SUPPLEMENTARY FIGURES

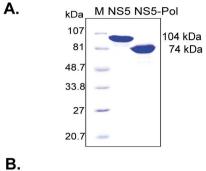
Figure S1: NS5 and NS5-Pol purity and stability. (A) 12 % SDS-PAGE gel presents recombinant purified NS5 and NS5-Pol proteins and molecular marker proteins (left lane M). The molecular mass of markers is given on the left. **(B)** T_m values of NS5 and NS5-Pol measured by thermo-fluor based assay described in Material and Methods. **C)** Guanidine hydrochloride concentration midpoints of NS5 and NS5-Pol denaturation determined as described in Materials and Methods. The experiments were done at least in triplicates.

Figure S2: Absence of stimulation by NS5-MTase when added as recombinant protein to NS5-Pol

De novo initiation reactions leading to pppAG formation in the absence and presence of increasing concentrations of NS5-MTase. Product formation was followed with time and analyzed using PAGE. The reactions were done as given in Materials and Methods with 500 μ M ATP, 100 μ M GTP, 10 μ M T₂₀ and 2 mM MnCl₂. NS5 and NS5-Pol were used without Histag. NS5-MTase concentrations are given below the gel.

Figure S3: Primer-dependent elongation activity of NS5, NS5 (TGGK), NS5-PoI and NS5-PoI (TGGK). Reactions were done and analyzed using PAGE as described in Materials and Methods. (A) in the presence of MgCl₂, 0.5 μ M protein, 10 μ M P₁₀/T₂₀, (B) in the presence of MnCl₂, 0.1 μ M protein, 10 μ M P₁₀/T₂₀.

Figure S1



protein	His-tag	T _m (°C)
NS5	+	38.0 ± 0.2
NS5	-	37.1 ± 0.1
NS5(TGGK)	+	37.7 ± 0.1
NS5-Pol	+	40.1 ± 0.2
NS5-Pol	-	40.1 ± 0.1
NS5-Pol(TGGK)	+	39.8 ± 0.0

41.6 ± 0.0

NS5-MTase

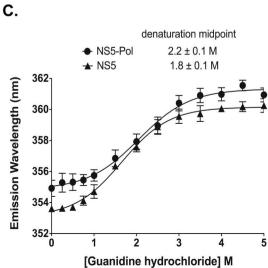


Figure S2

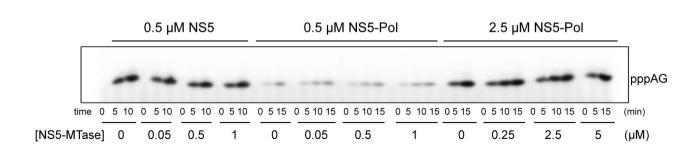
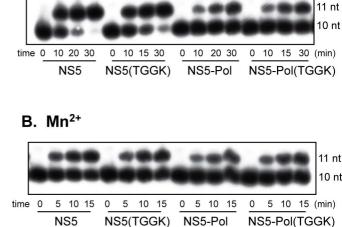


Figure S3



A. Mg²⁺