

DNA SEQUENCING DATA FIGURE 1

Microsynth raw sequencing data:

Clone 231A: →all sequences corresponding to three different colonies show WT form of Tau

231A B WT MAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLK...

231A E WT MAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLK...

231A L WT MAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLK...

>231A B CMV-for

CTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTTGGTACCGAGCTCGGATCCGTGAAC
TTTGAACCAGGATGCTGAGCCCCGCCAGGAGTTCTGAAGTGATGGAAGATCACGCTGGGACGTACGGGTTGGGGGA
CAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGGTTAGTGG
ACAGCCATGCACAGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGGGAACAGTTTGCATCCAGAATTGCAAAGA
AATTTTAAATACATTATTGTCTTAGACTGTCAGTAAAGTAAAGCCTCATTAAATTTGAGTGGGCCAAGATAACTCAAGCA
GTGAGATAATGGCCAGACACGGTGGCTCACGCCTGTAATCTCGAGCATGCATCTAGAGGGCCCTATTCTATAGTGTCA
CCTAAATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGGCCCTCCCCGTGC
CTTCCTTGACCCTGGAAGGTGCCACTCCCCTGTCCTTTCTAATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAG
GTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAGGCATGC
TGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGAAAGAACCAGCTGGGGCTCTAGGGGTATCCCCACGCGCCC
TGTCAGCGCGCATTAAAGCGCGGGGTGTGGTGGTTACGCGCAGCGGGACCGSTAMACTTGCCAGCGCCCTAGCGC
CCGCTCCTTCACTTACTTCCCTTCTTCTCGCCACGTTGCGCGGCTTCCCCGACAAGCT

>231A E CMV-for

AGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCA
GCTTGGTACCGAGCTCGGATCCGTGAACTTTGAACCAGGATGCTGAGCCCCGCCAGGAGTTCTGAAGTGATGGAAGA
TCAGCTGGGACGTACGGGTTGGGGGACAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGA
CACGGACGCTGGCCTGAAAGGTTAGTGACAGCCATGCACAGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGG
GAACAGTTTGCATCCAGAATTGCAAAGAAATTTTAAATACATTATTGTCTTAGACTGTCAGTAAAGTAAAGCCTCATT
ATTTGAGTGGGCCAAGATAACTCAAGCAGTGAGATAATGGCCAGACACGGTGGCTCACGCCTGTAATCTCGAGCATG
CATCTAGAGGGCCCTATTCTATAGTGTACCTAAATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCC
AGCCATCTGTTGTTTGGCCCTCCCCGTGCCTTCTTGACCCTGGAAGGTGCCACTCCCCTGTCCTTTCTAATAAAAT
GAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGG
AGGATTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTG
GGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGCGCATTAAACCGCGGGGTGTGGTGGTTACTCGCAGCGTGA
CCGCTACACTTGCCAGCGCCCTAGCGCCGCTCCTTTCTGCTTCTTCCCTTCTTCTCGCCACGTTGCGCGGCTTCCCC
TCAAGCTCTAAATCGGGGGCTCCCTTTWAGGGTTCCGATTTAGTGCT

>231A L CMV-for

AGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTTGGTACCGAGCTCGG
ATCCGTGAACTTTGAACCAGGATGCTGAGCCCCGCCAGGAGTTCTGAAGTGATGGAAGATCACGCTGGGACGTACG
GGTTGGGGGACAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGA
AAGGTTAGTGACAGCCATGCACAGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGGGAACAGTTTGCATCCAG
AATTGCAAAGAAATTTTAAATACATTATTGTCTTAGACTGTCAGTAAAGTAAAGCCTCATTAAATTTGAGTGGGCCAAGA

TAACTCAAGCAGTGAGATAATGGCCAGACACGGTGGCTCACGCCTGTAATCTCGAGCATGCATCTAGAGGGCCCTATT
CTATAGTGTCACCTAAATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCC
CTCCCCGTGCCTTCCTTGACCCTGGAAGGTGCCACTCCCCTGTCCTTTCCTAATAAAATGAGGAAATTGCATCGCATT
GTCTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATA
GCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGCTCTAGGGGGTATCC
CCACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCG
CCCTAGCGCCCGCTCCTTCGCTTTCCTCCCTTCCTTCTCGCCACGTTCCGCGGCTTCCCCGTCAAGCTCTAAATCGGG
GGCTCCCTTAGGGTCCGATTTAGTGCTTTACGGCACCTCGACCCCCAAAACTTGAATAGGGGTGATGGTTCMCGT
AGTGGGCCATCGCCCTGATAGACGGTTTTTCCCCCTT

Clone 231K: →sequences corresponding to two different colonies

231K A 1 bp insertion MAEPRQEFVEMEDHAGTYGVGGQERSGGLHHAPRPRGstopcodon

231K L 5bp deletion MAEPRQEFVEMEDHAGTYGGQERSGGLHHAPRPRGstopcodon

>231K A_CMV-for

CTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTTG
GTACCGAGCTCGGATCCGTGAACTTTGAACCCAGGATGGCTGAGCCCCGCCAGGAGTTTCAAGTGATGGAAGATCACG
CTGGGACGTACGGGGTGGGGGACAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGAACACG
GACGCTGGCCTGAAAGGTTAGTGGACAGCCATGCACAGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGGGAAC
AGTTTGCATCCAGAATTGCAAAGAAATTTAAATACATTATTGTCTTAGACTGTCAGTAAAGTAAAGCCTCATTAAATTT
GAGTGGGCCAAGATAACTCAAGCAGTGAGATAATGGCCAGACACGGTGGCTCACGCCTGTAATCTCGAGCATGCATC
TAGAGGGCCCTATTCTATAGTGTACCTAAATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCC
ATCTGTTGTTTGGCCCTCCCCCGTGCCTTCCTTGACCCTGGAAGGTGCCACTCCCCTGTCCTTTCCTAATAAAAATGAGG
AAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGA
TTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGC
TCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGC
TACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTCTCCCTTCCTTCTCGCCACGTTCCCGGCTTCCCCGTCA
AGCTCTAAATCGGGGGCTCCCTTATAGGGTCCGATTTAGTGCTTACGGCACCTCGACCCCAAAAACCTTGATTAGGGT
GATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTGACGTTGGAGTCCACGTTCTTTAAAWART
GGACTCTGTTCCAAACTGGAACAAMMCTCAACCCTATCYCGGTCTATTCTTTGATTTWWAAGGGATTTTGCCNATT
TCGGCCTATTGGTTAAAAATNRRCTGATTTA

>231K L_CMV-for

GAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAG
CTTGGTACCGAGCTCGGATCCGTGAACTTTGAACCCAGGATGGCTGAGCCCCGCCAGGAGTTTCAAGTGATGGAAGAT
CACGCTGGGACGTACGGGGGACAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGAACACGGA
CGCTGGCCTGAAAGGTTAGTGGACAGCCATGCACAGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGGGAACAG
TTTGCATCCAGAATTGCAAAGAAATTTAAATACATTATTGTCTTAGACTGTCAGTAAAGTAAAGCCTCATTAAATTTGA
GTGGGCCAAGATAACTCAAGCAGTGAGATAATGGCCAGACACGGTGGCTCACGCCTGTAATCTCGAGCATGCATCTA
GAGGGCCCTATTCTATAGTGTACCTAAATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCAT
CTGTTGTTTGGCCCTCCCCCGTGCCTTCCTTGACCCTGGAAGGTGCCACTCCCCTGTCCTTTCCTAATAAAAATGAGGAA
ATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATT
GGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGCTC
TAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCT
ACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTCTCCCTTCCTTCTCGCCACGTTCCCGGCTTCCCCGTCAA
GCTCTAAATCGGGGGCTCCCTTATAGGGTCCGATTTAGTGCTTACGGCACCTCGACCCCAAAAACCTTGATTAGGGT
GATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTGACGTTGGAGTCCACGTTCTTTAATAGTG
GACTCTGTTCCAAACTGGAACAAMMCTCAACCCTATCTCGGTCTATTCTTTGATTATAAGGGATTTTGCCG

Clone 232P: → sequences corresponding to four different colonies

232P E big insertion MAEPRQEFEVQKLFNLPSLLLLSstopcodon

232P G 1bp insertion MAEPRQEFADGRSRWDVVRVGGQERSGGLHHAPRPRGstopcodon

232P M big insertion MAEPRQEFEVQKLFNLPSLLLLSstopcodon

232P O 1bp insertion MAEPRQEFADGRSRWDVVRVGGQERSGGLHHAPRPRGstopcodon-

>232P-E CMV-for

GCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTT
GGTACCGAGCTCGGATCCGTGAACTTTGAACCAGGATGGCTGAGCCCCGCCAGGAGTTCGAAGTACAGCAAAAATA
TTCTTAAACCTACCAAGCCTCTACTATCATTATGATAAATTTTATATACCACAGCCAATTTGTTATGTTAAACCAATTCC
ACAACTTGCCATTTATCTAATTCCAATAATTCTTGTTCACTCTTTCTTGCTGGTTTTGCGATTCTTCAATTAAGGAGT
GTATTAAGCTGTGTAATTGTTAATTTCTCTGTCCCACTCCATCCAGGTCGTGTGATTCCGATGCTATTGCTTTATTTGTA
ACCATTATAAGCTGCAATAAACAAGTTGGGGTGGGCGAAGAAGTCCAGCATGAGATCCCCGCGCTGGAGGATCATCC
AGCCGTGGGGCGGGAGTTCGCCCTGCGCGACCCGGCCGCAACTGCGTGCCTTCGTGGCCGAGGAGCAGGACTG
ACACGTGCTACGAGATTTGATTCCACCGCCGCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGG
CTGGACGTGGTGTAAATCTTTATATTATGATGGAAGATCACGCTGGGACGTACGGGTTGGGGGACAGGAAAGATCAG
GGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGTTAGTGGACAGCCATGCACA
GCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGGGAACAGTTTGCATCCAGAATTGCAAAGAAATTTAAATACAT
TATTGTCTTAGACTGTGTAAGTAAAGCCTCATTAAATTTGAGTGGGCCAAGATAACTCAAGCAGTGAGATAATGGC
CAGACACGGTGGCTCACGCTGTAATCTCGAGCATGCATCTAGAGGGCCCTATTCTATAGTGTACCTAAATGCTAGA
GCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGGCCCTCCCCCGTGCCTTCTTGACCCT
GGAAGGTGCCMCTCCCACTGTCCTTTCCTAATAAAATGAGGAAATTGCATCGCATNGTCTG

>232P-G CMV-for

GCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTT
GGTACCGAGCTCGGATCCGTGAACTTTGAACCAGGATGGCTGAGCCCCGCCAGGAGTTCGAAGCTGATGGAAGATCA
CGCTGGGACGTACGGGTTGGGGGACAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACAC
GGACGCTGGCCTGAAAGTTAGTGGACAGCCATGCACAGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGGGAA
CAGTTTGCATCCAGAATTGCAAAGAAATTTAAATACATTATTGTCTTAGACTGTGTAAGTAAAGCCTCATTAAATTT
GAGTGGGCCAAGATAACTCAAGCAGTGAGATAATGGCCAGACACGGTGGCTCACGCTGTAATCTCGAGCATGCATC
TAGAGGGCCCTATTCTATAGTGTACCTAAATGCTAGAGCTCGTGTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCC
ATCTGTTGTTTGGCCCTCCCCCGTGCCTTCTTGACCCTGGAAGGTGCCACTCCCACTGTCCTTTCCTAATAAAATGAGG
AAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGA
TTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGC
TCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGC
TACACTTGCCAGCGCCCTAGCGCCGCTCCTTTGCTTTCTCCCTTCTTTCTCGCCACGTTCCCGGCTTTCCCGTCAA
GCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCAAAACTTGATTAGGGTG
ATGGTTCACGTAGTGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGG
ACTCTGTTCCAACTGGAACAACMCTCAACCCTWYTCGGTCTATTCTTTGATTTWTAAGGGAATTTGCCGATTTCCG
NCCTNTGGTTAAAAATGAGCTGATTTAAMAAAATTTA

>232P-M CMV-for

AGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCT
TGGTACCGAGCTCGGATCCGTGAACTTTGAACCAGGATGGCTGAGCCCCGCCAGGAGTTCGAAGTACAGCAAAAAC
ATTCTTAAACCTACCAAGCCTCCTACTATCATTATGATAATTTTATATACCACAGCCAATTTGTTATGTTAAACCAATTC
CACAAACTTGCCATTTATCTAATTCCAATAATTCTTGTTTCATTCTTTTCTTGCTGGTTTTGCGATTCTTCAATTAAGGAG
TGTATTAAGCTTGTGTAATTGTTAATTTCTCTGTCCCACTCCATCCAGGTCGTGTGATTCCGATGCTATTGCTTTATTTGT
AACCATTATAAGCTGCAATAAACAAGTTGGGGTGGGCGAAGAACTCCAGCATGAGATCCCCGCGCTGGAGGATCATC
CAGCCGTGGGGGCGGGAGTTTCGCCCTGCGCGACCCGGCCGCAACTGCGTGCACCTCGTGGCCGAGGAGCAGGACT
GACACGTGCTACGAGATTTGATTCCACCGCCGCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCG
GCTGGACGTGGTGTAAATCTTTATATTATGATGGAAGATCACGCTGGGACGTACGGGTTGGGGGACAGGAAAGATCA
GGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGGTTAGTGGACAGCCATGCAC
AGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGGGAACAGTTTGCATCCAGAATTGCAAAGAAATTTTAAATACA
TTATTGTCTTAGACTGTCAGTAAAGTAAAGCCTCATTAAATTTGAGTGGCCAAGATAACTCAAGCAGTGAGATAATGG
CCAGACACGGTGGCTCACGCCTGTAATCTCGAGCATGCATCTAGAGGGCCCTATTCTATAGTGTACCTAAATGCTAG
AGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGGCCCTCCCCCGTGCCTTCTTGACCC
TGGAAGGKGCCTCCACTGTCCTTTCTAATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGKGTCAATCNAT
TCTGGGGGGKKGTTGGGGCAGGAMNGCCAAGGGGAAGA

>232P-O CMV-for

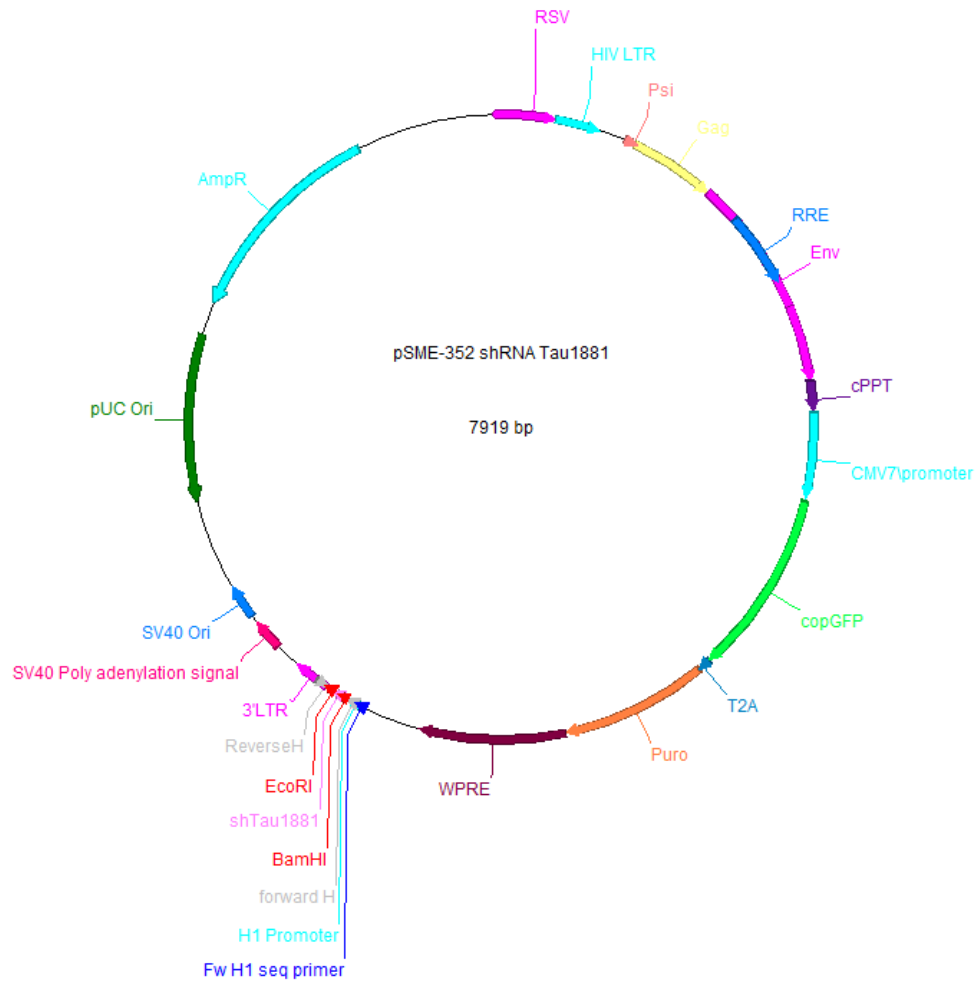
AGAGCTCTCTGGCTACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAG
CTTGGTACCGAGCTCGGATCCGTGAACTTTGAACCAGGATGGCTGAGCCCCGCCAGGAGTTCGAAGCTGATGGAAGA
TCACGCTGGGACGTACGGTTGGGGGACAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGA
CACGGACGCTGGCCTGAAAGGTTAGTGGACAGCCATGCACAGCAGGCCAGATCACTGCAAGCCAAGGGGTGGCGG
GAACAGTTTGCATCCAGAATTGCAAAGAAATTTTAAATACATTATTGTCTTAGACTGTCAGTAAAGTAAAGCCTCATT
ATTTGAGTGGCCAAGATAACTCAAGCAGTGAGATAATGGCCAGACACGGTGGCTCACGCCTGTAATCTCGAGCATG
CATCTAGAGGGCCCTATTCTATAGTGTACCTAAATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCC
AGCCATCTGTTGTTTGGCCCTCCCCCGTGCCTTCTTGACCCTGGAAGGTGCCACTCCACTGTCCTTTCTAATAAAAT
GAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGG
AGGATTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTG
GGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTG
ACCGCTACACTTGCCAGCGCCCTAGCGCCCCGCTCCTTTGCTTTCTCCCTTCTCGCCACGTTTCGCCGGCTTTCCC
CGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTCCGATTTAGTCTTTACGGCACCTCGACCCAAAAAACTTGATT
AGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTA
ATAGTGGACTCTTGTCCAACTGGAACAACMCTCAACCCTATCTCGGTCTATTCTTTGATTTWAAGGGATTTTGCCG
ATTCGCGCANNATTGGTTAAAAAT

PLASMIDS MAPS AND SEQUENCING

shRNA SEQUENCE

pSME-352 shRNA Tau1881:

Full map:



FASTA Sequence information:

>shRNA 1881 A1_H1 Promoter FWD

```
GATTGGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCTGGTGAACCTCCAAAATCACTTCCTGTCAGATGATTT  
TGGAGGTTCAACATTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCT  
GGGAGCTCTCTGGCTAACTAGGGAACCACTGCTTAAGCCTCAATAAAGCTTGCTTGAGTGCTTCAAGTAGTGTGTG  
CCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCCTTCAGTCAGTGTGAAAATCTCTAGCAGTAGTAG  
TTCATGTCATCTTATTATTCAGTATTTATAAATTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTTTATTGCA  
GCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGG  
TTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCTAACTCCGCCCATCCCGCCCTAACT  
CCGCCAGTCCGCCATTCTCCGCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCTCGGCCTC  
TGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGACTTTTGCAGAGACCAAATTCGTAATCATGTCAT
```

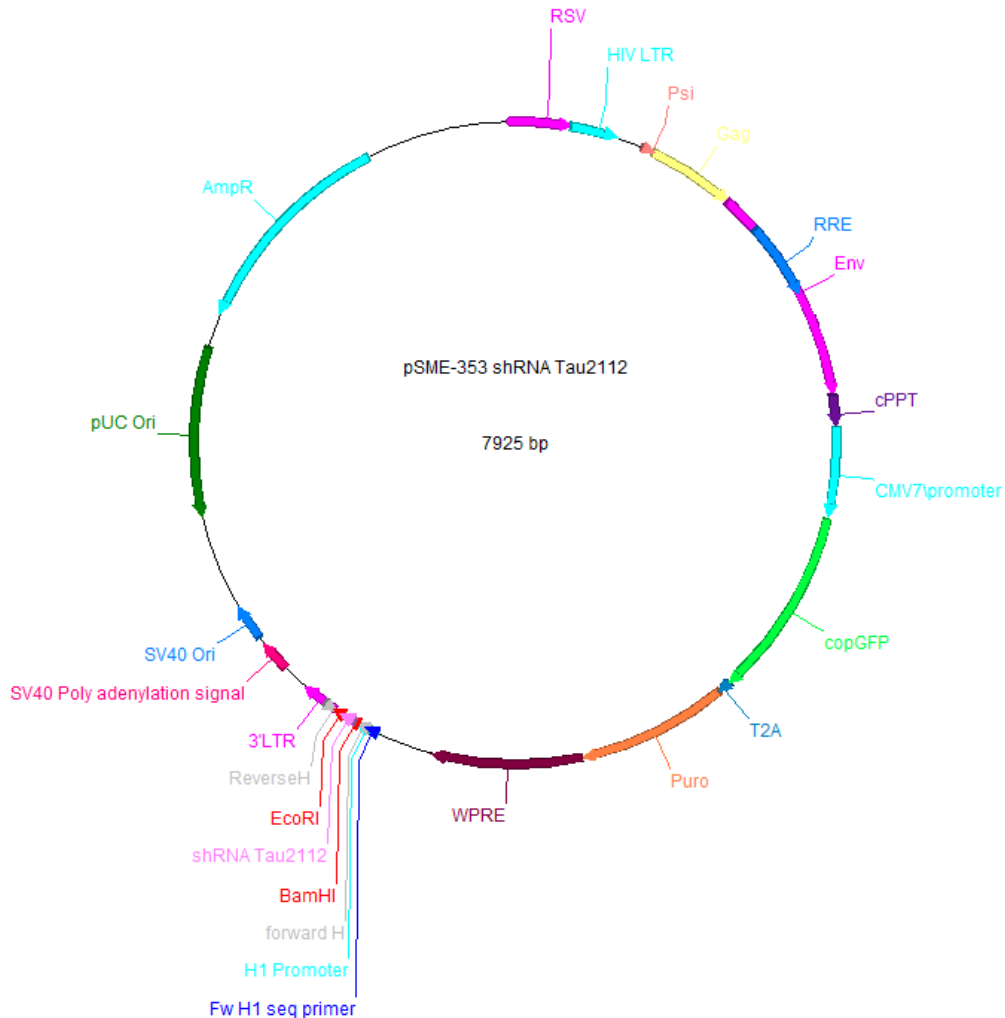
AGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCT
GGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGT
GCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTCCGCTTCCTCGCTCA
CTGACTCGCTGCGCTCGGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAG
AATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAAGGCCGCGT
TGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCMCAAAAATCGACSCTCAAGTCAAAGGTGNGAAACCC
GAMMGACTWWAAGATACCAGGCGTTTTCCCTGGAAGCTCCCYCGKGSSTCYCTGTTCCRACCTGCCSCTTACGGA
AAC

>shRNA 1881 B1_H1 Promoter FWD

GGATTGGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCTGGTGAACCTCCAAAATCACTTCCTGTGAGATGATT
TTGGAGGTTACCATTTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCC
TGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGT
GCCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTCAGTCAGTGTGGAAAATCTCTAGCAGTAGTA
GTTTCATGTCATCTTATTATTAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTTATTGC
AGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTG
GTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTTAGCTATCCCGCCCCTAACTCCGCCATCCCGCCCCTAA
CTCCGCCAGTCCGCCATTCTCCGCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCTCGGCC
TCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGACTTTTGCAGAGACCAAATTCGTAATCATGTC
ATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCC
TGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCG
TGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTCCGCTTCCTCGCTC
ACTGACTCGCTGCGCTCGGTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACA
GAATCAGGGGATAACGCAGGAAAGACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAAGGCCSCGTT
GCTGGCGTTTTTCCATAGGCTCCGCCCCCTGAC

pSME-353 shRNA Tau2112

Full map:



FASTA Sequence information:

>shRNA 2112 A1_H1 Promoter FWD

```
GATTGGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCAAACTGAGAACCTGAAGCACCAGCTTCCTGTCAGACT  
GGTGCTCAGGTTCTCAGTGTTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATCT  
GAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTCAAGTAG  
TGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTCAGTCAGTGTGGAAAATCTCTAGCAG  
TAGTAGTTCATGTCATCTTATTATTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTT  
ATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTCACAAATAAAGCATTTTTTCACTGCATTCTAG  
TTGTGTTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCTAACTCCGCCATCCCGCC  
CCTAACTCCGCCAGTCCGCCATTCTCCGCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCT  
CGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTGGAGGCCTAGACTTTTGCAGAGACCAAATTCGTAATC  
ATGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGTA
```

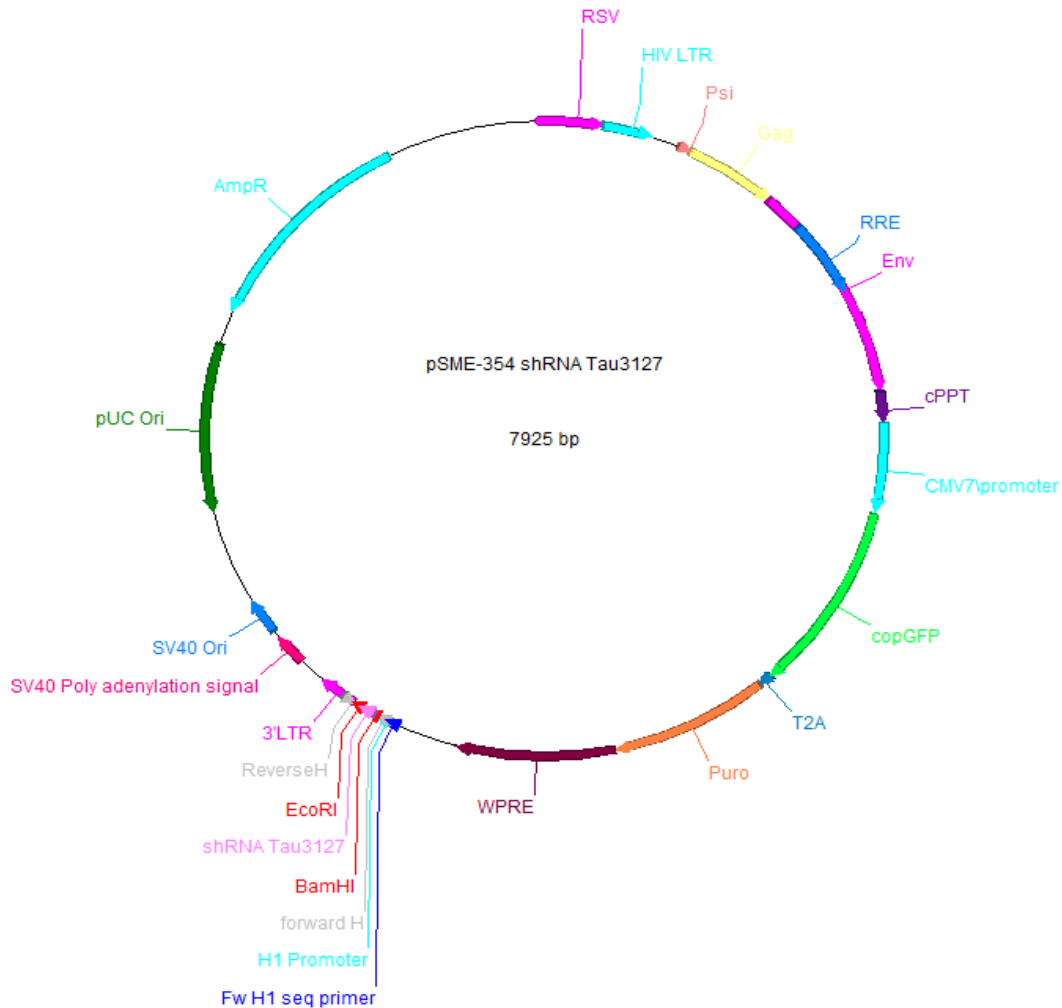

AAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACC
TGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTCCGCTTCCCT
CGCTCACTGACTCGCTGCGCTCGGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTAT
CCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAAGGCCAGCAAAAAGGCCAGGAACCGTAAAAAG
CCSCGTTGCTGGCGTTTTTTCATAGGCTCCGCCCCCTGACGAGCATCMMAAAAANTCGACNCT

>shRNA 2112 B1_H1 Promoter FWD

GGATTTGGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCAACTGAGAACCTGAAGCACCAGCTTCTGTCAAGAC
TGGTGCTTCAGGTTCTCAGTGTTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATC
TGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTA
GTGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTCAGTCAGTGTGGAAAATCTCTAGCA
GTAGTAGTTCATGTCATCTTATTATTTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTT
TATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTA
GTTGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCTAACTCCGCCCATCCCGC
CCCTAACTCCGCCAGTTCGCCCATCTCCGCCCATGGCTGACTAATTTTTTTTTATTTATGCAGAGGCCGAGGCCGCC
TCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGACTTTTGCAGAGACCAATTCGTAAT
CATGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGT
AAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAAC
CTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTCCGCTTCC
TCGCTCACTGACTCGCTGCGCTCGGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTA
TCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAAGGCCAGCAAAAAGGCCAGGAACCGTAAAAAG
GCCGCGTTGCTGGCGTTTTTCTAGGCTCCGCCCCCTGACGAGCATCMCAAAAATCGA

pSME-354 shRNA Tau3127:

Full map:



FASTA Sequence information:

>shRNA 3127 A1_H1 Promoter FWD

```
GGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCAGCAGACGATGTCAACCTTGTGCTTCTGTCTCAGACACAAGG
TTGACATCGTCTGCCTTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCC
TGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGT
GCCCCTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTCAGTCAGTGTGGAAAATCTCTAGCAGTAGTA
GTTTCATGTCATCTTATTATTAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTATTATGC
AGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTG
GTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCTAACTCCGCCCATCCCGCCCTAA
CTCCGCCAGTCCGCCATTCTCCGCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCTCGGCC
TCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGACTTTTGCAGAGACCAAATTCGTAATCATGTC
ATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCC
```

TGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTCCAGTCGGGAAACCTGTCG
TGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTCCGCTTCCTCGCTC
ACTGACTCGCTGCGCTCGGTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCMC
AGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGC
GTTGCTGGCGTTTTTCCWAAGGCTCCGCCCCCTGACGAGCATCMMAAAATCRACGCTCAAGTCAAAGGNGGCGAA
ACCCGA

>shRNA 3127 B1_H1 Promoter FWD

ATTTGGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCAGCAGACGATGTCAACCTTGTGCTTCTGTCAGACACA
AGGTTGACATCGTCTGCCTTTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATCTG
AGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGT
GTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTCAGTCAGTGTGGAAAATCTCTAGCAGT
AGTAGTTCATGTCATCTTATTATTTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTA
TTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTACTGCATTCTAGT
TGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCTAACTCCGCCCATCCCGCCC
CTAACTCCGCCAGTTCGCCCATTTCTCCGCCCATGGCTGACTAATTTTTTTTTATTTATGCAGAGGCCGAGGCCGCCCTC
GGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGACTTTTGCAGAGACCAAATTCGTAATCA
TGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGTA
AGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTCCAGTCGGGAAACCT
GTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTCCGCTTCCTC
GCTCACTGACTCGCTGCGCTCGGTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATC
CACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGC
CGCGTTGCTGGCGTTTTTCMNAGGCTCC

pSME-358 shRNA p53:

Full map:



FASTA Sequence information:

>shRNA p53 A_H1 Promoter FWD

```
NTTGGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCGACTCCAGTGGTAATCTACCTTCTGTCTCAGAGTAGATTA  
CCACTGGAGTCTTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGG  
GAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCC  
CGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTCAGTCAGTGTGGAAAATCTCTAGCAGTAGTAGTT  
CATGTCATCTTATTATTCAGTATTTATAAATTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTTATTGCAGC  
TTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTCTACTGCATTCTAGTTGTGGTT  
TGTCAAAATCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCTAACTCCGCCATCCCGCCCCTAACTCC  
GCCAGTTCGCCCATCTCCGCCCATGGCTGACTAATTTTTTTTTATTTATGCAGAGGCCGAGGCCGCTCGGCCTCT  
GAGCTATCCAGAAGTAGTGAGGAGGCTTTTTGGAGGCCTAGACTTTTGCAGAGACCAAATTCGTAATCATGTCATA  
GCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGAAAGCCTG  
GGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTCCAGTCGGGAAACCTGTCGTG
```

CCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGC GTATTGGGCGCTCTCCGCTTCCTCGCTCAC
TGA CTGCTGCGCTCGGTCGTTCCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAG
AATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAAGGCCGCGT
TGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCMCAAAAATCGACGCTCAAGTCAAAGGTGGCGAAAC
CCGACAGGACTWTAAGATAACCAGGCGTTTCCCCTGGAAGCTCCCTCGKGSCTYYCTGTTCGAACCTGCCGCTTAC
CGGAWACCTGTTTCGCCTTTYCCTTCGGGA

>shRNA p53 B_H1 Promoter FWD

TNTGGGATCTTATAAGTTCTGTATGAGACCACTTGGATCCGACTCCAGTGGTAATCTACCTTCCTGTCAGAGTAGATTA
CCACTGGAGTCTTTTTGAATTCTTCGATTCTGCTTTTTGCTTCTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGG
GAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCTTGAGTGCTTCAAGTAGTGTGTGCC
CGTCTGTTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTCAGTCAGTGTGGAAAATCTCTAGCAGTAGTAGTT
CATGTCATCTTATTATTCAGTATTTATAAATTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTTATTGCAGC
TTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTT
TGTCCAAACATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCC
GCCAGTTCGCCCATTCTCCGCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCTCGGCCTCT
GAGCTATCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGACTTTTGCAGAGACCAAATTCGTAATCATGTCATA
GCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTG
GGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAACCTGTCGTG
CCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGC GTATTGGGCGCTCTCCGCTTCCTCGCTCAC
TGA CTGCTGCGCTCGGTCGTTCCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAG
AATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAAGGCCGCGT
TGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCMMAAAAATCGACGCTCAGGTCRRAGGTGGCGAAAC
CCGACAGGACTWTAAGAWNCCAGGCGTTTCCCCTGGAAGCTCCCTCGTGSCTYYYCTGTTCCNACCTGCCGCTTA
CGGAANACTGTTTCGCCTTTYCCTTCGGGAA