

TERM-L-REP	3'-*CGCGTGGCCCCTAGGATCCGC-5'	3' TERM-L	3'-ACGGATCCTAGGTGACACGC-5'	AUG-GP	3'-CGTGTACCCTCGTCAAGTAAT-5'
TERM-L	3'-GCGTGGCCCCTAGGATCCGC-5'				
	5' 3'		5' 3'		5' 3'
JUNV S	{ vRNA vCRNAa.u.....a	JUNV S	{ vRNA vCRNA c.....g.....	JUNV
JUNV L	{ vRNA vCRNA	JUNV L	{ vRNA vCRNA c.....c.....	TCRV	c...c.....a.....
TCRV S	{ vRNA not reported vCRNAa.u.....a	TCRV S	{ vRNA vCRNA not reported	PICV	ca.ag.....aa.ug.g.
TCRV L	{ vRNA vCRNAa.u.....	TCRV L	{ vRNA c..... vCRNA c.....c.g.....	LCMV	.a.gg.....a.ug.g.
PICV S	{ vRNAa.u..... vCRNAa.....a	PICV S	{ vRNA c..... vCRNAc.g.....		
PICV L	{ vRNAa.....a vCRNAa.....a	PICV L	{ vRNAu.g..... vCRNAu.g.....	AUG-NP	3'-TTAGTGGTCTTGAAGACCGTA-5'
LCMV S	{ vRNAu vCRNAa.u.....a	LCMV S	{ vRNA vCRNA a.....c.g.....	JUNV	5' 3'
LCMV L	{ vRNAa vCRNAa.....u	LCMV L	{ vRNA a..... vCRNA a.....u.g.....	TCRV	cc.ug.uuug.ucg.caua.....
				PICV	.gugug.ac.ac..caaa.....
TERM-S	3'-*CGCGTGTACCTAGGATCCG-5'	3' TERM-S	3'-GCGGATCCTAGGGGCCACGC-5'	LCMV	g.aac.auug.gcaacaag.....
	5' 3'		5' 3'		
JUNV S	{ vRNAc.g..... vCRNAc.g.....	JUNV S	{ vRNA u.....a.u..... vCRNAa.u.....	AUG-Z	3'-CTTCTCCGTCTGTTTACCCGT-5'
JUNV L	{ vRNAc.g..... vCRNAc.g.....	JUNV L	{ vRNAa.u..... vCRNAa.u.....	JUNV	5' 3'
TCRV S	{ vRNA not reported vCRNAc.g.....	TCRV S	{ vRNA u.....a.u..... vCRNA not reported	TCRV	a..acuuuuc.agc.....
TCRV L	{ vRNAc.g..... vCRNAc.g.....	TCRV L	{ vRNAa.u..... vCRNAa.u.....	PICV	.guc.aaacuuggg.....ac
PICV S	{ vRNAc.g..... vCRNAc.g.....	PICV S	{ vRNAa.u..... vCRNA u.....u.....	LCMV	uugagccucc.gcc.....c
PICV L	{ vRNAc.g..... vCRNAc.a.....	PICV L	{ vRNA u..... vCRNA u.....u.....		
LCMV S	{ vRNAc.g..... vCRNAc.g.....	LCMV S	{ vRNA u.....a.u..... vCRNA a.....a.u.....	AUG-L	3'-CGTGAACTCGTACCTCCTTAG-5'
LCMV L	{ vRNAc.g..... vCRNAc.a.....	LCMV L	{ vRNA a.....a.u..... vCRNA a.....u.....	JUNV	5' 3'
				TCRVc.....t..a.
				PICV	ttt.....t.....a
				LCMV	ttga.gcgca.....t..ga.
				IGS-S	3'-GACCGGCGCCTGACCCCTCC-5'
				JUNV	5' 3'
				RANDOM	3'-ACTCCATCGTTCAGCTCTGA-5'

Supplementary Figure S1. Arenavirus genomic sequences and complementary PPMO sequences are shown. Complementarity between PPMO and each target is indicated with a dot; mismatched nucleotides are indicated with letters. Asterisks denote the 3'-terminal base that was intended to pair with the 5'-terminal guanine that marks intracellular viral RNA template strands. AUG translation initiation codons in each viral mRNA are marked with a red box. Red arrows indicate the direction of translation.