

Sequences of DNA stuffer used in the study

Minute Mos1 transposon sequence (3' ITR are in gray box)

TA-TCAGGTGTACAAGTATGAAATGTCGTTTGATATCAAGCTTGAATTCGCTGCAATAA
ACAAGTTAACAACAACAATTGGATCCACTAGTTCTAGAAAACGACATTTTCATACTTGTAC
ACCTGA-TA

Tetracycline 1191 bp (61.4% GC / 37 TA)

ATGAAATCTTAACAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTAGGC
ATAGGCTTGGTTATGCCGGTACTGCCGGGCCCTCTTGCGGGATATCGTCCATTCCGACAGC
ATCGCCAGTCACTATGGCGTGCTGCTAGCGCTATATGCGTTGATGCAATTTCTATGCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTTCGC
CTTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGTCCTGTGGATCCTCTAC
GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCCATATATC
GCCGACATCACCGATGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTTC
GGCGTGGGTATGGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTG
GCACCATTCCTTGCGGCGGGCGGTGCTCAACGGCTCAACCTACTACTGGGCTGCTTCC
ATGCAGGAGTCGCA TAAGGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGACTATCGTTCGCGCACTTATGACTGTCTTCTTT
ATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTCTGGGTCAATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTTCGGTATTCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCAT
ATCGCCGGCATGGCGGCCGACGCGCTGGGCACGTCTTGTGCGGTTTCGCGACGCGAGGC
TGGATGGCCTTCCCCATTA TGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG
CAGGCCATGCTGTCCAGGCAGGTAGATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCTTACCAGCCTAACTTCGATCACTGGACCGCTGATCGTCACGGCGATTATGCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGGCGCCGCCATATACCTTGT
TGCTCCCCGCGTTGCGTTCGCGGTGCATGGAGCCGGGCCACCTCGACCTGA

Tetracycline [TA-rich] 1191 bp (87 TA)

ATGAAATCTTAACAATGCGCTAATAGTTCATCCTAGGCACCGTAACCCTAGATGCTGTAGGC
ATAGGCTTAGTTATGCCGGTACTGCCGGGCCATTAACGGGATATCGTCCATTCCGACAGC
ATCGCCAGTCACTATGGCGTGCTGCTAGCGCTATATGCGTTTATGCAATTTCTATGCGCA
CCCGTACTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTTCGC
CTAGGAGCCACTATCGACTACGCGATAATGGCGACCACACCCGTAATAATGGATACTATAC
GCCGGACGCA TAGTGGCCGGCATAACCGGCGCCACAGGTGCGGTAGCTGGCGCCATATATC
GCCGACATTAACCGATGGGAAGATCGGGCTCGCCACTTCGGGC TAATGAGCGCTTGTTTC
GGCGTGGGTATGGTGGCAGGCCCGTAGCCGGGGACTATTAGGCGCCAATCCTTACAT
GCACCATTCCTAGCGGCGGGCGGTGCTAAACGGCTCAACCTACTACTGGGCTGCTTCC
ATGCAGGAGTCGCA TAAGGGAGAGCGTCGACCGATGCCCTTAAGAGCCTTCAACCCAGTA
AGCTCCTTCCGGTGGGCGCGGGGCATGACTATCGTAGCCGCACTTATGACTGTATTCTTT
ATAATGCAACTCGTAGGACAGGTACCGGCAGCGCTCTGGGTCAATTCGGCGAGGACCGC
TTTCGCTGGAGCGCTACGATGATAAGCCTGTGCTAGCGGTATTCGGAATCTTACACGCC
CTCGCTCAAGCCTTCGTA ACTTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCAT
ATCGCCGGCATGGCGGCCGACGCGCTGGGCACGTCTTGTGCGGTTTCGCGACGCGAGGC
TGGATGGCCTTCCCCATTA TGATACTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGT
CAGGCCATGC TATCCAGGCAGGTAGATGACGACCATCAGGGACAGCTACAAGGATCGCTC
GCGGCTCTTACCAGCCTAACTTCGATAACTGGACCGCTGATAGTTCACGGCGATATATGCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGGCGCCGCCATATACCTAGTC
TGCTTACCCGCGTTACGTTCGCGGTGCATGGAGCCGGGCCACCTCGACCTGA

Tetracycline [TA-poor] 1191 bp (14 TA)

ATGAAATCAAACAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTTGGC
ATTGGCTTGGTTCATGCCGGTCTGCGGGCCTCTTGCGGGACATCGTCCATTCCGACAGC

ATCGCCAGTCAC**T**ATGGCGTGCTGCTTGGCGCTT**T**ATGCGTTGATGCAATTTCTTTGGCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTTCGCTT
CTTGGAGCCACAATCGAC**T**ACGCGATCATGGCGACCACACCCGTCCTGTGGATCCTC**T**AC
GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCC**T**ACATC
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTC
GGCGTGGGAATGGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTGCAT
GCACCATTCTTGGCGCGGCGGTGCTCAACGGCCTCAACCTTCTTCTGGGCTGCTTCCT**T**
ATGCAGGAGTCGCACAAGGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGACAATCGTCGCCGCAC**T**AATGACTGTCTTCTT**T**
ATCATGCAACTCGTTGGACAGGTGCCGGCAGCGCTCTGGGTCATTTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTGGGTTTTCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTTCGGCGAGAAGCAGGCCAT**T**
ATCGCCGGCATGGCGGCCGACGCGCTGGGC**T**ACGTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCAT**T**ATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG
CAGGCCATGCTGTCCAGGCAGGTTGATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCTCACCAGCCT**T**ACTTCGATCACTGGACCCTGATCGTCACGGCGATT**T**ATGCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTTGGCGCCGCCCTT**T**ACCTTGT
TGCTCCCCGCGTTGCGTTCGCGGTGCATGGAGCCGGGCCACCTCGACCTGA

Kanamycin 1185 bp

ATGAGCCATATTTCAACGGGAAACGTCCTTGCTCTAGGCCGCGATTAAATTTCCAACATGGAT
GCTGATTTATATGGGTATAAATGGGCTCGCGATAATGTCGGGCAATCAGGTGCGACAATC
TATCGATTGTATGGGAAGCCCGATGCGCCAGAGTTGTTTCTGAAACATGGCAAAGGTAGC
GTTGCCAATGATGTTACAGATGAGATGGTCAGACTAAACTGGCTGACGGAATTTATGCCT
CTTCGACCATCAAGCATTTTATCCGTACTCCTGATGATGCATGGTTACTCACCCTGCG
ATCCCCGGGAAAACAGCATTCCAGGTATTAGAAGAATATCCTGATTCAGGTGAAAATATT
GTTGATGCGCTGGCAGTGTTCCTGCGCCGGTTGCATTTCGATTCTGTTTGTAATTGTCCT
TTTAACAGCGATCGCGTATTTCTGCTCAGGCGCAATCACGAATGAATAACGGTTTG
GTTGATGCGAGTGATTTTGATGACGAGCGTAATGGCTGGCCTGTTGAACAAGTCTGGAAA
GAAATGCATAAACTTTTGGCATTCTCACCGGATTCAGTCGTCACCTCATGGTGATTTCTCA
CTTGATAACCTTATTTTTGACGAGGGGAAATTAATAGGTTGTATTGATGTTGGACGAGTC
GGAATCGCAGACCGATAACCAGGATCTTGCCATCCTATGGAAGTGCCTCGGTGAGTTTTCT
CCTTCATTACAGAAACGGCTTTTTTCAAAAATATGGTATTGATAATCCTGATATGAATAAA
TTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAAGAATTAATTCATGAGCGGATACAT
ATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGT
GCCACCTAAATTGTAAGCGTTAATATTTTTGTTAAAATTCGCGTTAAATTTTTGTTAAATC
AGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAGAATAG
ACCGAGATAGGGTTGAGTGTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAGAACGTG
GACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCACTACGTGAACCAT
CACCTAATCAAGTTTTTTTTGGGGTTCGAGGTGCCGTAAAGCACTAA

Bsr gene 423 bp

ATGAAGACCTTCAACATCTCCCAGCAGGATCTAGAATTAGTAGAAGTAGCGACAGAGAAG
ATTACAATGCTTTATGAGGATAATAAACATCATGTGGGAGCGGCAATTCGTACGAAAACA
GGAGAAATCATTTTCGGCAGTACATATTGAAGCGTATATAGGACGAGTAACTGTTTGTGCA
GAAGCCATTGCGATTGGTAGTGCAGTTTCGAATGGACAAAAGGATTTTGACACGATTGTA
GCTGTTAGACACCCTTATTCTGACGAAGTAGATAGAAGTATTCGAGTGGTAAGTCCTTGT
GGTATGTGTAGGGAGTTGATTTTCAGACTATGCACCAGATTGTTTTGTGTTAATAGAAATG
AATGGCAAGTTAGTCAAACTACGATTGAAGAACTCATTCCTCAAAATATACCCGAAAT
TAA

Sh-ble gene 375 bp

ATGGCCAAGTTGACCAGTGCCGTTCCGGTGCTCACCGCGCGGACGTCGCCGGAGCGGTC
GAGTTCTGGACCGACCGGCTCGGGTTCTCCCGGGACTTCGTGGAGGACGACTTCGCCGGT
GTGGTCCGGGACGACGTGACCCTGTTTCATCAGCGCGGTCAGGACCAGGTGGTGCCGGAC
AACACCCTGGCCTGGGTGTGGGTGCGCGGCCTGGACGAGCTGTACGCCGAGTGGTCGGAG
GTCGTGTCCACGAACTTCCGGGACGCCTCCGGGCCGGCCATGACCGAGATCGGCGAGCAG
CCGTGGGGGCGGGAGTTCGCCCTGCGCGACCCGGCCGGCAACTGCGTGCACCTTCGTGGCC
GAGGAGCAGGACTGA

Sh-ble gene [no TA] 375 bp

ATGGCCAAGTTGACCAGTGCCGTTCCGGTGCTCACCGCGCGGACGTCGCCGGAGCGGTC
GAGTTCTGGACCGACCGGCTCGGGTTCTCCCGGGACTTCGTGGAGGACGACTTCGCCGGT
GTGGTCCGGGACGACGTGACCCTGTTTCATCAGCGCGGTCAGGACCAGGTGGTGCCGGAC
AACACCCTGGCCTGGGTGTGGGTGCGCGGCCTGGACGAGCTGTTCCGCCGAGTGGTCGGAG
GTCGTGTCCACGAACTTCCGGGACGCCTCCGGGCCGGCCATGACCGAGATCGGCGAGCAG
CCGTGGGGGCGGGAGTTCGCCCTGCGCGACCCGGCCGGCAACTGCGTGCACCTTCGTGGCC
GAGGAGCAGGACTGA

Puro gene 662 bp

ATGACCGAGTACAAGCCACGGTGCGCCTCGCCACCCGCGACGACGTCCCCCGGGCCGTA
CGCACCTCGCCGCCGCGTTCGCCGACTACCCGCCACGCGCCACACCGTCGACCCGGAC
CGCCACATCGAGCGGGTCACCGAGCTGCAAGAACTCTTCCTCACGCGGTTCGGGCTCGAC
ATCGGCAAGGTGTGGGTGCGCGACGACGGCGCCGCGGTGGCGGTCTGGACCACGCCGGAG
AGCGTCGAAGCGGGGCGGTGTTTCGCCGAGATCGGCCCGCGCATGGCCGAGTTGAGCGGT
TCCCGGCTGGCCGCGCAGCAACAGATGGAAGGCCCTCCTGGCGCCGACCCGGCCCAAGGAG
CCCGCGTGGTTCCTGGCCACCGTCGGCGTCTCGCCGACCACCAGGGCAAGGGTCTGGGC
AGCGCCGTCGTGCTCCCCGGAGTGGAGGCGCCGAGCGCGCCGGGTGCCCGCCTTCCTG
GAGACCTCCGCGCCCCGCAACCTCCCCTTCTACGAGCGGCTCGGCTTCACCGTCACCGCC
GACGTCGAGGTGCCGAAGGACCGCGCACCTGGTGCATGACCCGCAAGCCGGTGCCGTA
CGCCCGCCCCACGACCCGCGAGCGCCGACCGAAAGGAGCGCACGACCCCATGGCGCGCCT
GA

Fragment 1 1256 bp (50.8% GC)

AAAAGATAGACAGTGTGATTA AAAAGACTGGACGACATTA AAAATTTTG TATCTGACACCCG
AACGGGTGGTGTGTCGAACCAACTGATGGACGCGTAGCAACTCGGGTCTGTCGAA TAG
TGA TAGACGAGGCACACTGTGTCTGTGAGTGGGGGCACGATTT TAGATCCGACT ACC TAA
AACTCTCCGTCCTTCGAAC TATTTTCCGAGCGTGCCGACTACTGGCTTGACCCGCGACGG
CGACCCCGCGCGTGCAGGGATATCGTTCGCTTGCTCGGCCTTCGCGAAAACCTTCGAGA
CGTTCGTCGGTTCGTTTCGACAGACCCAATC TAAAAATCAGCGTT TACA AAAAGACTCCTC
GTCACACACTGACCGTGGTGGACCTCGTGAAGGCGAGAGCCGGCTCTTCGATCG TATA TT
GTCTTTCGAGACGCGAAACCGAGGCGGTGCGT AACGCTTTGAAATGCGCCGGATTTAGCG
CGGAGGCG TATCACGCGCAATGACTCCCAAGAACCGCACTTCCGTGCAGAACAGATGGA
TGGCGAACGAGACCCGAGTGATATGTTTCGACGATAGCGTTCGGGATGGGCATCGATAAC
CCGACGTGCGGTTGGTGTATCATCACAGTATGCCCAAATCACTGGACGGTTAT TATCAAG
AGATAGGAAGGGCCGGTTCGCGACGGA AAACTGTCGGAGTG TATCGCCTTTTACGGCGCCA
ACGACGTCTCGAGATACAAA TATCTTTTCAGGATCAGCCAGAGCGACAATCCAGGAACA
ATAAGATGCTGTCCACAATGTACACGTTCTGTACCAACACCTCCATTTGTGCGAGACGTC
AAATATTGCGGTACTTTCGACGAGACGGTGGGCGACAGGGTCTTATGCGATTCTGTAAATT
CTTGCGACAACCTGTAAATTTTATTTTGGTTTCTTACGCGCGCGCGTTAGAAATCACATGT
ATGAA TATTTCTGGCTGTCCGCCATACGCTCTTGTCGTTGACATTGACGACTATCATGT
CGGGGAGTTCTCTGACGATAAAAACACCA TAAGCGGTTTCTACGATACTGTACGGCACTT
CTACGACTTCGCCCCGACGACGTCGCCACCAGAACCTTGTCGCTGTCGTAGAACATGAGCG
AATTGGCCCC TAGATTTATTTCTTTTACCGAGAAGATCAAATTCGGCCACGAGCGGCCTTC
TGAAATCGTTTCTCATCATGTATTGGACGTCGGTACGACGAGATCCGGGGAATTC

Fragment 6 1100 bp (43.3% GC)

TGTCACCGAATCGTATATTGGTTATAGACATGGCGCCTTCCGTGATAACTGACACACACA
CACACACACACAATCTATTGTCAACCATCAATTCCTTTTGATCGACACATCGGGGTCA
GTTGGTTTTTTTGCTTTTTTAGTGTGATAATTCGATTTTTTACTACGATACAGTGGGTCG
TGAAAAGGGACTTTTTGATTAATAACGAGCACTCGCACACCCCATCGAACGATTTTC
ATCGGACGGAACGTGTTGTGACGGCGGTGAATATCTACTTGTGACACGTTTACAAAGTT
AACTTTAAAGTGCAAACGATACGTAACGCATCGAAGATCCTGCTCCAAACGACCCTGCG
CAACTACATCGAAAAGAACGTGAAACAGGTCGCCTGCTACTTTGTGCGTGGTGTCAACGA
CGGTAACGACGGCCACAACA TACTCACAACCCCGGAAC TACTCATTGTCCCAGCTGTAT
GCATTGTTTACGTTGTACAGGGTGC GCGCGATAACCGAAAGTGTTTCTCATACAATCGTGT
TTGGGTGCTAAGATAGATCCAGTCATTGCGATCGAGCGTCGTGTCAATGTGACCAAGAA
GAAGACGCGCATCCACGTCCGTGTGTCACGACATCTTCGTCAACACAGTTCGTGCTGTG
ATACACGCATGCAGTCGAAAATCTAAGGGTGC GACAACAAC TACCGAAACTAAATGTTGG
GATGTGGCGAGAGGGGTTCTCACATGACGGCACAGGGAAGAAATATCATAGTTTATTTG
CGTATGGAAGGGTATGTGAGGTAGGGTGCACAAAGTGTGGGTGTTTGATGATTGAGAAA
TTTTGAAAAATCTCATAAAATAGGGTACTAGAGGAGTGTACACACAAGGATAAGGATG
GTACAAAAGGAAATGCAAATCAGGGATCCAAAATATGTACCAATTGTGGAAATGAATTGT
ACAAAATGTTATTTCTGGGGGAGGAGAAACAATATAATAATGGAAGAGTATTAGATTTGG
GTTGGGGTGGGGTGGTCTGTTTGTGAAA TAAAAGTCTGGGCTTTTACTGCTAAAATTTA
TTGAAATGGATTCGAAAGAAAGGGAATTCA

Fragment 46 1056 bp (50% GC)

AAGGACAATCCCGGCTGTGCACAAGTCGACAACATGTACTACATACAACAGCTGGTCAAC
CCTCTCAC TAAGGTTTCCGAAGCGGTGTGGCGCCGCAGTAACAGCGT TAACATTGCCATC
GCGCCGTTTCATCTAT TACAATAAGGTTT TAGCTCAATTGTCAAC TAGGTTTAAGATTTG
CAATAAACTACAATGGGTACAAAACAAAATTTGTTTTATTTTCATTTTCTCAAATACACG
ATTCGATCCACCAGGTTTCTCCTCGGTATAATTCC TAGAAGTCCACATGCGATCCGCACATG
ATGTAGGTGCGATCTCGTCGAACCGTTGCGCCGACAATCTATTTCATCTGTACGTGCATCA
ATGTGATGAAGTCATCGAGACACTGTGCAAAATCAACGGGGCAGCTGCCGACGATGCGGT
CCGTCAACGTGCCGACAATCGTGCACCTTGTGACGCTCAAGTCATCGACGTAGTGTCTAAC
GGTAGCGGCCAGCAGTTCACGATCTCGTCCGAGTGTGGGCGTGTGATAACCGTGGTCCGT
CTCAGCGCGTACACGAGCGGTGTGATACGACGATTGTGCTTCTGATCGTGCCGTTTCCAGG
ATTTCTGAGTGAGTCTTGTGTATTTTCATGGTAGTTACGTAGATAATGCACCCTCGGTGGGA
TCGATGACGC TAGTCAAACGCATGGTGGATGGGTAGAGACACGGCCACCGAATGGTGATC
ACGCACACCCGCTATGGTTGCATTAATCCGTAAGTGCCGGGTACTCGTGCCAATCAACT
CGGCACACACCACACCCGACAGATGTTTTCGAAGTCGCTACTGCGCAAGCCTTC TAGCGCA
GCGTG TAAAA TAGTTATGGAATTGGAATGTAATGCGTTCACGGGCCGCTGTTGCTCGATC
AAGTCGATCAGCTCGTCCACCAGTTGCAGTCGA TATCTTCTCGGGTCCGATGTCTGTAGC
CAAGTCGATGAAATCGTGCGTGGTACGTGCGGAAATGCTTCCCCTCCAATCTATGGTG
CCGTATTCGAAAACACACC TACACTTGCCGATACAC

Fragment 108 1123 bp (37.7% GC)

TGGAGCGTTACCGTTTATGCCAATCGCAATGTGCACAACA TACATGGGAAGAAAAAGTAT
TCTTGAAGTTGTAGAACACGTGAAAGAT TATGGAGGAACAGTGGTGTACGGGGACACGGA
CTGCCTTTTGTGCAACCACTCCTGTTTTAATTCGAAAAGACGACAGCGATGTTTTTTTTTAC
AACTGTGGATGAGT TAAG TAAAAATGACTGGGAG TACA TAAATCCCAACAAAGACATCTC
GTCCCCAAAGAAAAT TACGAAA TATGGAGTGACACAGGATTTACAAAAGATCGAAAATGT
TGTAAGATGTAAAA TAGACGAGCCCTAAAACGTGTAAC TACACATGTGGGCTCTGTAAT
TTGTTCCGACAACCACTCCT TACTCACCGAAAATTTGACAGGTGTAACACCAAATGATGT
TGT TATAGGGGATAGATTGTGTGTAAGAGAACTTCCGT TACAACAAGA TACACCACAAGT
TCCAA TATATATAA TAGACT TACCGCAGAGAGGATCCAAATG TATGAAATCCAGAAGT
TTCT TACCTAACGTGTCTGCCAAAATGGCTTTTGTATGGGGAT TATTTTTTTCGGACGG
TGGTGCCGGTATT TACAAAACAAAGCAAATCTAATTGTTTGTCTAATTTTCACATGGGC TAT

CAA**TA**AAGCTCTGTCACGT**TAT**GAAATGGGAGGATCATGTGTCATGTGAACATGATCCAA
AAATCATCAGAAAAAAGAAT**TA**ACAGTCAAAA**TAG**ACGAATTGAAAAGAAAGAT**TA**AGG
ATGAAAAGGACAGGGG**TAG**GAAGGAT**TA**AGT**TAAAAA****TAG**ACTTGGCGTCCT**TA**ACAAAAG
AAAGGT**CTAACATA**ACAAAAAACT**TAG****TAAAAGTGT****TAT**GTGTGCT**TA**AAAGAAGT**TATA**
GATTTT**TAAAAGAGCCTCGAGGAGTTCTTCCGACAATCA****TA**AAGGATCTTCTGGACGCCA
GAAAAACACTCGTGC GGAAA**TAAAAA****TAT**GGCAAAA**TA**AACT**TA**AATCAGCAGGTGGTCT
TTGAAGAACAAGAAATCGCAAAATCAATGATCCAAATTCTGGACCAAAGACAAAATTCGT
ACAAAGTCAGTGC**TA**ACTCAATG**TAT**GGAGCAACCGGT**TAG**

Fragment 116 1141 bp (44.3% GC)

GCGGAGATTT**TATA**AGCGAGCTGTGACT**TAT**CGAG**TATA**TCTCGAGCWGAGGATCG**TA**AC
TTCTTCATTT**CAGCTCG****TAC**CTTCC**TGCGAGCGTCTA**AGAAG**TAT**TCAACCAATCTGG**TA**
GTGTCTCATGCGAGTTTT**CAGTATAC**GAACTCGTTGTTTT**TGCGCACAGTCTA**GAACCACC
AGACATTTCTGACTT**TAG**CACTTTCAATCGGATGGCGGCCCGCTG**TA**AATCAACCGACGA
CAGCTTGATTGATGG**TAT**CGGAGAACCGTTG**TA**AT**TAT**CATCGG**TAAA**ACCAT**TAC**ATTC
CGAG**TA**ATCTTCAACGT**CGTCA**ACTGGCT**TAC**CGGTTG**TACT**TGT**CGGCTTGA**AG**TACT**T
TG**TA**ATCGGCTGAACCCCGATGCATTTTCGCTTCTCGACTTTTGC**TAG**ATCTTCGAA**TAT**
TGACTT**TAG**TTTTTCGCGCTCTTT**TAT**GTTTGGATCGTGCTCGCAACCAACGTGATCCTC
CCATTC**TACA**ATTTCAAAGTTTTCGT**CGGTG****TAG**TCACTGTGTGCATCGT**CGT**CGATGAC
CG**TACTGTAG**CAGAGAT**TATA**AGCCATCATCAACGT**CGGATATA**TCCGACGTTGATGATG
GT**TATA**ATCTCTGC**TACAGTAC**GGTCATCGACGACGATGCACACAGTGACT**TAC**ACCGACG
AAAACTTT**GAAATTG****TAGA**ATGGGAGGATCACGTTGGTTGCGAGCACGATCCAAACA**TAA**
AAGAGCGCGAAAAAC**TAA**AGTCAA**TAT**TCGAAGAT**CTAG**CAAAAGTCGAGAAGCGAAAAT
GCATCGGGGTT**CAGCCGATTACA**AAAG**TACT**TCAAGCCGACAAG**TACA**ACCGG**TA**AGCAGT
TGACGACGTTGAAGAT**TACT**CGGAATG**TA**ATGTTT**TAC**CGATG**TA**AT**TACA**ACGGTTCT
CCG**TA**CCATCAATCAAGCTGT**CGT**CGGTTGATT**TAC**AGCGGGCCGCCATCCGATTGAAA
GTGC**TAA**AGTCAAGAATGTCTGGTGGTTC**TAG**ACTGTGCGCAAAACAACGAGTT**CGTATA**
CTGAAA**ACTCGCAGAGGACTACT****TAC**AGATTGGTTGAA**TACT**TCT**TAG**ACGCTCGCAGG
AAGG**TAC**GAGCTGAAATGAAGAACGT**TAG**CGATCCTC**TAG**CTCGAGA**TATA**CTCGA**TA**AG
T

Fragment 193 1127 bp (56.5% GC)

ACATCGAACACGCCAAGGCGATCGCCGATGAACAAGCGGCTCGTGCCCTTG**TAC**CGTTGCG
ATG**TACAGTA**ACTGGT**CGAATA**CAAACGCACCGACTCGAGCCACCATGGACATCGAAGCG
A**TAC**CGGACGTT**TAC**ACCGTCTCCG**TAC**CGGAGAGCATGGAACGTCCGATGGTGATTCTG
TTCAACGACTTGACAATCTCCGAGGATTTGGTGGTGTTCGCGACGCACGGTGAGTTGATC
AAG**TAC**GACACTCGA**TAC**CCGCCGTCGTCGGACGCAGCGCTGGCCGCCATGAGCAGTCGT
CGCGCCAGGAAGGGTGGCGAACGAGACAAACGCATCTCGTTG**TAC**ATGGTGCAGCGCGGT
ATCT**TACT**CGCCGGGCATGAAC**TAC**GACA**TAG**CGCACG**TAC**ACCAGACTCCCGGCGTGGGC
TACGTGATCACGGTGATCAG**TAATA**ACCGGCCACCCTCGACGTGCCTCGAAGTCT**TAG**TC
ACCGCACTCGGCATGGGCGGTGACGACGATCAGGTGGTGGT**GAGCGATGTCGGCGGCGGT**
GT**TACATA****TAC**ACCGCGT**CGTTCGTCC****TAA**ACGACATCACGTT**CGT**CACAG**TAC**CTGCAACA
T**TAC**ACGTTGCTCAAGTG**TAC**CGACAAGGCGACGTG**TATA**TT**CGT**CGACGAAACGCATCT
GATGAAG**TAC**CGCGGCCCTTGGCGTCGA**TACA**CAATCGCCAGTCCGCGATT**CA****TATA**CGA
G**TACAATA**ATTT**CACGGTGAAGTT****TAG**CGCGACCGTGGAGAGCACGCGCAGGGACGTGGC
TCGAGTGT**CGCC****TATTGCCGTATCCG****TATCTAC**GATGCGCCCAACACGCAGATCATG**TA**
CGGCATGGCGAACGACATA**TAC**CGCACACATGATCGAG**TACA**AGAG**TAG**GGAGCGTT**CGAT**
CCCGTCTCTG**TAC**GCCGAGAATC**TACA**CAACGATCAGCTGTTGCGGATCAACGTGCGCAT
AATGCGT**GACTCGAA**ACCGT**TAA**ACGCGAACCCGGCT**TAC**CTGGCTCGGCAACACCGACAG
GTCCG**TAG**AAA**ACTGCA**AGCGCAAAAGACCGGCACCAACGCAGACG**TAC**GCTCCCTGATC
GGTGTCAACAAC**TAC**GCCAGACAATGTGCACGCC**TAC**CT**TAC**AGCCGT

TCATCTTGAC **TATA**TCGA **TA**TGCGTGCTGTCGTGTCGAC **TAC**GAAGATTCGACGATGCCA
TCAAGGACACGGTTGAATGATGCGAG **TAC**GTCTTCGCGTGGCAAGTTCCGTTCAACACG
AAAAC TGAAC **TAT**GGTTGTCGACG **TAT**CGTTTCGTG **TAG**CATTCGACTCTTCGAAA **TAC**
TCGACGTCCAATGATTTCTCCGCCTCGCGTCCTCGTTCTGAGCTCGGCGGTGACAGGTG
TCCGGTTTCGTGTCAATG **TAC**ACGACGTGGTTCGATTCTCGGAATGTCATTCTCCAACTG
CGAAACACATCCGTG **TAC**ACGTCGAATTGTTTGTGCGGTGATCGAGCCTCGGTCTCGCATC
ATTCTGGTGAAGACGT **TAC**GCCGACCACGGCGAGCGTTCCATGA **TA**ACGACTCGAGCT
CCGGTTCGACAGACATGTCTCG **TAC**GAGTCCAACCACTTTTGA **TATTTA**CTCGTCAGCACT
TGCAGCTCGAAGGGGAAAGCG **TATC**

Tet-1 (56.3% GC)

ATGAAATC **TA**ACAATGCGCTCATCGTCATCCTCGGCACCGTCACCCCTGGATGCTG **TAG**GC
ATAGGCTTGGT **TAT**GCCGG **TACT**GCCGGGCTCTTGCGGG **TAT**CGTCCATTCCGACAGC
ATCGCCAGTCACT **TA**TGGCGTGCTG **TAG**CGC **TATA**TGCGTTGATGCAATTT **TAT**GCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTTCGC **TA**
CTTGAGCCAC **TAT**CGAC **TAC**GCGATCATGGCGACCACACCCGTCCTGTGGATCCTC **TAC**
GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCC **TATA**TC
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTTC
GGCGTGGG **TAT**GGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTGCA
GCACCATTCTTGCGGCGGGCGGTGCTCAACGGCTCAACC **TACTA**CTGGGCTGCTTC **TA**
ATGCAGGAGTCGCA **TA**AGGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCGGTGGGCGGGGCATGAC **TAT**CGTCGCCGCACT **TAT**GACTGTCTTCTTT
ATCATGCAACTCG **TAG**GACAGGTGCCGGCAGCGCTCTGGGTCAATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTGCGG **TAT**TCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCAT **T**
ATCGCCGGCATGGCGGCCGACGCGCTGGGC **TAC**GTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCTTCCCCAT **TAT**GATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGGTTG
CAGGCCATGCTGTCCAGGCAGG **TAG**ATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCT **TACC**AGCC **TAA**CTTCGATCACTGGACCGCTGATCGTCACGGCGATTT **TAT**GCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTG **TAG**GGCGCCGCC **TATA**CCTTGTC
TGCCTCCCCGCGTTGCGTCCGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCC
GGCGCACCTCGC **TAA**

AAAAGA **TAG**ACAGTGTGAT **TAAA**AGACTGGACGACAT **TAAA**ATTTTG **TAT**CTGACACCCG
AACGGGTGGTGTGTCGAACCAACTGATGGACGCGC **TAG**GCAACTCGGGTCTGTCGAA **TAG**
TGA **TAG**ACGAGGCACACTGTGTCTGTGAGTGGGGGCACGATTT **TAG**ATCCGAC **TACC** **TAA**
AACTCTCCGTCCTTCGAAC **TAT**TTTCCCGAGCGTGCCGA **TACT**GGCTTGACCCGCGACGG
CGACCCCGCGCGTGCAGGGAT **TAT**CGTTTCGCTTGCTCGGCCTTCGCGAAAACCTTCGAGA
CGTTCGTCGGTTCGTTTCGACAGACCCAATC **TAAAA**ATCAGCGTT **TAC**AAAAAGACTCCTC
GTCACACACTGACCGTGGTGGACCTCGTGAAGGCGAGAGCCGGCTCTTCGATCG **TATA**TT
GTCTTTCGAGACGCGAAACCGAGGCGGTGCG **TAC**CGCTTTGAAATGCGCCGGATTT **TAG**CG
CGGAGCG **TAT**CACGCGCAATGACTCCCAAGAACCGCACTTCCGTGCAGAACAGATGGA
TGGCGAACGAGACCCGAGTGAT **TAT**GTTCGACGA **TAG**CGTTCGGGATGGGCATCGATA **TA**AC
CCGACGTGCGGTTGGTGA **TAC**ATCACAG **TAT**GCCCAAATCACTGGACGGT **TAT** **TAT**CAAG
AGA **TAG**GAAAGGGCCGGTTCGCGACGGAAAACCTGTCGGAGTG **TAT**CGCCTTT **TAC**GGCGCCA
ACGACGTCTCGAGA **TAC**AAA **TAT**CTTTTCAGGATCAGCCAGAGCGACAATCCAGGAACA
ATAAGATGCTGTCCACAATG **TAC**ACGTTCTG **TAC**CAACACCTCCATTTGTGCGACAGCTC
AAA **TAT**TTGCGG **TACT**TCGACGAGACGGTGGGCGACAGGGTCT **TAT**GCGATTCTG **TAA**ATT
CTTGCGACAACTG **TAA**ATTT **TAT**TTTGGTTTCT **TAC**GCGCGCGCGT **TAG**AAATCACATGT
ATGAA **TAT**TTCTGGCTGTCCGCCCA **TAC**GCTCTTGTCGTTGACATTGACGAC **TAT**CATGT
CGGGGAGTTCTCTGACGA **TAAAA**ACCA **TA**AGCGGTTTC **TAC**GTA **TACT**G **TAC**GGCACTT
C **TAC**GACTTCGCCCGACGACGTCGCCACCAGAACCTTGTCGCTGTG **TAG**AACATGAGCG
AATTGGCCCC **TAG**ATTT **TAT**TTCTTT **TAC**CGAGAAGATCAAATTCGGCCACGAGCGGCCCTC
TGAAATCGTTTCTCATCATG **TAT**TGGACGTCCGTCACGACGAGATCCGGGGAATTC

Tet-6 (52.9% GC)

ATGAAATCTAACAAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTAGGC
ATAGGCTTGGTTATGCCGGTACTGCCGGGCCTCTTGCGGGATATCGTCCATTCCGACAGC
ATCGCCAGTCACTATGGCGTGCTGTAGCGCTATATGCGTTGATGCAATTTCTATGCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTTCGC
CTTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGTCCTGTGGATCCTCTAC
GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCCATATC
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTC
GGCGTGGGTATGGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTG
GCACCATTCCTTGCGGCGGGCGGTGCTCAACGGCTCAACCTACTACTGGGCTGCTTCTA
ATGCAGGAGTCGCA TAAGGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGACTATCGTCGCCGCACTTATGACTGTCTTCTTT
ATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTCTGGGTCAATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTGGGTATTCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCAT
ATCGCCGGCATGGCGGCCGACGCGCTGGGCACGTCCTTGTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCATATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGGTTG
CAGGCCATGCTGTCCAGGCAGGTAGATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCTTACCAGCTAACTTCGATCACTGGACCGCTGATCGTCACGGCGATTTATGCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGGCGCCGCCATATACTTGT
TGCTCCCCCGGTTGCGTCCGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCC
GGCGCACCTCGCTAA
TGTCACCGAATCGTATATTGGTTATAGACATGGCGCCTTCCGTGATAACTGACACACACA
CACACACACACAATCTATTGTCAACCATCAATTCCTTTTGATCGACACATCGGGGTCA
GTTGGTTTTTTTGCTTTTTTAGTGTGATAATTTGATTTTTTACTACGATACAGTGGGTCG
TGAAAAGGGACTTTTGATTAATCAACGAGCACTCGCACACCCCATCGAACGATTTT
ATCGGACGGAACGTGTTGTGACGGCGGTGAATATCTACTTGTGACACGTTTACAAAGTT
AACTTTAAAGTGCAAACGATACGTAAACGCATCGAAGATCCTGCTCCAAACGACCCTGCG
CAACTACATCGAAAAGAACGTGAAACAGGTGCGCTGCTACTTTGTGCTGGTGTCAACGA
CGGTAAACGACGGCCACAACA TACTCACAACCCCGGAAC TACTCATTGTCCCAGCTGTAT
GCATTGTTACGTTGTACAGGGTGCGCGCGATACCGAAAGTGTTTCTCATACAATCGTGT
TTGGGTGCTAAGATAGATCCAGTCATTGCGATCGAGCGTCGTGTCAATGTGACCAAGAA
GAAGACGCGCATCCCACGTCCGTGTGTCACGACATCTTCGTCAACACAGTTTCGTGCTGTG
ATACACGCATGCAGTCGAAAATCTAAGGGGTGACACAAACTACCGAAACTAAATGTTGG
GATGTGGCGAGAGGGGTTCTCACATGACGGCACAGGGAAGAAATATCATAGTTTATTTG
CGTATGGAAGGGTATGTGAGGTAGGGTGACACAAAGTGTGGGTGTTTGATGATTGAGAAA
TTTTGAAAAATCTCATAAAATAGGGTACTAGAAAGGAGGTACACACAAGGATAAGGATG
GTACAAAAGGAAATGCAAATCAGGGATCCAAAATATGTACCAATTGTGGAAATGAATGT
ACAAAATGTTATTTCTGGGGGAGGAGAACTATAATAATGGAAGAGTATTAGATTTGG
GTTGGGGTGGGGTGGTCTGTTTGTGAAA TAAAAGTCTGGGCTTTTACTGCTAAAATTTA
TTGAAATGGATTTCGAAAGAAAGGAATTCA

Tet-46 (56.2% GC)

ATGAAATCTAACAAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTAGGC
ATAGGCTTGGTTATGCCGGTACTGCCGGGCCTCTTGCGGGATATCGTCCATTCCGACAGC
ATCGCCAGTCACTATGGCGTGCTGTAGCGCTATATGCGTTGATGCAATTTCTATGCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTTCGC
CTTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGTCCTGTGGATCCTCTAC
GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCCATATC
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTC
GGCGTGGGTATGGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTG
GCACCATTCCTTGCGGCGGGCGGTGCTCAACGGCTCAACCTACTACTGGGCTGCTTCTA
ATGCAGGAGTCGCA TAAGGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGACTATCGTCGCCGCACTTATGACTGTCTTCTTT

ATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTCTGGGTCAATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTTCGGTATTTCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCC GCCACCAAACGTTTCGGCGAGAAGCAGGCCATT
ATCGCCGGCATGGCGGCCGACGCGCTGGGCACGTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCATTATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG
CAGGCCATGCTGTCCAGGCAGGTAGATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCTTACCAGCCTAACTTCGATCACTGGACCCTGATCGTCACGGCGATTATGCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGGCGCCGCCATATACCTTGT
TGCTCCCCGCGTTGCGTGCGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCC
GGCGGCACCTCGCTAA
AAGGACAATCCC GGCTGTGCACAAGTCGACAACATGTACTACATAACAACAGCTGGTCAAC
CCTCTCACTAAGTTTCCGAAGCGGTGTGGCGCCGAGTAACAGCGTTAACATTGCCATC
GCGCCGTTTCATCTATTACAATAAGTTT TAGCTCAATTGTCAACTAGGTTTAAGATTTG
CAATAAACACAATGGGTACAAAACAAAATTTGTTTTATTTTCATTTTCTCAAATACACG
ATTCGATCCACCAGGTTTCTCGGTATATTTCCTAGAAGTCCACATGCGATCCGCACATG
ATGTAGGTCGCATCTCGTCGAACCGTTGCGCCGACAATCTATTCATCTGTACGTGCATCA
ATGTGATGAAGTCATCGAGACACTGTGCAAAATCAACGGGGCAGCTGCCGACGATGCGGT
CCGTCAACGTGCCGACAATCGTGCACCTGTGACGCTCAAGTCATCGACGTAGTGTCTAAC
GGTAGCGGCCAGCAGTTCACGATCTCGTCCGAGTGTGGGCGTGTGATACCGTGGTCCGT
CTCAGCGGTACACGAGCGGTGTGATACGACGATTTGTCGTTCCCTGATCGTCCGTTCCAGG
ATTCCTCGAGTGAGTCTTGTGTATTTTCATGGTAGTTACGTAGATATGCACCCTCGGTGGGA
TCGATGACGCTAGTCAAACGCATGGTGGATGGGTAGAGACACGGCCACCGAATGGTGATC
ACGCACACCGCCTATGGTTGCATTATTCCGTAAAGTGCCGGGTACTCGTGCCAATCAACT
CGGCACACACCCACACCGACAGATGTTTTCGAAGTCGCTACTGCGCAAGCCTTC TAGCGCA
GCGTGTAATAAGTTATGGAATTGGAATGTAATGCGTTCACGGGCCGCTGTTGCTCGATC
AAGTCGATCAGCTCGTCCACCAGTTGCAGTCGATATCTTCTCGGGTCCGATGTCTGTAGC
CAAGTCGATGAAATCGTGCCTGGTACGTGCGGAAATGCTTCCCCTCCAATCTATGGTG
CCGTATTCGAAAACACACCTACACTTGCCGATACAC

Tet-108 (50.1% GC)

ATGAAATCTACAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTAGGC
ATAGGCTTGGTTATGCCGGTACTGCCGGGCTCTTTCGGGATATCGTCCATTCCGACAGC
ATCGCCAGTCATATGGCGTGCTGTAGCGCTATATGCGTTGATGCAATTTCTATGCGCA
CCCGTTCTCGGAGCACTGTCCGACCCTTTGGCCGCCGCCAGTCCCTGCTCGCTTCGC
CTTTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGTCCTGTGGATCCTC
TACGCCGACGCATCGTGGCCGGCATCACCGCGCCACAGGTGCGGTTGCTGGCGCC
TATATCGCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGT
TTGCGGTGGGTATGGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTGCAT
GCACCATTCTTGCGGCGGGCGGTGCTCAACGGCTCAACCTACTACTGGGCTGCTTCC
TATGTCAGGAGTCGCAAGAGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGACTATCGTTCGCCGACTATGACTGTCTTCTTT
ATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTCTGGGTCAATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTTCGGTATTTCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCC GCCACCAAACGTTTCGGCGAGAAGCAGGCCATT
ATCGCCGGCATGGCGGCCGACGCGCTGGGCACGTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCATTATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG
CAGGCCATGCTGTCCAGGCAGGTAGATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCTTACCAGCCTAACTTCGATCACTGGACCCTGATCGTCACGGCGATTATGCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGGCGCCGCCATATACCTTGT
TGCTCCCCGCGTTGCGTGCGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCC
GGCGGCACCTCGCTAA
TGGAGCGTTACCGTTTATGCCAATCGCAATGTGCACAACATACATGGGAAGAAAAAGTAT
TCTTGAAGTTGTAGAACACGTGAAAGATTATGGAGGAACAGTGGTGTACGGGGACACGGA
CTGCCTTTGTGCAACCACTCCTGTTTAAATTCGAAAAGACGACAGCGATGTTTTTTTAC

AACTGTGGATGAGT**TAAGT**AAAAATGACTGGGAG**TACATA**AAATCCCAACAAAGACATCTC
GTCCCCAAAGAAAAT**TACGAAA**TATGGAGTGACACAGGATT**TACAAAGATCGAAAATGT**
TG**TAAGATGT**AAAA**TAGACGAGCCCC**TAAACCGT**TAAC**TACACATGTGGGCTCTG**TAAT**
TTGTTCCGACAACCACTCCT**TA**CTCACC**GAAAA**TTTGACAGGTG**TAAC**ACCAAATGATGT
TGT**TATAGGGG**TAGATTGTGTG**TAAGAGA**ACTTCCGT**TACAACA**AGAT**TACACCACA**AGT
TCCAA**TATATATA**AA**TAGACT**TACCGCAGAGAGGATCCAAATG**TATGAAAT**CCCAGAAGT
TTCT**TACC**TAAACGTGTCTGCCAAAATGGCTTTTGT**TATGGGGAT**TATTTTTTGGCGACGG
TGGTGCCGG**TATT**TACAAACAAAGCAAATC**TAATTGTTTGTCTAATTT**CACATGGGC**TAT**
CA**TAAGCTCTGT**CACGT**TATGAAAT**GGGAGGATCATGTGT**TAATTT**CACATGGGC**TAT**
AAATCATCGAAAAAAGAAT**TAACAGTCAAAA**TAGACGAATTGAAAAGAAAGAT**TAAGG**
ATGAAAAGGACAGGGG**TAGGAAGGA**TAAGT**TA**AAAA**TAGACT**TGGCGTCT**TAACAAAAG**
AAAGGTC**TAACATA**ACAAAAAAACT**TAGTAA**AAAGTGT**TATGTGTGCTAA**AAAGAAGT**TATA**
GATTTT**TAA**AAAGAGCCTCGAGGAGTTCTTCCGACAATCA**TAAAGGATCTTCT**GGACGCCA
GAAAAACACTCGTGC**GAAA**TA**AAAA**TATGGCAAAA**TAAACT**TAAATCAGCAGGTGGTCT
TTGAAGAACAAGAAATCGCAAAATCAATGATCCAAAT**TCTGGACCAAAGACAAAATTCGT**
ACAAAGTCAGTGC**TA**ACTCAATG**TATGGAGCAACCGGTGT**TAG

Tet-116 (53.2% GC)

ATGAAATCTACAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTG**TAGGC**
A**TAGGCTTGGT**TATGCCGG**TACT**GCCGGGCCTCTTGCGGGG**TATCGTCCAT**TCCGACAGC
ATCGCCAGTCAC**TATGGCGT**GCTGC**TAGCGCTATAT**GCCTTGATGCAATTT**CTAT**GC
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCTTGCTCGCTTCGC**TA**
CTTGGAGCCAC**TATCGAC**TACGCGATCATGGCGACCACACCCGTCCTGTGGATCCT**CTAC**
GCCGGACGCATCGTGGCCGGCATCACCGCGCCACAGGTGCGGTTGCTGGCGCC**TATATC**
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGT**TTT**
GGCGTGGG**TATGGT**GGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTG**CAT**
GCACCATTCC**TTGCGGCGGCGGTGCTCAACGGCCTCAACC**TACTACTGGGCTGCTTCC**TA**
ATGCAGGAGTCGCA**TAAGGGAGAGCGT**CGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGAC**TATCGT**CGCCGCACT**TATGACTGTCTTCTTT**
ATCATGCAACTCG**TAGGACAGGTGCCGGCAGCGCTCTGGGT**CATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGT**CGCTT**CGGG**TATTCGGAATCTTGCACGCC**
CTCGCTCAAGCCTT**CGTCACTGGTCCC**GCCACCAACGTTTCGGCGAGAAGCAGGCCAT**T**
ATCGCCGGCATGGCGGCCGACGCGCTGGG**CTAC**GTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCAT**TATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG**
CAGGCCATGCTGTCCAGG**CAGGTAGATGACGACCATCAGGGACAGCTTCAAGGATCGCTC**
GCGGCTCT**TACCAGCC**TAACTTCGATCACTGGACCGCTGATCGT**CACGCGGATTTAT**GCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTG**TAGGCGCCGCC**TATACCTTGT**C**
TGCTCCCGCGTTCGCTCGCGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCC
GGCGGCACCTCG**CTAA**

GCGGAGATTT**TATA**AGCGAGCTGTGACT**TATCGAGTATA**TCTCGAGC**WGAGGATCGTAAC**
TTCTTCAATTCAGCTCG**TACCTT**CCTGCGAGCGT**CTAAGAAGTATTCAACCAATCTGGTA**
GTGTCTCATGCGAGTTTT**CAGTATAC**GAACTCGTTGTTTTGCGCACAGT**CTAGAACCACC**
AGACATTCTT**GACTTAG**CACTTTCAATCGGATGGCGGCCCGCTG**TAAATCAACCGACGA**
CAGCTTGATTGATGG**TATCGGAGA**ACCGTTG**TAAATAT**CATCGG**TAAAACCATTACATTC**
CGAG**TAA**ATCTTCAACGT**CGTCAACTGGCTTAC**CGGTTG**TACTTGT**CGGCTTGAAG**TACTT**
TG**TAA**TCGGCTGAACCCCGATGCATTTTCGCTTCTCGACTTTT**GTAGATCTTCGAA**TAT
TGACTT**TAGTTTTT**CGCGCTCTTT**TATGTTTTGGATCGT**GCTCGCAACCAACGTGATCCTC
CCAT**TACA**ATTTCAAAGTTTTCGT**CGGTG**TAGTCACTGTGTGCATCGT**CGTCGATGAC**
CG**TACTGTAG**CAGAGAT**TATA**AGCCATCATCAACGT**CGGATATA**TCCGACGTTGATGATG
GT**TATA**ATCTCTGC**TACAGTAC**GGT**CATCGACGACGATGCACACAGTGACTACACC**GACG
AAAATTTGAAATTG**TAGAAT**GGGAGGATCACGTTGGTTGCGAGCACGATCCAAACA**TAA**
AAGAGCGCGAAAAAC**TAAAGTCAA**TATTCGAAGAT**CTAG**CAAAAGT**CGAGAAGCGAAAAT**
GCATCGGGGTT**CAGCCGATTACAAAGTACTT**CAAGCCGACAAG**TACAACGCGTAAGCAGT**
TGACGACGTTGAAGAT**TACTCGGAATGTAATGTTTTACCGATGATAATTACAACGGTTCT**

CCGATACCATCAATCAAGCTGTCGTCGGTTGATTTACAGCGGGCCGCCATCCGATTGAAA
GTGCTAAAGTCAAGAATGTCTGGTGGTTCTAGACTGTGCGCAAACAACGAGTTCGTATA
CTGAAAACCTCGCAGAGGACTACTACCAGATTTGGTTGAAACTTCTTAGACGCTCGCAGG
AAGGTACGAGCTGAAATGAAGAACGTAGCGATCCTCTAGCTCGAGATATACTCGATAAG
T

Tet-193 (59.1% GC)

ATGAAATCTAACAAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTAGGC
ATAGGCTTGGTTATGCCGGTACTGCCGGGCCTCTTGCGGGATATCGTCCATTCCGACAGC
ATCGCCAGTCACTATGGCGTGCTGTAGCGCTATATGCGTTGATGCAATTTCTATGCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCTTGCTCGCTTCGC
CTTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGTCCTGTGGATCCTCTAC
GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCCATATC
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTC
GGCGTGGGTATGGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTGCAT
GCACCATTCTTTCGCGCGGCGGTGCTCAACGGCCTCAACCCTACTACTGGGCTGCTTCC
ATGCAGGAGTCGCAAAAGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGACTATCGTCGCCGCACTATGACTGTCTTCTTT
ATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTCTGGGTCAATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTTCGGTATTCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCAT
ATCGCCGGCATGGCGGCCGACGCGCTGGGCACGTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCATATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG
CAGGCCATGCTGTCCAGGCAGGTAGATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCTTACCAGCCTAACTTCGATCACTGGACCGCTGATCGTCACGGCGATTATGCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGCGCCGCCCTATACCTTGT
TGCTCCCCCGCTTTCGTCGCGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCC
GGCGGCACCTCGCTAA

ACATCGAACACGCCAAGGCGATCGCCGATGAACAAGCGGCTCGTGCCCTTGACGTTGCG
ATGTACAGTAACTGGTTCGAAACAAACGCACCGACTCGAGCCACCATGGACATCGAAGCG
ATACGCGGACGTTACACCGTCTCCGTACCGGAGAGCATGGAACGTCCGATGGTGATTCTG
TTCAACGACTTGACAATCTCCGAGGATTTGGTGGTGTTCGCGACGCACGGTGAGTTGATC
AAGTACGACACTCGATAACCGCCGTCGTCGGACGCAGCGCTGGCCGCCATGAGCAGTCGT
CGCGCCAGGAAGGGTGGCGAACGAGACAAACGCATCTCGTTGTACATGGTGCAGCGCGT
ATCTACTCGCCGGGCATGAACACGACAAGCGCACGTACACCAGACTCCCGCGTGGGC
TACGTGATCACGGTGATCAGTAATAACGCGCCACCGTCGACGTGCCTCGAAGTCTAGTC
ACCGCACTCGGCATGGCGGGTGACGACGATCAGGTGGTGGTGGAGCGATGTCGGCGGCGGT
GTTACATACACCGCGTTCGTTCCGTTAAACGACATCACGTTTCGTCACAGTACCTGCAACA
TTACACGTTGCTCAAGTGTACCGACAAGGCGACGTGTATATTCGTCGACGAAACGCATCT
GATGAAGTACGCGCGCCCTTGGCGTCGATACACAATCGCCAGTCCCGGATTCATATACGA
GTACAAATAATTTACGGTGAAGTTTAGCGCGACCGTGGAGAGCACGCGCAGGGACGTGGC
TCGAGTGTGCCCCATTGCGGTATCCGTATCTACGATGCGCCCAACACGCAGATCATGTA
CGGCATGGCGAACGACATAACCGCACACATGATCGAGTACAAGAGTAGGGAGCGTTTCGAT
CCCGTCTCTGTACGCCGAGAATCTACACAACGATCAGCTGTTGCGGATCAACGTGCGCAT
AATGCGTGACTCGAAACCGTTAAACGCGAACCCGGCTACCTGGCTCGGCAACACCGACAG
GTCCGTAGAAAACCTGCAAGCGCAAAGACCGGCACCAACGCAGACGTACGCTCCCTGATC
GGTGTCAACAACACGCCAGACAATGTGCACGCCTACCTACAGCCGT

Tet-240 (54.5% GC)

ATGAAATCTAACAAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTAGGC
ATAGGCTTGGTTATGCCGGTACTGCCGGGCCTCTTGCGGGATATCGTCCATTCCGACAGC
ATCGCCAGTCACTATGGCGTGCTGTAGCGCTATATGCGTTGATGCAATTTCTATGCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCTTGCTCGCTTCGC
CTTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGTCCTGTGGATCCTCTAC

GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCC**TATA**TC
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTC
GGCGTGGG**TAT**GGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTGCAT
GCACCATTCTTGCGGCGGGTGCTCAACGGCCTCAACC**TACTACT**GGGCTGCTTCC**TA**
ATGCAGGAGTCGCA**TA**AGGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGAC**TAT**CGTCGCCGCACT**TAT**GACTGTCTTCTTT
ATCATGCAACTCG**TAG**GACAGGTGCCGGCAGCGCTCTGGGTCATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTGC**GGTAT**TCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCAT**T**
ATCGCCGGCATGGCGGCCGACGCGCTGGGC**TAC**GTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCAT**TAT**GATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG
CAGGCCATGCTGTCCAGGCAGG**TAG**ATGACGACCATCAGGGACAGCTTCAAGGATCGCTC
GCGGCTCT**TACC**AGCC**TA**ACTTCGATCACTGGACCCTGATCGTCACGGCGATT**TAT**GCC
GCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTG**TAG**GCGCCGCC**TATA**CCTTGT
TGCTCCCCCGCTTGCCTGCGGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCC
GGCGGCACCTCGC**TAA**

TCGCCGTTGCTGTGCGC**TACT**GTGCGGCCTTGTGATGCTGTTGTTTCTCGATCGAGTG
GTTGGTGAAGTGC**TAT**CGGCAATTTTCGTGAACTTTTCAAATCTTCCACACCCTCCGT
CAACGTTCTCCACG**TACC**CGGTTGGCCGTTGAATCGTCGGAACAGAGCCAGGGCGGCGAA
CAATGCCGCGATCGC**TAT**GATCGTG**TACT**TGTTGCTGAACACCGATTCCGGCGTCGTTTCA
AGCCCTCTTCCAAGCCAACCAAGCACCCATCAATGC**TAC**GGACACGA**TA**AGCACATGCTT
AATTTCCATT**TACC**CAGTCGAAACAGCGAAGGACGG**TAC**CGGA**TAC**AAAGAAA**TAA**AAG
ACACATTTT**TAG**AT**TA**ACCATT**TAT**TGACACACAGTGT**TACC**CAAAAGATCGCA**TA**ACC
GTCGACGTCACCATCACGTTTGGGACAG**TACT**G**TAG**GAATCGCACATCGACCGC**TATA**CT
GTT**CGTAC**AG**TAC**AGGAAGGCAAACG**TAA**AGTCCACAAACGACCTCGGAGAGTTGACTGC
AAAAA**TA**ACACCATCTGGTTCCG**TAA**ATGCCAGAGAGATTCACTCGCCGCTCCGGT**TAT**
GTCGCGCAATTGCACCAGGTTGGATCGTGAAAT**TGTA**AG**TAT**GTTTTGTTGAAACGTTT
CAT**TAT**CACCGTCG**TATA**GT**TACC**CAGGTGCACCTCGGATCTTTGCACTGACCACTCGACG
AATCACACCGGTGCGTGATCTTCGCAACAGACAA**TAT**TCATCACCCG**TACT**GGGATC**TAT**
GAAGACGTCGA**TA**TGTGCGAG**TAA**AGT**TAT**GCGTGTCG**TAT**GCACAACCCAGCGAAGG
TCTGGAGA**TA**ATCGAACGCATCATCTTCTCACCACCACAATGACCGATGAACGA**TA**
ATACCAATCGTCG**TACT**GCATCTCGCGAT**TA**ACTGTCTCGCCGTT**TAATA**CATTTTCA
TT**TATAT**GTTTT**TAT**GCTG**TA**ACAC**TA**ATGTG**TAT**GT**TAC**ACGCGAACAGAAACGTGACT
TCTTGA**ACTGCG**ACCGGTGCGT**CGAG**CGAGCGATCAATCG**TA**ACGTTGACTG**TATT**G**TAT**
TATTGTGAAAC**TAC**ACTGTCTCGAATGTTTTG**TAT**CTGTCCACCGTCGACGA

Tet-289 (53.3% GC)

ATGAAATC**TA**ACAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTG**TAG**GC
ATAGGCTTGGT**TAT**GCCGG**TACT**GCCGGGCTCTTGCGGGA**TAT**CGTCCATTCCGACAGC
ATCGCCAGTCAC**TAT**GGCGTGCTGC**TAG**CGC**TATA**TGCGTTGATGCAATTT**TAT**GCGCA
CCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTT**CGTAC**
CTTGGAGCCAC**TAT**CGAC**TAC**CGGATCATGGCGACCACACCCGTCCTGTGGATCCTC**TAC**
GCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCC**TATA**TC
GCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTGTTC
GGCGTGGG**TAT**GGTGGCAGGCCCGTGGCCGGGGACTGTTGGGCGCCATCTCCTTGCAT
GCACCATTCTTGCGGCGGGTGCTCAACGGCCTCAACC**TACTACT**GGGCTGCTTCC**TA**
ATGCAGGAGTCGCA**TA**AGGGAGAGCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTC
AGCTCCTTCCGGTGGGCGCGGGGCATGAC**TAT**CGTCGCCGCACT**TAT**GACTGTCTTCTTT
ATCATGCAACTCG**TAG**GACAGGTGCCGGCAGCGCTCTGGGTCATTTTCGGCGAGGACCGC
TTTCGCTGGAGCGCGACGATGATCGGCCTGTGCTTGC**GGTAT**TCGGAATCTTGCACGCC
CTCGCTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCAT**T**
ATCGCCGGCATGGCGGCCGACGCGCTGGGC**TAC**GTCTTGCTGGCGTTCGCGACGCGAGGC
TGGATGGCCTTCCCCAT**TAT**GATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTG
CAGGCCATGCTGTCCAGGCAGG**TAG**ATGACGACCATCAGGGACAGCTTCAAGGATCGCTC

GCGAAGTGGTATCAACGACTAAATCGATGGCGGTGGAAATTAACAATTCAC TAATT TAA
CAACATTTATTCATAAACTTAGGAATGTAATAACAAAACAAGACATCTTAGACCTAGAGA
CGGGCGTTATAAATTTCA TACTAGACTTGTCCGTACACCTGGCGGT TACCGTTCATAAAC
GTTGGCCGATGTTAGTGTACGCGGCGGCCGCATGTACCGCCCTTG TAGCTACCATAATCA
TCATCTTGACTATA TCGATATGCGTGCTGTCGTGTCGACTACGAAGATTCGACGATGCCA
TCAAGGACACGGTTGAATGATGCGAGTACGTCTTCGCGTGGCAAGTTTCCGTTCAACACG
AAAAC TGAAC TATGGTTGTCGACGTATCGTTTTCGTG TAGCATTTCGACTCTTTCGAAA TAC
TCGACGTCCAATGATTTCTCCGCTCGCGTCCTCGTTCTGAGCTCGGCGGTGACAGGTG
TCCGGTTTCGTGTCAATGTACACGACGTGGTCGATTCTCGGAATGTCATTCTCCAAACTG
CGAAACACATCCGTGTACACGTCGAATTGTTTGTCCGGTGATCGAGCCTCGGTCTCGCATC
ATTCTGGTGAAGACGTCTGTACGCCGACCACGGCGAGCGTTCCATGATAACGACTCGAGCT
CCGGTTCGCAGACATGTCTGTACGAGTCCAACCACTTTTGATAATTACTCGTCAGCACT
TGCAGCTCGAAGGGGAAAGCGTATC