAGA TCCGGCTGTG GAATGTGTGT CAGTTAGGGT  
5651 GTGGAAAGTC CCCAGGCTCC CCAGCAGGCA GAAGTATGCA AAGCATGCAT  
5701 CTCAATTAGT CAGCAACCAG GTGTGGAAAG TCCCCAGGCT CCCCAGCAGG  
5751 CAGAAGTATG CAAAGCATGC ATCTCAATTA GTCAGCAACC ATAGTCCCGC  
5801 CCCTAACTCC GCCCATCCCG CCCCTAACTC CGCCCAGTTC CGCCCATTCT  
5851 CCGCCCCATG GCTGACTAAT TTTTTTTTATT TATGCAGAGG CCGAGGCCGC  
5901 CTCGGCCTCT GAGCTATTCC AGAAGTAGTG AGGAGGCTTT TTTGGAGGCC  
5951 TAGGCTTTTTG CAAAAAGCTT ACTGGCTTAA CTATGCGGCA TCAGAGCAGA  
6001 TTGTACTGAG AGTGCACCAT ATGCGGTGTG AAATACCGCA CAGATGCGTA  
6051 AGGAGAAAAA ACCGCATCAG GCGCTCTTCC GCTTCCTCGC TCACTGACTC  
6101 GCTGCGCTCG GTCGTTCCGC TCGCGCGAGC GGTATCAGCT CACTCAAAGG  
6151 CGGTAATACG GTTATCCACA GAATCAGGGG ATAACGCAGG AAAGAACATG  
6201 TGAGCAAAAAG GCCAGCAAAA GGCCAGGAAC CGTAAAAAGG CCGCGTTGCT  
6251 GGCGTTTTTTC CATAGGCTCC GCCCCCTGA CGAGCATCAC AAAAATCGAC  
6301 GCTCAAGTCA GAGGTGGCGA AACCCGACAG GACTATAAAG ATACCAGGCG  
6351 TTTCCCCCTG GAAGCTCCCT CGTGCCTCTT CCTGTTCCGA CCCTGCCGCT  
6401 TACCGGATAC CTGTCCGCCT TTCTCCCTTC GGGAAAGCGTG GCGCTTTCTC  
6451 ATAGCTCACG CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT TCGCTCCAAG  
6501 CTGGGCTGTG TGCACGAACC CCCCCTTCCG CCCGACCGCT GCGCCTTATC  
6551 CGGTAACATAT CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC  
6601 TGGCAGCAGC CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCCGT  
6651 GCTACAGAGT TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC  
6701 AGTATTTGGT ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG  
6751 TTGGTAGCTC TTGATCCGGC AAACAAACCA CCGCTGGTAG CCGTGGTTTT  
6801 TTTGTTTGCA AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA  
6851 TCCTTTGATC TTTTCTACGG GGTCTGACGC TCAGTGAAC GAAAACTCAC  
6901 GTTAAAGGAT TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC  
6951 CTTTTAAAT AAAAAATGAAG TTTTAAATCA ATCTAAAGTA TATATGAGTA  
7001 AACTTGGTCT GACAGTTACC AATGCTTAAT CAGTGAGGCA CCTATCTCAG  
7051 CGATCTGTCT ATTTTCGTTCA TCCATAGTTG CCTGACTCCC CGTCGTGTAG  
7101 ATAACACGA TACGGGAGGG CTTACCATCT GGCCCCAGTG CTGCAATGAT  
7151 ACCGCGAGAC CCACGCTCAC CGGCTCCAGA TTTATCAGCA ATAAACCAGC  
7201 CAGCCGGAAG GGCCGAGCGC AGAAGTGGTC CTGCAACTTT ATCCGCCTCC  
7251 ATCCAGTCTA TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT  
7301 TAATAGTTTG CGCAACGTTG TTGCCATTGC TGCAGGCATC GTGGTGTAC  
7351 GCTCGTCGTT TGGTATGGCT TCATTAGCT CCGGTTCCCA ACGATCAAGG  
7401 CGAGTTACAT GATCCCCCAT GTTGTGCAA AAAGCGGTTA GCTCCTTCGG  
7451 TCCTCCGATC GTTGTGAGAA GTAAGTTGGC CGCAGTGTTA TCACTCATGG  
7501 TTATGGCAGC ACTGCATAAT TCTCTTACTG TCATGCCATC CGTAAGATGC  
7551 TTTTCTGTGA CTGGTGAGTA CTCAACCAAG TCATTCTGAG AATAGTGTAT  
7601 GCGGCGACCG AGTTGCTCTT GCCCGGCGTC AACACGGGAT AATACCGCGC  
7651 CACATAGCAG AACTTTAAAA GTGCTCATCA TTGAAAAACG TTCTTCGGGG  
7701 CGAAAACTCT CAAGGATCTT ACCGCTGTTG AGATCCAGTT CGATGTAACC  
7751 CACTCGTGCA CCCAACTGAT CTTCAGCATC TTTTACTTTC ACCAGCGTTT  
7801 CTGGGTGAGC AAAAAACAGG AGGCAAAATG CCGCAAAAAA GGAATAAAG  
7851 GCGACACGGA AATGTTGAAT ACTCATACTC TTCCTTTTTT AATATTATTG  
7901 AAGCATTAT CAGGGTTATT GTCTCATGAG CGGATACATA TTTGAATGTA  
7951 TTTAGAAAAA TAAACAAATA GGGGTTCCGC GCACATTTCC CCGAAAAGTG  
8001 CCACCTGACG TCTAAGAAAC CATTATTATC ATGACATTAA CCTATAAAAA  
8051 TAGGCGTATC ACGAGGCCCT TTCGTCTTCA AGAATTAGCT TGGCCATTGC  
8101 ATACGTTGTA TCCATATCAT AATATGTACA TTTATATTGG CTCATGTCCA  
8151 ACATTACCGC CATGTTGACA TTGATTATTG ACTAGTTATT AATAGTAATC  
8201 AATTACGGGG TCATTAGTTC ATAGCCATA TATGGAGT

## Expression Arrest™ TMP microRNA-adapted Retroviral shRNA Vector

TMP, 8238 bp. (CIRCULAR)  
Restriction analysis 9/12/2005  
pDRAW32 revision 1.1.86  
Rebase containing 252 enzymes.  
39 enzymes match enzyme selection criteria.

\*\*\*\*\*

**AarI** (CACCTGCnnnn'nynn\_)

Cuts 1 time.  
Cuts at position 3823.

**AccI** (GT'mk\_AC) [FblI,XmiI]

Cuts 1 time.  
Cuts at position 5068.

**AfeI** (AGC'GCT) [Eco47III,Aor51HI,FunI]

Cuts 1 time.  
Cuts at position 1089.

**AgeI** (A'CCGG\_T) [AsiAI,BshTI,CspAI,PinAI]

Cuts 1 time.  
Cuts at position 2421.

**AluI** (GAACnnnnnnTCCnnnnnnn\_nnnnn')

Cuts 1 time.  
Cuts at position 976.

**AluI** (GGAnnnnnnGTTCCnnnnnnn\_nnnnn')

Cuts 1 time.  
Cuts at position 1008.

**ApaI** (G\_GGCC'C) [Bsp120I,PspOMI]

[dcm methylated]  
Cuts 1 time.  
Cuts at position 3601.

**AscI** (GG'CGCG\_CC)

Cuts 1 time.  
Cuts at position 543.

**BglII** (A'GATC\_T)

Cuts 1 time.  
Cuts at position 1577.

**BlpI** (GC'TnA\_GC) [Bpu1102I,Bsp1720I,CelIII]

Cuts 1 time.  
Cuts at position 2584.

**BmtI** (G\_CTAG'C) [NheI,AsuNHI]

Cuts 1 time.

## Expression Arrest™ TMP microRNA-adapted Retroviral shRNA Vector

Cuts at position 4978.

***Bp*II** (GAGnnnnnCTCnnnnnnnnn\_nnnnn')

Cuts 1 time.

Cuts at position 5916.

***Bsi*WI** (C'GTAC\_G) [Pfl23II,PspLI,SunI]

Cuts 1 time.

Cuts at position 2887.

***Bst*XI** (CCAn\_nnnn'nTGG)

Cuts 1 time.

Cuts at position 4069.

***Csp*CI** (CAAnnnnnGTGGnnnnnnnnnn\_nn')

Cuts 1 time.

Cuts at position 356.

***Csp*CI** (CCACnnnnnTTGnnnnnnnnnn\_nn')

Cuts 1 time.

Cuts at position 321.

***EC*ORI** (G'AATT\_C) [FunII]

Cuts 1 time.

Cuts at position 2173.

***EC*ORV** (GAT'ATC) [Eco32I]

Cuts 1 time.

Cuts at position 4832.

***Fal*I** (AAGnnnnnCTTnnnnnnnnn\_nnnnn')

Cuts 1 time.

Cuts at position 4579.

***Fsp*I** (TGC'GCA) [Acc16I,AviIII,NsbI]

Cuts 1 time.

Cuts at position 7311.

***Hpa*I** (GTT'AAC) [KspAI]

Cuts 1 time.

Cuts at position 2146.

***Nhe*I** (G'CTAG\_C) [AsuNHI,BmtI]

Cuts 1 time.

Cuts at position 4974.

***Pac*I** (TTA\_AT'TAA)

Cuts 1 time.

Cuts at position 4798.

## Expression Arrest™ TMP microRNA-adapted Retroviral shRNA Vector

***Pfl*MI** (CCAn\_nnn'nTGG) [AccB7I,PflBI,Van91I]  
[dcm methylated]  
Cuts 1 time.  
Cuts at position 3937.

***Pml*I** (CAC'GTG) [PmaCI,AcvI,BbrPI,Eco72I,PspCI]  
Cuts 1 time.  
Cuts at position 3800.

***Psh*AI** (GACnn'nnGTC) [BoxI,BstPAI]  
Cuts 1 time.  
Cuts at position 677.

***Psp*OMI** (G'GGCC\_C) [ApaI,Bsp120I]  
Cuts 1 time.  
Cuts at position 3597.

***Psp*XI** (vC'TCGA\_Gb)  
Cuts 1 time.  
Cuts at position 2161.

***Pvu*I** (CG\_AT'CG) [BspCI,MvrI,Ple19I]  
Cuts 1 time.  
Cuts at position 7459.

***Pvu*II** (CAG'CTG)  
Cuts 1 time.  
Cuts at position 4875.

***Rsr*II** (CG'GwC\_CG) [CpoI,CspI,Rsr2I]  
Cuts 1 time.  
Cuts at position 2947.

***Sac*II** (CC\_GC'GG) [Cfr42I,KspI,Sfr303I,SgrBI]  
Cuts 1 time.  
Cuts at position 3045.

***Sal*I** (G'TCGA\_C)  
Cuts 1 time.  
Cuts at position 5067.

***Sap*I** (GCTCTTCn'nnn\_)  
Cuts 1 time.  
Cuts at position 6080.

***Sfi*I** (GGCCn\_nnn'nGGCC)  
[dcm methylated]  
Cuts 1 time.  
Cuts at position 5902.

## Expression Arrest™ TMP microRNA-adapted Retroviral shRNA Vector

***SnaBI*** (TAC'GTA) [BstSNI,Eco105I]  
Cuts 1 time.  
Cuts at position 285.

***SspI*** (AAT'ATT)  
Cuts 1 time.  
Cuts at position 7893.

***XbaI*** (T'CTAG\_A)  
[dam methylated]  
Cuts 1 time.  
Cuts at position 1596.

***XhoI*** (C'TCGA\_G) [BssHI,Paer7I,Sfr274I,SlaI,StrI,TliI]  
Cuts 1 time.  
Cuts at position 2161.