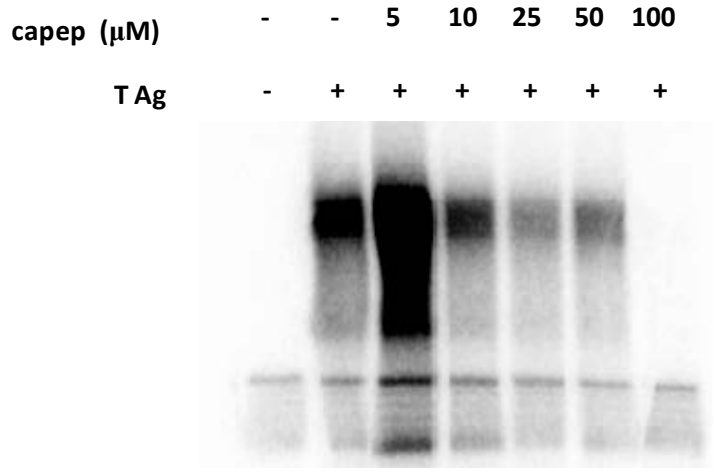
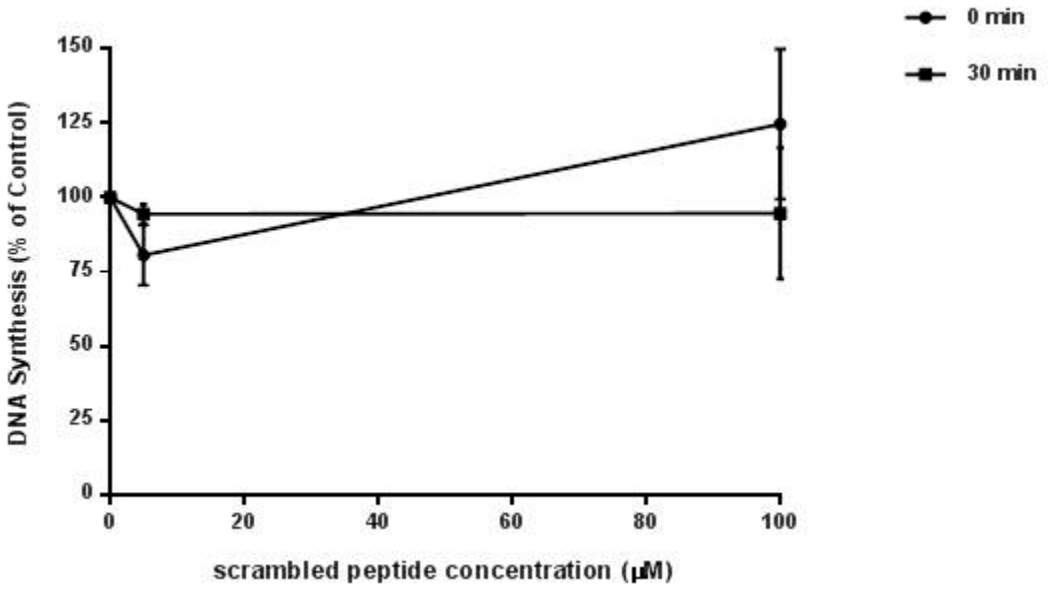
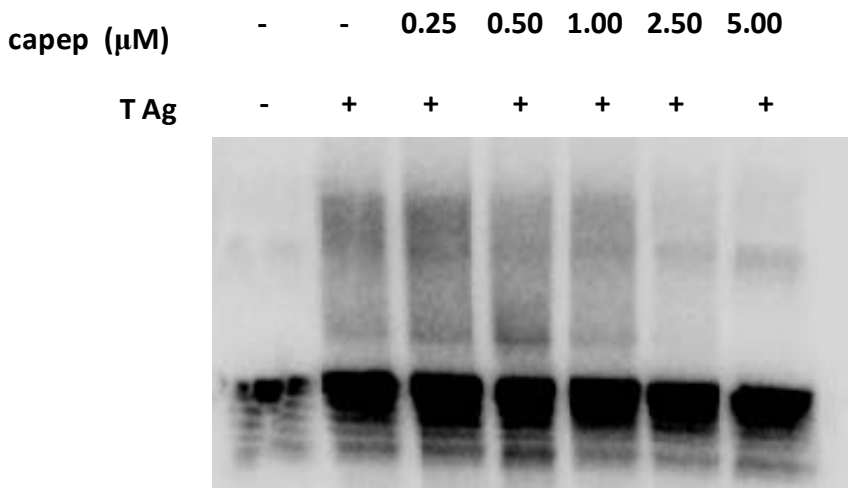
Supplemental Figures



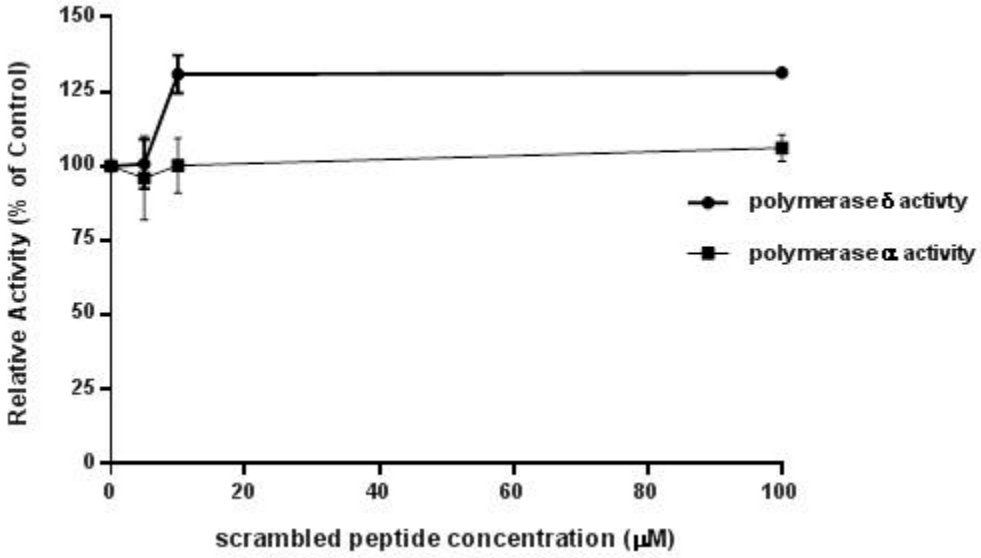
Supplemental Figure 1. Neutral agarose gel analysis of the replication intermediates produced from the *in vitro* SV40 replication assay in the presence of increasing concentrations of caPeptide.



Supplemental Figure 2. Effect of scrambled peptide treatment, either pre-incubated for 30 minutes or without pre-incubation. Products were analyzed as described previously in the Materials and Methods section. One unit of *in vitro* SV40 DNA synthesis activity is equivalent to 30 pmol of total radionucleotide incorporation per hour at 37^{o}C. % Control is based on the control reaction performed in the absence of scrambled peptide. Each point represents the average ± standard deviation of three to five experiments.



Supplemental Figure 3. Neutral agarose gel analysis of the replication intermediates produced from the *in vitro* SV40 replication assay following treatment with increasing concentrations of caPeptide after a 30 minute pre-incubation with HeLa nuclear extract.



Supplemental Figure 4. Effect of scrambled peptide on the synthesome-associated DNA polymerase α and polymerase δ activity. Prior to the assay, HeLa nuclear extract was pre-incubated for 30 minutes with increasing concentrations of scrambled peptide. Control reactions were performed in the absence of scrambled peptide. Each point represents the average ± standard deviation of three to five experiments.