Supplementary Table S1. HSV-1 and -2 plasmid inventory and expression analysis.

Listed is the final plasmid collection used for printing protein microarrays. HSV-1 and HSV-2 plasmids were prepared by PCR and homologous recombination, and expressed in IVTT reactions. Reactions containing non-recombinant plasmid or no plasmid were used as controls (not shown). IVTT reactions were then printed directly onto nitrocellulose and protein expression verified using antibodies to the N- and C- terminal polyhistidine (HIS) and hemagglutinin (HA) epitope tags. Triplicate arrays were probed with anti-HIS and anti-HA and averaged. Signals >Avg C+2SD for either or both tags were taken to indicate protein expression. See Materials and Methods for details.

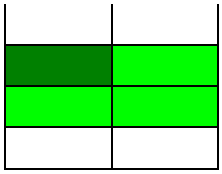
plasmid name	QC PCR	Seq	HIS	HA	plasmid name	QC PCR	Seq	HIS	HA
HSV1_UL1	++	99%			HSV2_UL1	++	95%		
HSV1_UL2		89%			HSV2_UL2	++			
HSV1_UL3	++	99%			HSV2_UL3	++	100%		
HSV1_UL4	++	99%			HSV2_UL4	++			
HSV1_UL5	++	97%			HSV2_UL5	++	91%		
HSV1_UL6		83%,			HSV2_UL6	++			
HSV1_UL7		96%			HSV2_UL7	++			
HSV1_UL8		97%			HSV2_UL8	++	88%		
HSV1_UL9		96%			HSV2_UL9	++	96%		
HSV1_UL10	++	94%			HSV2_UL10	++			
HSV1_UL11	++	99%			HSV2_UL11	++	100%		
HSV1_UL12		96%			HSV2_UL12	-	94%		
HSV1_UL13	++	97%			HSV2_UL13	++			
HSV1_UL14	++	99%			HSV2_UL14	++	100%		
HSV1_UL15					HSV2_UL15				
HSV1_UL15 exon 1	++	97%			HSV2_UL15 exon 1	+	100%		
HSV1_UL15 exon 2	++	97%			HSV2_UL15 exon 2	++	95%		
HSV1_UL16	++	83%			HSV2_UL16	++	100%		
HSV1_UL17		95%			HSV2_UL17	++	93%		
HSV1_UL18	++	96%			HSV2_UL18	++	95%		
HSV1_UL19					HSV2_UL19				
HSV1_UL20	++	99%			HSV2_UL20	++	100%		
HSV1_UL21	++	96%			HSV2_UL21	++	99%		
HSV1_UL22		87%			HSV2_UL22	++	96%		
HSV1_UL23	++	97%			HSV2_UL23	++	100%		
HSV1_UL24	++	98%			HSV2_UL24	++	100%		
HSV1_UL25	++	98%			HSV2_UL25	++			
HSV1_UL26		85%			HSV2_UL26	++			
HSV1_UL26.5		94%			HSV2_UL26.5	+	80%		
HSV1_UL27		60%			HSV2_UL27	++	99%		
HSV1_UL28		95%			HSV2_UL28	-	85%		

HSV1_UL29	++	98%	HSV2_UL29	-	97%	
HSV1_UL30		99%	HSV2_UL30	-	92%	
HSV1_UL31	++	97%	HSV2_UL31	++		
HSV1_UL32		95%	HSV2_UL32	++		
HSV1_UL33	++	99%	HSV2_UL33	++	100%	
HSV1_UL34		82%	HSV2_UL34	++	99%	
HSV1_UL35	++	100%	HSV2_UL35	++	100%	
HSV1_UL37			HSV2_UL37			
HSV1_UL38	++	87%	HSV2_UL38	+		
HSV1_UL39		96%	HSV2_UL39	++		
HSV1_UL40	++	96%	HSV2_UL40	++	100%	
HSV1_UL41	++	93%	HSV2_UL41	++	88%	
HSV1_UL42		83%	HSV2_UL42	++	100%	
HSV1_UL43		97%	HSV2_UL43	++		
HSV1_UL44		93%	HSV2_UL44	++	94%	
HSV1_UL45		99%	HSV2_UL45	++	99%	
HSV1_UL46			HSV2_UL46			
HSV1_UL47		89%	HSV2_UL47	++	97%	
HSV1_UL48		96%	HSV2_UL48		98%	
HSV1_UL49		95%	HSV2_UL49	++		
HSV1_UL49.5	++	100%	HSV2_UL49A	++		
HSV1_UL50	++	96%	HSV2_UL50	++	100%	
HSV1_UL51	++	98%	HSV2_UL51	++	100%	
HSV1_UL52	++	93%	HSV2_UL52	-		
HSV1_UL53	++	82%	HSV2_UL53	++	99%	
HSV1_UL54			HSV2_UL54	++	91%	
HSV1_UL55	++	93%	HSV2_UL55	++	100%	
HSV1_UL56	++	88%	HSV2_UL56	++	100%	
HSV1_US01	++	98%	HSV2_US1	++	80%	
HSV1_US02		98%	HSV2_US2	++		
HSV1_US03	++	96%	HSV2_US3		97%	
HSV1_US04		99%	HSV2_US4	++		
HSV1_US05	++	99%	HSV2_US5	++	100%	
HSV1_US06	++	88%	HSV2_US6	++	98%	
HSV1_US07	++	97%	HSV2_US7	++	92%	
HSV1_US08		96%	HSV2_US8	++		
HSV1_US08.5	++	99%	HSV2_US8A	++	97%	
HSV1_US09	++	100%	HSV2_US9	++	99%	
HSV1_US10	++	98%	HSV2_US10	++	90%	
HSV1_US11	++	88%	HSV2_US11	++	100%	
HSV-1_US12	+	100%	HSV2_US12	++		

HSV1_RS1/ICP4		HSV2_RS1/ICP4	
HSV1_RS1'/ICP4			
HSV1_RL1/ICP34.5		HSV2_RL1	
		HSV2_RL1, exon1	

HSV1_RL2/ICP0

HSV1_RL2'/ICP0

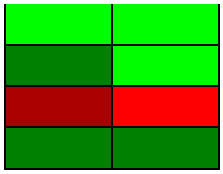


HSV2_RL1, exon2

HSV2_RL2, exon1

HSV2_RL2, exon2

HSV2_RL2, exon3



Signal Intensity

	50000
	40000
	35000
	30000
	25000
	20000
	15000
	10000
	5000
	0