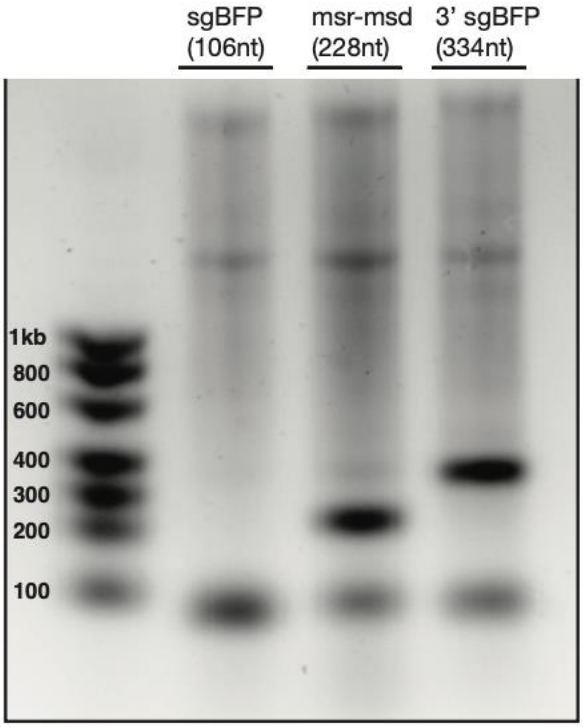
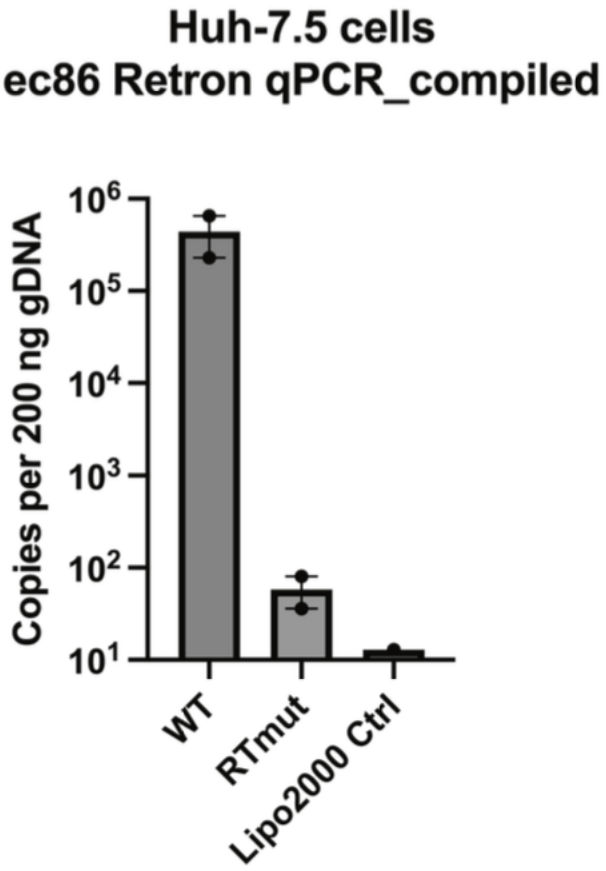
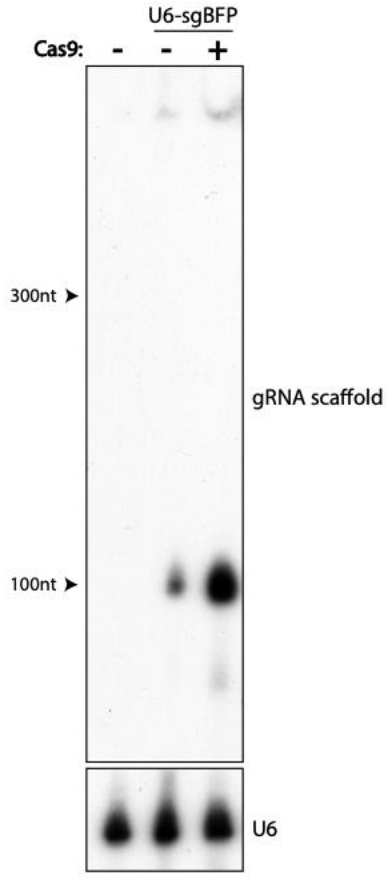


Supplemental Figure 1. Confirmation of IVT RNA products by agarose gel electrophoresis. Electrophoretic size separation in agarose gel of sgBFP, msr-msd with internal GFP template, and msr-msd-sgBFP ncRNAs. Each lane was loaded with 200ng of IVT RNA product.



Supplemental Figure 2. Validation of catalytically inactive Eco1 RTmut by qPCR quantification of retron RT-DNA. Electrophoretic size separation in agarose gel of sgBFP, msr-msd with internal GFP template, and msr-msd-sgBFP ncRNAs. Each lane was loaded with 200ng of IVT RNA product.



Supplemental Figure 3. sgRNA stability in the presence and absence of Cas9. Northern blot analysis of sgRNA from whole-cell lysates of HEK293T cells transfected with plasmids expressing sgBFP and either Cas9 or pUC19. ^{32}P radiolabeled ssDNA probes were designed to target the scaffold sequence of the sgRNA. Probe sequence is listed in Supplemental Table 1.