

Effect on DNA damage of two shRNA constructs for knockdown of EndoG and Bnip3

a

**EndoG** *Rattus norvegicus* NCBI Reference Sequence: NM\_001034938.1

AtgCGCGCTACGGGCCGGTTTGACCCTGGCGCTGGGCGCCGGCCTGGGCGCCGCGGCAGAGCATTGGCGGCGGCGA  
 GAGGGTAAAGGGCCGGGGCTGCTGGGCCGAGTGCCAGTGTTGCCGGTGTGCGCGCCGATCTTCCCGCGCTGCCGGG  
 GGACCGGCTGGCAGCACCGGAGAGTTGGCCAAGTACGGGCTGCCCGGCTGGCGCAGCTCCGGAGCCGCGAGTCCTAC  
 GTGCTGAGCTACGACCCGCGCACGCGCGGTGCGCTCTGGGTGTTGGAGCAGCTGAGGCCAGAGCGGCTCCGTGGCGAT  
 GGGGACCGTGCGCCTGCGACTTCCACGAGGACGATTCTGTGCACGCGTACCACCGCGCCACCAATGCGGACTACCGC  
 GGCAGTGGCTTTGACCGCGGCCACTTGGCGGCCCGCCAATCACCGCTGGAGTCAGCGGGCCATGGACGACACCTTC  
 TACCTGAGCAACGTAGCGCTCAGGTGCCACACCTCAACCAGCATGCCT**ggaacaaccttgagaagta**cagcc**g**  
**cagcttgactcgaactta**ccaaaacgtttatgtctgcacagggcctcttttctgcccaggaccgaggctgatgg  
 gaagtctatgtgaagtaccagggttattgggaagaaccacgtggcagtgcccacacacttcttcaagggtgttgatcct  
 ggaggcagccagtgggcaaatcgagctgCGTTCCTATGTGATGCCAATGCCCGGTGGATGAGACTCTCCCTTTGGA  
 GCGCTTCTAGTGCCCATCGAGAGCATCGAGCGGGCCTCGGGATTGCTCTTCGTGCCAATATCTGGCTCGAGCTGG  
 AAACCTCAAGGCCATCACTGCTGGTAGCAAGTGA

shRNA-1 shRNA-2

**Bnip3** *Rattus norvegicus* NCBI Reference sequence NM\_053420.3

Atgtcgcagagcggggaggagaacctgcagggctcctgggtagaactgcacttcagcaatgggaatgggagcagcgtt  
 ccagcttccgtctctatttataatgggtgacatggaaaaaataactgctggatgCGCAGCATGAATCTGGACGAAGCAGC  
 TCCAAGAGCTCTCACTGTGACAGCCACCTCGTCCAGACACCACAA**gataccaacagagctgaaata**gacac  
 ccacagctttgggtgagaaaaacagcactctgtctgaggaagattatattgagagaagaagagaagttgaaagtatcct  
 gaagaaaaactcagattggatatgggattggTCAAGTCGGCCAGAAAATGTTCCCCCAAGGAGTTCCTTTTAAACA  
 CCCGAAGCGCACAGCTACTCTCAGCATGA**gaaacacaagcgttatgaa**gaaaggggggtatTTTCTCAGCAGACT  
 TTCTGAAGGTTTTCTTCCATCTCTGTTACTGTCTCATCTGTTAGCCATTGGATTGGGGATCTACATTGGAAGGCGTC  
 TGACAACCTCCACTAG

shRNA-1 shRNA-2

b

