Table 1. Delivered dose as determined by back titration of inoculum following day 0 challenge.

Virus/Lot no.	Target Dose	Back Titer
DDV/ADCEO	2.0x10 <sup>6</sup>	1.5x10 <sup>6</sup>
PRVABC59	2.0x10 <sup>5</sup>	1.8x10 <sup>5</sup>
040516-BAS	2.0x10 <sup>4</sup>	1.1x10 <sup>4</sup>
IPHIOCEC	2.0x10 <sup>6</sup>	7.8x10 <sup>5</sup>
IbH30656	2.0x10 <sup>5</sup>	$6.7x10^4$
041416-BAS	2.0x10 <sup>4</sup>	$5.5x10^{3}$
DLCal 7V	2.0x10 <sup>6</sup>	1.3x10 <sup>6</sup>
PLCal_ZV	2.0x10 <sup>5</sup>	1.8x10 <sup>5</sup>
092616-BAS	2.0x10 <sup>4</sup>	5.9x10 <sup>3</sup>

Table 2. PRVABC59 genome copies in serum detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)														
Animal	Dose	Sex	0	1	2	3	4	5	6	7	8	9	10	15	20	25	30
5374	1.0x10 <sup>6</sup>	М	0.00E0	2.21E5	6.07E5	0.00E0											
5363	1.0x10 <sup>6</sup>	М	0.00E0	9.02E4	2.34E5	1.19E5	4.86E2	4.94E2	9.72E1	4.54E1	0.00E0						
5375	$1.0x10^6$	F	0.00E0	2.41E5	1.47E5	2.54E4	2.10E2	1.94E1	0.00E0								
5381	$1.0x10^6$	F	0.00E0	3.63E5	2.43E6	7.80E5	8.37E2	7.84E1	4.74E1	0.00E0	3.87E1	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
Average			0.00E0	2.29E5	8.55E5	2.31E5	3.83E2	1.48E2	3.62E1	1.14E1	9.68E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5360	1.0x10 <sup>5</sup>	М	0.00E0	4.04E4	1.39E6	1.20E6	7.57E3	3.85E2	3.96E1	0.00E0	0.00E0	0.00E0	0.00E0	5.26E1	0.00E0	0.00E0	0.00E0
5368	1.0x10 <sup>5</sup>	М	0.00E0	2.64E4	2.39E5	1.39E5	3.44E2	3.82E2	2.36E2	0.00E0	0.00E0	3.67E1	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5389	1.0x10 <sup>5</sup>	F	0.00E0	2.17E4	3.80E5	4.72E5	1.81E4	3.89E2	0.00E0	0.00E0	0.00E0	2.63E1	0.00E0	0.00E0	0.00E0	3.85E1	0.00E0
5378	1.0x10 <sup>5</sup>	F	0.00E0	6.22E4	1.26E5	5.66E4	1.33E3	2.02E1	0.00E0	0.00E0	0.00E0	3.95E1	6.94E0	0.00E0	0.00E0	0.00E0	0.00E0
Average			0.00E0	3.77E4	5.34E5	4.67E5	6.84E3	2.94E2	6.89E1	0.00E0	0.00E0	2.56E1	1.74E0	1.32E1	0.00E0	9.63E0	0.00E0
5366	1.0x10 <sup>4</sup>	М	0.00E0	6.93E2	1.63E4	1.80E4	9.70E3	1.11E3	0.00E0								
5362	1.0x10 <sup>4</sup>	М	0.00E0	6.29E3	8.05E4	6.10E4	2.47E3	5.91E1	0.00E0								
5388	1.0x10 <sup>4</sup>	F	0.00E0	2.47E3	9.60E4	1.12E5	8.82E4	5.59E3	5.26E2	0.00E0							
5376	1.0x10 <sup>4</sup>	F	0.00E0	1.35E3	8.48E4	3.44E5	1.12E5	1.46E3	4.65E1	0.00E0							
Average			0.00E0	2.70E3	6.94E4	1.34E5	5.31E4	2.05E3	1.43E2	0.00E0							

Table 3. PLCal\_ZV genome copies in serum detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)														
Animal	Dose	Sex	0	1	2	3	4	5	6	7	8	9	10	15	20	25	30
5367	1.0x10 <sup>6</sup>	М	0.00E0	3.86E4	5.90E5	3.57E5	6.29E2	2.31E2	3.26E2	0.00E0	1.12E2	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5372	$1.0x10^6$	М	0.00E0	4.28E4	2.37E5	1.37E4	3.92E2	9.96E1	6.01E1	0.00E0							
5379	$1.0x10^6$	F	0.00E0	1.17E4	4.26E5	9.63E4	2.92E4	1.46E3	9.34E1	4.28E1	0.00E0						
5377	$1.0x10^6$	F	0.00E0	6.14E5	1.17E6	2.52E5	2.05E3	4.44E2	2.84E2	6.88E1	2.18E1	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
Average			0.00E0	1.77E5	6.06E5	1.80E5	8.07E3	5.59E2	1.91E2	2.79E1	3.35E1	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5369	1.0x10 <sup>5</sup>	М	0.00E0	3.11E3	5.41E4	7.08E4	6.47E2	2.87E2	0.00E0								
5358	1.0x10 <sup>5</sup>	М	6.68E1	2.43E3	5.39E4	2.22E5	2.29E5	3.16E3	8.66E1	4.26E1	0.00E0						
5380	1.0x10 <sup>5</sup>	F	0.00E0	7.04E3	9.03E4	9.11E4	3.21E4	1.15E3	1.22E2	0.00E0							
5384	1.0x10 <sup>5</sup>	F	1.26E1	7.72E3	1.56E5	1.67E5	5.90E4	8.15E2	2.28E2	6.41E1	0.00E0	0.00E0	0.00E0	0.00E0	2.89E1	0.00E0	0.00E0
Average			1.99E1	5.08E3	8.86E4	1.38E5	8.02E4	1.35E3	1.09E2	2.67E1	0.00E0	0.00E0	0.00E0	0.00E0	7.23E0	0.00E0	0.00E0
5370	1.0x10 <sup>4</sup>	М	0.00E0	3.60E2	9.78E3	7.53E4	2.00E5	2.83E4	7.20E2	3.56E2	0.00E0	5.71E1	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5359	1.0x10 <sup>4</sup>	М	7.07E1	1.12E2	3.19E3	2.42E4	2.42E4	2.21E5	2.74E4	7.75E2	0.00E0						
5392	1.0x10 <sup>4</sup>	F	0.00E0	2.93E2	1.68E3	3.88E4	7.05E5	7.02E5	2.20E4	0.00E0							
5383	1.0x10 <sup>4</sup>	F	0.00E0	1.28E2	7.13E3	6.25E4	8.26E4	9.46E5	7.55E4	1.23E3	1.04E2	0.00E0	6.50E1	0.00E0	0.00E0	0.00E0	0.00E0
Average			1.77E1	2.23E2	5.45E3	5.02E4	2.53E5	4.74E5	3.14E4	5.90E2	2.60E1	1.43E1	1.63E1	0.00E0	0.00E0	0.00E0	0.00E0

Table 4. IbH30656 genome copies in serum detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)														
Animal	Dose	Sex	0	1	2	3	4	5	6	7	8	9	10	15	20	25	30
5364	1.0x10 <sup>6</sup>	М	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.30E1	0.00E0	0.00E0	4.64E1	0.00E0
5373	$1.0x10^6$	М	0.00E0	1.19E2	5.26E2	1.77E1	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	4.24E1	0.00E0	0.00E0	0.00E0	0.00E0
5382	$1.0x10^6$	F	0.00E0	7.45E1	2.17E3	2.30E1	0.00E0	2.98E1	0.00E0								
5391	$1.0x10^6$	F	0.00E0	3.28E1	0.00E0	6.89E1	0.00E0	8.24E1	0.00E0	0.00E0	0.00E0	0.00E0	7.12E1	0.00E0	0.00E0	0.00E0	0.00E0
Average			0.00E0	5.66E1	6.74E2	2.88E1	0.00E0	2.81E1	0.00E0	0.00E0	0.00E0	0.00E0	3.17E1	0.00E0	0.00E0	1.16E1	0.00E0
5371	1.0x10 <sup>5</sup>	М	0.00E0	0.00E0	2.38E1	0.00E0	4.71E0	0.00E0									
5357	1.0x10 <sup>5</sup>	М	0.00E0	2.10E1	3.16E1	0.00E0											
5387	1.0x10 <sup>5</sup>	F	0.00E0	0.00E0	8.67E1	6.60E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	5.91E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5386	1.0x10 <sup>5</sup>	F	3.19E1	0.00E0													
Average			7.98E0	5.25E0	3.55E1	1.65E0	1.18E0	0.00E0	0.00E0	0.00E0	0.00E0	1.48E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5361	1.0x10 <sup>4</sup>	М	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	2.25E1	0.00E0	0.00E0	0.00E0	0.00E0
5365	1.0x10 <sup>4</sup>	М	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
5385	1.0x10 <sup>4</sup>	F	1.05E2	0.00E0	2.79E1	0.00E0											
5390	1.0x10 <sup>4</sup>	F	0.00E0	2.71E1	2.57E1	0.00E0											
Average			2.63E1	6.78E0	1.34E1	0.00E0	5.63E0	0.00E0	0.00E0	0.00E0	0.00E0						

Table 5. PRVABC59 genome copies in urine detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)							
Animal	Dose	Sex	5	10	15	20	25	30		
5374	1.0x10 <sup>6</sup>	М	5.03E1	0.00E0	0.00E0	2.12E1	0.00E0	5.93E1		
5363	$1.0x10^6$	М	0.00E0	6.84E1	8.55E1	0.00E0	0.00E0	0.00E0		
5375	$1.0x10^6$	F	5.27E1	3.56E1	0.00E0	0.00E0	0.00E0	0.00E0		
5381	$1.0x10^6$	F	1.72E1	3.77E1	4.04E1	0.00E0	0.00E0	0.00E0		
Average			3.01E1	3.54E1	3.15E1	5.30E0	0.00E0	1.48E1		
5360	1.0x10 <sup>5</sup>	М	0.00E0	0.00E0	0.00E0	5.84E1	6.10E1	6.98E1		
5368	$1.0x10^5$	М	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	9.90E1		
5389	$1.0x10^5$	F	0.00E0	0.00E0	0.00E0	0.00E0		0.00E0		
5378	1.0x10 <sup>5</sup>	F	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	4.28E1		
Average			0.00E0	0.00E0	0.00E0	1.46E1	2.03E1	5.29E1		
5366	1.0x10 <sup>4</sup>	М	0.00E0	0.00E0	0.00E0	0.00E0	4.53E1	0.00E0		
5362	1.0x10 <sup>4</sup>	М		0.00E0	5.94E1	0.00E0	5.85E1	0.00E0		
5388	1.0x10 <sup>4</sup>	F	0.00E0	1.92E3	6.08E1	1.25E2	0.00E0	0.00E0		
5376	1.0x10 <sup>4</sup>	F	0.00E0	0.00E0	0.00E0	1.50E2	0.00E0	0.00E0		
Average			0.00E0	4.80E2	3.01E1	6.88E1	2.60E1	0.00E0		

Table 6. PLCal\_ZV genome copies in urine detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)							
Animal	Dose	Sex	5	10	15	20	25	30		
5367	1.0x10 <sup>6</sup>	М	0.00E0				0.00E0			
5372	1.0x10 <sup>6</sup>	М	0.00E0				0.00E0	0.00E0		
5379	1.0x10 <sup>6</sup>	F	0.00E0				0.00E0	0.00E0		
5377	$1.0x10^6$	F	0.00E0				0.00E0	0.00E0		
Average			0.00E0				0.00E0	0.00E0		
5369	1.0x10 <sup>5</sup>	М	0.00E0			0.00E0	0.00E0	2.07E2		
5358	1.0x10 <sup>5</sup>	М	2.33E2			0.00E0	0.00E0	6.39E1		
5380	1.0x10 <sup>5</sup>	F	0.00E0			0.00E0	0.00E0			
5384	$1.0x10^5$	F	0.00E0							
Average			5.83E1			0.00E0	0.00E0	1.35E2		
5370	1.0x10 <sup>4</sup>	М	0.00E0	4.13E3		0.00E0	0.00E0	1.09E2		
5359	1.0x10 <sup>4</sup>	М	0.00E0			0.00E0	0.00E0	1.95E2		
5392	1.0x10 <sup>4</sup>	F	0.00E0			0.00E0	0.00E0	0.00E0		
5383	1.0x10 <sup>4</sup>	F	0.00E0			0.00E0				
Average			0.00E0	4.13E3		0.00E0	0.00E0	1.01E2		

Table 7. IbH30656 genome copies in urine detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)								
Animal	Dose	Sex	5	10	15	20	25	30			
5364	1.0x10 <sup>6</sup>	М	0.00E0			0.00E0					
5373	1.0x10 <sup>6</sup>	М	0.00E0			0.00E0					
5382	1.0x10 <sup>6</sup>	F	0.00E0			0.00E0					
5391	1.0x10 <sup>6</sup>	F	0.00E0			0.00E0	0.00E0				
Average			0.00E0			0.00E0	0.00E0				
5371	1.0x10 <sup>5</sup>	М	0.00E0	0.00E0							
5357	1.0x10 <sup>5</sup>	М	0.00E0	0.00E0		0.00E0	0.00E0				
5387	1.0x10 <sup>5</sup>	F	0.00E0	0.00E0		0.00E0					
5386	1.0x10 <sup>5</sup>	F	0.00E0			0.00E0					
Average			0.00E0	0.00E0		0.00E0	0.00E0				
5361	1.0x10 <sup>4</sup>	М	1.97E1	0.00E0							
5365	1.0x10 <sup>4</sup>	М	0.00E0	0.00E0			0.00E0				
5385	1.0x10 <sup>4</sup>	F	0.00E0	0.00E0		0.00E0	0.00E0				
5390	1.0x10 <sup>4</sup>	F	0.00E0	0.00E0		0.00E0	0.00E0				
Average			4.93E0	0.00E0		0.00E0	0.00E0				

Table 8. PRVABC59 genome copies in saliva detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)						
Animal	Dose	Sex	5	10	15	20	25	30	
5374	1.0x10 <sup>6</sup>	М	2.73E1	3.60E1	0.00E0	3.73E1	0.00E0	0.00E0	
5363	$1.0x10^6$	М	5.03E1	1.24E2	0.00E0	4.29E1	0.00E0	0.00E0	
5375	$1.0x10^6$	F	0.00E0	0.00E0	0.00E0	3.39E1	0.00E0	0.00E0	
5381	1.0x10 <sup>6</sup>	F	4.32E1	6.05E1	2.99E1	0.00E0	0.00E0	0.00E0	
Average			3.02E1	5.51E1	7.48E0	2.85E0	0.00E0	0.00E0	
5360	1.0x10 <sup>5</sup>	М	2.06E2	7.20E1	2.68E2	0.00E0	0.00E0	0.00E0	
5368	1.0x10 <sup>5</sup>	М	3.57E3	0.00E0	0.00E0	0.00E0	2.13E1	0.00E0	
5389	1.0x10 <sup>5</sup>	F	4.35E1	0.00E0	1.08E2	4.89E1	0.00E0	0.00E0	
5378	1.0x10 <sup>5</sup>	F	5.68E1	0.00E0	5.47E1	7.15E1	0.00E0	0.00E0	
Average			9.70E2	1.80E1	1.08E2	3.01E1	5.33E0	0.00E0	
5366	1.0x10 <sup>4</sup>	М	0.00E0	0.00E0	1.35E2	0.00E0	1.58E1	0.00E0	
5362	1.0x10 <sup>4</sup>	М	0.00E0	4.02E1	1.32E2	3.92E1	0.00E0	0.00E0	
5388	1.0x10 <sup>4</sup>	F	6.83E1	0.00E0	7.90E1	0.00E0	0.00E0	0.00E0	
5376	1.0x10 <sup>4</sup>	F	0.00E0	0.00E0	2.30E1	0.00E0	0.00E0	0.00E0	
Average			1.71E1	1.00E1	9.23E1	9.81E0	3.94E0	0.00E0	

Table 9. PLCal\_ZV genome copies in saliva detected by quantitative RT-PCR.

			Da	Day Post Infection (Genome Copies/mL)							
Animal	Dose	Sex	5	10	15	20	25	30			
5367	1.0x10 <sup>6</sup>	М	6.80E2	0.00E0	1.98E2	0.00E0					
5372	1.0x10 <sup>6</sup>	М	2.17E2	6.80E1	0.00E0	0.00E0					
5379	1.0x10 <sup>6</sup>	F	2.66E2	9.90E1	6.43E1	0.00E0					
5377	1.0x10 <sup>6</sup>	F	1.77E2	1.19E2	7.45E1	0.00E0					
Average			3.35E2	7.15E1	8.43E1	0.00E0					
5369	1.0x10 <sup>5</sup>	М	0.00E0	0.00E0	2.44E2	0.00E0					
5358	1.0x10 <sup>5</sup>	М	2.33E2	3.75E1	2.75E1	0.00E0					
5380	1.0x10 <sup>5</sup>	F	1.35E3	0.00E0	4.75E1	0.00E0					
5384	1.0x10 <sup>5</sup>	F	0.00E0	7.04E1	6.13E1	0.00E0					
Average			3.97E2	2.70E1	9.52E1	0.00E0					
5370	1.0x10 <sup>4</sup>	М	9.48E1	0.00E0	6.58E2	0.00E0		0.00E0			
5359	1.0x10 <sup>4</sup>	М	8.97E1	0.00E0	0.00E0	0.00E0		0.00E0			
5392	1.0x10 <sup>4</sup>	F	9.23E1	3.24E2	0.00E0	0.00E0					
5383	1.0x10 <sup>4</sup>	F	8.11E1	0.00E0	0.00E0	0.00E0					
Average			8.94E1	8.09E1	1.65E2	0.00E0		0.00E0			

Table 10. IbH30656 genome copies in saliva detected by quantitative RT-PCR.

			Day Post Infection (Genome Copies/mL)						
Animal	Dose	Sex	5	10	15	20	25	30	
5364	1.0x10 <sup>6</sup>	М							
5373	$1.0x10^6$	М							
5382	$1.0x10^6$	F							
5391	$1.0x10^6$	F							
Average									
5371	1.0x10 <sup>5</sup>	М							
5357	1.0x10 <sup>5</sup>	М							
5387	1.0x10 <sup>5</sup>	F							
5386	1.0x10 <sup>5</sup>	F							
Average									
5361	1.0x10 <sup>4</sup>	М							
5365	1.0x10 <sup>4</sup>	М							
5385	1.0x10 <sup>4</sup>	F							
5390	1.0x10 <sup>4</sup>	F							
Average									