

Table S3
Plasmids and RNA Synthesis

Plasmid	Insert	RNA Product (Run-off transcription)
pCSPHAX (IMAGE 3199647)	AW766532 and AW767185	Plasmid digested with XhoI generates sense strand PHAX transcript from nt 2979 to 3655 using SP6 RNAP. Plasmid digested with Eco RI generates antisense strand PHAX from nt 2979 to 3655 using T7 RNAP.
pSPORTAn1FL	An1, complete	Plasmid digested with XhoI generates full length An1 transcript from nt 1 to 3011 using SP6 RNAP. Plasmid digested with Apa LI generates An1 Δ 3' transcript from nt 1 to 2423 using SP6 RNAP. Plasmid digested with HindIII generates An1 $\Delta\Delta$ 3' transcript from nt 1 – 1571 using SP6 RNAP.
pBSAn1PORF pBSAn1 Δ E1 pBSAn1 Δ E2 pBSAn1 Δ E3 pBSAn1 Δ E12 pBSAn1 Δ E13 pBSAn1 Δ E23 pBSAn1 Δ E123 pBSAn1 Δ VM1 pBSAn1 Δ VM2 pBSAn1 Δ VM3 pBSAn1 Δ VM12 pBSAn1 Δ VM13 pBSAn1 Δ VM23 pBSAn1 Δ VM123 pBSAn1 Δ VM1235	An1 (nt 1456-2836) 1 st E2 mutated 2 nd E2 mutated 3 rd E2 mutated 1 st & 2 nd E2 mutated 1 st & 3 rd E2 mutated 2 nd & 3 rd E2 mutated 1 st , 2 nd & 3 rd E2 mutated 1 st VM1 mutated 2 nd VM1 mutated 3 rd VM1 mutated 1 st & 2 nd VM1 mutated 1 st & 3 rd VM1 mutated 2 nd & 3 rd VM1 mutated 1 st , 2 nd & 3 rd VM1 mutated 1 st , 2 nd , 3 rd & 5 th VM1 mutated	Plasmid digested with XhoI generates WT or indicated mutant An1 transcript from nt 1456 to 2836 using T7 RNAP.
pSP70Vg1	Vg1, complete	Plasmid digested with Eco RI generates full length sense strand Vg1 using SP6 RNAP. Plasmid digested with HindIII generates full length antisense strand Vg1 using T7 RNAP.
pBSVg1-B	Vg1 VLE (nt 1440-1816)	Plasmid digested with Bam HI generates Vg1 transcript from nt 1440 to 1816 using T7 RNAP.
Vg1.1	Vg1, complete	Plasmid digested with Kpn1 generates full length Vg1 transcript using T7 RNAP. Plasmid digested with NdeI generates truncated Vg1 transcript missing the 3' UTR using T7 RNAP.
pBS KS II	Empty vector	Plasmid digested with PvuII generates a 356 nt nonsense RNA transcript using T7 RNAP for use in UV crosslinking.