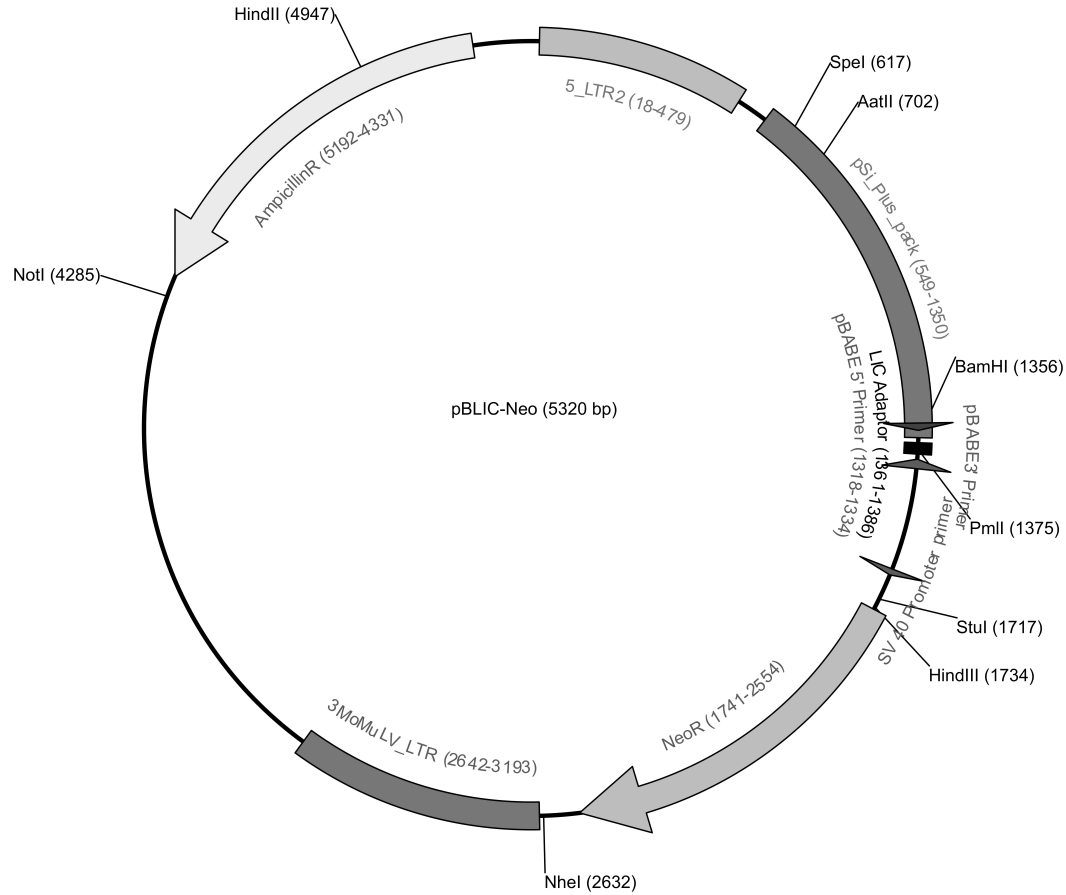


Supplementary Figure Legends

Figure S1. Map of pBLIC-neo. The LIC adaptor is annotated at bases 1361-1386 with the sequencing primers used to verify insertion noted within the diagram. The BamHI and PmlI sites are also noted. The actual sequence around the LIC adaptor site is shown below the map, with key elements highlighted (see Figure 1 for additional details).

Figure S2. Sequencing verification of pBLIC.Bax, pBLIC.catalase and pBLIC.p53 constructs. Positive clones (screened by restriction digestion in Figure 3) were sequenced at the Oncogenomics Core facility, University of Miami, FL. The sequences presented here were analyzed using the BLAST algorithm at the NCBI website and found to be accurate. Start and stop codons are highlighted in red text. (A) Bax sequence. Please note that a single A -> G base mismatch (underlined) corresponds to a UCA to UCG silent codon mutation as both sequences encode for serine. (B) Catalase sequences. A small portion consisting of 74 bases was not covered by the catalase primer sets; however the presence of start and stop codons in conjunction with the RT-PCR and Western blot data presented in Figure 4 verify that the full cDNA was successfully cloned within pBLIC-neo. (C) p53 sequences.

Figure S1



CCTTCTCTAGGCGCCGGCC**GGATCC**GACACCATCT**CACGTG**GGAATGTGAGCTCGACCCTGTGGAATGTGTGTCAG
 GGAAGAGATCCGCGGCCGGC**CTAGG**CGTGTGGTAGA**GTGCAC**CTTACACTC**G**AGCTGGGACACCTTACACACAGTC

Red- BamHI site (1356)

Blue bold- G, termination point for T4 activity

Green bold - PmlI site (1375)

A.

Bax sequence 1

TCTCACGGCCACC**ATG**GACGGGTCCGGGGAGCAGCCCAGAGGCGGGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGG
GCCCTTTTGCTTCAGGGTTTCATCCAGGATCGAGCAGGGCGAATGGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCC
TCAGGATGCGTCCACCAAGAAGCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACTGGACAGTAACATGGAGCTGCAGAGG
ATGATTGCCGCCGTGGACACAGACTCCCCCGAGAGGTCTTTTCCGAGTGGCAGCTGACATGTTTTCTGACGGCAACTTCAAC
TGGGGCCGGGTGTGCGCCCTTTTCTACTTTGCCAGCAAAGTGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAAGTATCAGA
ACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGGTTGGGACGGCCTCCTC
TCCTACTTTGGGACGCCCACGTGGCAGACCGTGACCATCTTTGTGGCGGGAGTGCTCACCGCCTCGCTCACCATCTGGAAGAAG
ATGGGCT**G**A**C**GTGGAATGTGAGCTCGACCCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGC
AGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCA
AAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCCTAACTCCGCCCATCCCGCCCCCTAACTCCGCCCCAGT

B.

Catalase sequence 1

CCATCTCACGGCCACC**ATG**GCTGACAGCCGGGATCCCGCCAGCGACCAGATGCAGCACTGGAAGGAGCAGCGGGCCGC
 GCAGAAAGCTGATGTCCTGACCACTGGAGCTGGTAACCCAGTAGGAGACAACTTAATGTTATTACAGTAGGGCCCCGT
 GGGCCCCCTTCTTGTTTCAGGATGTGGTTTTCACTGATGAAATGGCTCATTTTGACCGAGAGAGAATTCCTGAGAGAGTTGT
 GCATGCTAAAGGAGCAGGGGCCTTTGGCTACTTTGAGGTCACACATGACATTACCAAATACTCCAAGGCAAAGGTATTTG
 AGCATATTGGAAAGAAGACTCCCATCGCAGTTCGGTTCTCCACTGTTGCTGGAGAATCGGGTTCAGCTGACACAGTTTCG
 GGACCCTCGTGGGTTTGCAGTGAAATTTACACAGAAGATGGTAACCTGGGATCTCGTTGGAAATAACACCCCCATTTTCT
 TCATCAGGGATCCCATATTGTTTCCATCTTTTATCCACAGCCAAAAGAGAAATCCTCAGACACATCTGAAGGATCCGGACA
 TGGTCTGGGACTTCTGGAGCCTACGTCCTGAGTCTCTGCATCAGGTTTCTTCTTGTTTCAGTGATCGGGGGATTCCAGATG
 GACATCGCCACATGAATGGATATGGATCACATACTTTCAAGCTGGTTAATGCAAATGGGGGAGGCAGTTTATTGCAAATTC
 CATTATAAGACTGACCAGGGCATCAAAAACCTTTCTGTTGAAGATGCGGCGAGACTTTCCCAGGAAGATCCTGACTATGG
 GCATCCGGGGATCTTTTAAACGCCATT

Catalase sequence 2

TCGTTCGAACCCCGCCTCGATCCTCCCTTTATCCCAGCCCTCACTCCTTCTCTAGGCGCCGGCCGGATCCGCACACCATCT
 CACGGCCACC**ATG**GCTGACAGCCGGGATCCCGCCAGCGACCAGATGCAGCACTGGAAGGAGCAGCGGGCCGCGCAGA
 AAGCTGATGTCCTGACCACTGGAGCTGGTAACCCAGTAGGAGACAACTTAATGTTATTACAGTAGGGCCCCGTGGGCC
 CCTTCTTGTTTCAGGATGTGGTTTTCACTGATGAAATGGCTCATTTTGACCGAGAGAGAATTCCTGAGAGAGTTGTGCATG
 CTAAAGGAGCAGGGGCCTTTGGCTACTTTGAGGTCACACATGACATTACCAAATACTCCAAGGCAAAGGTATTTGAGCAT
 ATTGGAAGAAGACTCCCATCGCAGTTCGGTTCTCCACTGTTGCTGGAGAATCGGGTTCAGCTGACACAGTTTCGGGACC
 CTCGTGGGTTTGCAGTGAAATTTACACAGAAGATGGTAACCTGGGATCTCGTTGGAAATAACACCCCCATTTTCTTCATCA
 GGGATCCCATATTGTTTCCATCTTTTATCCACAGCCAAAAGAGAAATCCTCAGACACATCTGAAGGATCCGGACATGGTCT
 GGGACTTCTGGAGCCTACGTCCTGAGTCTCTGCATCAGGTTTCTTCTTGTTTCAGTGATCGGGGGATTCCAGATGGACATC
 GCCACATGAATGGATATGGATCACATACTTTCAAGCTGGTTAATGCAAATGGGGAGGCAGTTTATTGCAAATTCCATTATA
 AGACTGACCAGGGCATCAAAAACCTTTCTGTTGAAGATGCGGCGAGACTTTCCCAGGAAGAT

Catalase sequence 3

TTAATCAGGCAGAACTTTCCATTAATCCATTTGATCTCACCAAGGTTTGGCCTCACAAGGACTACCCTCTCATCCCAGTT
 GGTAACCTGGTCTTAAACCGGAATCCAGTTAATTACTTTGCTGAGGTTGAACAGATAGCCTTCGACCCAAGCAACATGCC
 ACCTGGCATTGAGGCCAGTCCTGACAAAATGCTTCAGGGCCGCCTTTTTGCCTATCCTGACACTCACCGCCATCGCCTGG
 GACCCAATTATCTTCATATACCTGTGAACTGTCCCTACCGTGCTCGAGTGGCCAACTACCAGCGTGACGGCCCCGATGTGC
 ATGCAGGACAATCAGGGTGGTGCTCCAAATTACTACCCCAACAGCTTTGGTGCTCCGGAACAACAGCCTTCTGCCCTGG
 AGCACAGCATCCAATATTCTGGAGAAGTGCGGAGATTCAACACTGCCAATGATGATAACGTTACTCAGGTGCGGGCATTC
 TATGTGAACGTGCTGAATGAGGAACAGAGGAAACGTCTGTGTGAGAACATTGCCGGCCACCTGAAGGATGCACAAATTT
 TCATCCAGAAGAAAGCGGTCAAGAACTTCACTGAGGTCCACCCTGACTACGGGAGCCACATCCAGGCTCTTCTGGACAA
 GTACAATGCTGAGAAGCCTAAGAATGCGATTACACCTTTGTGCAGTCCGGATCTCACTTGGCGGCAAGGGAGAAGGCA
 AATCTGT**GA**GCC

C.

p53 sequence 1

CCATCTCACGGCCACC**ATG**GAGGAGCCGCGAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCA
GGAAACATTTTCAGACCTATGGAACTACTTCCTGAAAACAACGTTCTGTCCCCCTTGCCGTC
CCAAGCAATGGATGATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCC
AGGTCCAGATGAAGCTCCCAGAATGCCAGAGGGCTGCTCCCCCGTGCCCCCTGCACCAGCAG
CTCCTACACCGGCGGCCCTGCACCAGCCCCCTCCTGGCCCCCTGTCATCTTCTGTCCCTTCCCA
GAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCAATTCTGGGACAGCCAAGTC
TGTGACTTGACGTA CTCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCCCT
GTGCAGCTGTGGGTTGATTCCACACCCCCGCCCGCACCCGCGTCCGCGCCATGGCCATCTAC
AAGCAGTCACAGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGA
TAGCGATGGTCTGGCCCCCTCCTCAGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTA
TTTGATGACAGAAACACTTTTCGACATAGTGTGGTGGTGCCCTATGAGCCGCCTGAGGTTGG
CTCTGACTGTACCACCATCCACTACAACCTACATGTGTAACAGTTCCTGCATGGGCGGCATGAA
CCGGAGGCCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGAATCTACTGGGA

p53 sequence 2

TCTGGGCTTCTTGCAATTCTGGGACAGCCAAGTCTGTGACTTGACGTA CTCCCCTGCCCTCAAC
AAGATGTTTTGCCAACTGGCCAAGACCTGCCCTGTGCAGCTGTGGGTTGATTCCACACCCCC
GCCCGGCACCCGCGTCCGCGCCATGGCCATCTACAAGCAGTCACAGCACATGACGGAGGTTG
TGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCCTCCTCAGCATC
TTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATA
GTGTGGTGGTGCCCTATGAGCCGCCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAAC
ACATGTGTAACAGTTCCTGCATGGGCGGCATGAACCGGAGGCCCATCCTCACCATCATCACAC
TGGAAGACTCCAGTGGAATCTACTGGGACGGAACAGCTTTGAGGTGCGTGTTTGTGCCTGTC
CTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGAAAGGGGAGCCTCACCACGA
GCTGCCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCCAGCCAA
AGAAGAAACCACTGGATGGAGAATATTTACCCTTCAGATCCGTGGGCGTGAGCGCTTCGAG
ATGTTCCGAGAGCTGAATGAGGCCTTGGAACCTCAAGGATGCCAGGCTGGGAAGGAGCCAGG
GGGGAGCAGGGCTCACTCCAGCCACCTGAAGTCAAAAAGGGTCAGTCTACCTCCCGCCATA
AAAACTCATGTTCAAGACAGAAGGGCCTGACTCAGAC**TGA**CGTG