

Supplement Table 1. Primer sequences of *pvmosp1p* and *pvmosp1* genes for recombinant protein expression and COS-7 cell surface expression

Name (<i>pvmosp</i> -)	Sequences (5'-->3') ^a	Position	Fragment	Target gene	Use
1p83A_F	gggCGGATATctcgagAACTGGAAGAACCTGCACAA	87-106	83A	<i>pvmosp1p</i>	Recombinant
1p 83A_R	gcggtaccCGGgGATccctaGTCGCTGCTGATGTTTTTCG	816-834			protein
1p 83B_F	gggCGGATATctcgagGTCTATTCGGGTGTCTACGCC	684-664	83B	<i>pvmosp1p</i>	expression
1p 83B_R	gcggtaccCGGgGATccctaCGTGGGAATTTTTCCCTCTC	1565-1584			
1p 83C_F	gggCGGATATctcgagAGGGCCTACATAGCCGAGA	1434-1452	83C	<i>pvmosp1p</i>	
1p 83C_R	gcggtaccCGGgGATccctaTACAAGCCGGAGTTAAGG	2176-2193			
1p 30_F	gggCGGATATctcgagGCCTATATGAGTGAGCACCTTG	2194-2215	30	<i>pvmosp1p</i>	
1p 30_R	gcggtaccCGGgGATccctaGCGATACACGGTTTTTCCTCTC	3118-3138			
1p 38_F	gggCGGATATctcgagCAGCTGCAAGCGGGGTT	3139-3155	38	<i>pvmosp1p</i>	
1p 38_R	gcggtaccCGGgGATccctaGACGAGTGAGTAGAATTCTTTCATTTT	4396-4422			
1p 42_F	gggCGGATATctcgagGACACCCTACACACAATCAAACTGT	4423-4448	42	<i>pvmosp1p</i>	
1p 42_R	gcggtaccCGGgGATccctaGCTGCACACGACCCCCTC	5485-5502			
1p 33_F	gggCGGATATctcgagGACACCCTACACACAATCAAACTGT	4423-4448	33	<i>pvmosp1p</i>	
1p 33_R	gcggtaccCGGgGATccctaCGCTGCGGCCTTCAG	5230-5244			
1p 19_F	gggCGGATATctcgagGACCGTGTGGAAAAGAACTGC	5244-5264	19	<i>pvmosp1p</i>	
1p 19_R	gcggtaccCGGgGATccctaACTCCCTCTGCCTTATATGACG	5481-5502			
1p 30_Cos7F	ggtcctggacGAATTCGCCTATATGAGTGAGCACCTTG	2194-2215	30	<i>pvmosp1p</i>	COS-7 cell
1p 30_Cos7R	gtgtatggggccttGGGCCCTCTCCTTTTGGCACATAGCG	3118-3138			surface
1p 42-Cos7F	ggtcctggacGAATTCGACACCCTACACACAATCAAACTGT	4423-4448	42	<i>pvmosp1p</i>	expression

1p 42_Cos7R	gtgtatggggcctt <u>GGGCCC</u> GCTGCACACGACCCCCTC	5485-5502		
1p 33_Cos7F	ggcctggac <u>GAATTC</u> GACACCCTACACACAATCAACTGT	4423-4448	33	<i>pvmsp1p</i>
1p 33_Cos7R	gtgtatggggcctt <u>GGGCCC</u> GCTGCGGCCTTCAG	5230-5244		
1p 19_Cos7F	ggcctggac <u>GAATTC</u> GACCGTGTGGAAAAGAACTGC	5244-5264	19	<i>pvmsp1p</i>
1p 19_Cos7F	gtgtatggggcctt <u>GGGCCC</u> GCTGCACACGACCCCCTC	5481-5502		
1 19_Cos7F	ggcctggac <u>GAATTC</u> ACTATGAGCTCCGAGCACACAT	4918-4939	19	<i>pvmsp1</i>
1-19_Cos7R	gtgtatggggcctt <u>GGGCCC</u> GCTACAGAAAACCTCCCTCAAAGAG	5152-5187		

^aThe vector sequences are italicized, and the *Eco*RI and *Apa*I sites are underlined.