

**Table S1** Clinical observations of macaques inoculated with the M3 (high and low dose) and PBS groups

Group	Macaque No.	Diet	Oral vesicle	General symptoms	Viremia	Virus shedding*
<b>M3 high-dose</b>	#16209	normal	-	-	-	-
	#16065	normal	-	-	-	-
	#16061	normal	-	-	-	-
	#16137	normal	-	-	-	-
<b>M3 low-dose</b>	#16149	normal	-	-	-	-
	#16175	normal	-	-	-	-
	#16319	normal	-	-	-	-
<b>PBS control</b>	#16173	normal	-	-	-	-
	#16153	normal	-	-	-	-
	#16379	normal	-	-	-	-

"-": indicates that none of the above symptoms occurred

"\*": virus shedding samples from the mouth, nose, eye, feces and urine.

**Table S2** Histopathological detection of various tissues in the high-dose group

Tissue	#16209	#16065	#16061	#16137
<b>TG</b>	-	-	-	-
<b>Spinal cord</b>	-	-	-	-
<b>Mesencephalon</b>	-	-	-	-
<b>Pons varolii</b>	-	-	-	-
<b>Cerebellum</b>	-	-	-	-
<b>Thalamus</b>	-	-	-	-
<b>Cerebrum</b>	-	-	-	-
<b>Heart</b>	-	-	-	-
<b>Liver</b>	-	-	-	-
<b>Spleen</b>	-	-	-	-
<b>Lung</b>	-	-	-	-

**Table S3** Histopathological detection in tissues in the M3 low-dose and PBS control groups

Tissue	M3 low-dose			PBS Control		
	#16173	#16153	#16379	#16149	#16175	#16319
Spinal cord	-	-	-	+++	++	++
Optic nerve	-	-	-	++	+	+
Mesencephalon	-	-	+	++	+	+
Pons varolii	-	+	-	+	+	+
Thalamus	-	-	-	+	++	++
Heart	-	-	-	++	-	+
Liver	-	-	-	++	+	-
Spleen	-	-	-	+	++	-
Lung	+	-	-	++	++	+

“-”: negative.

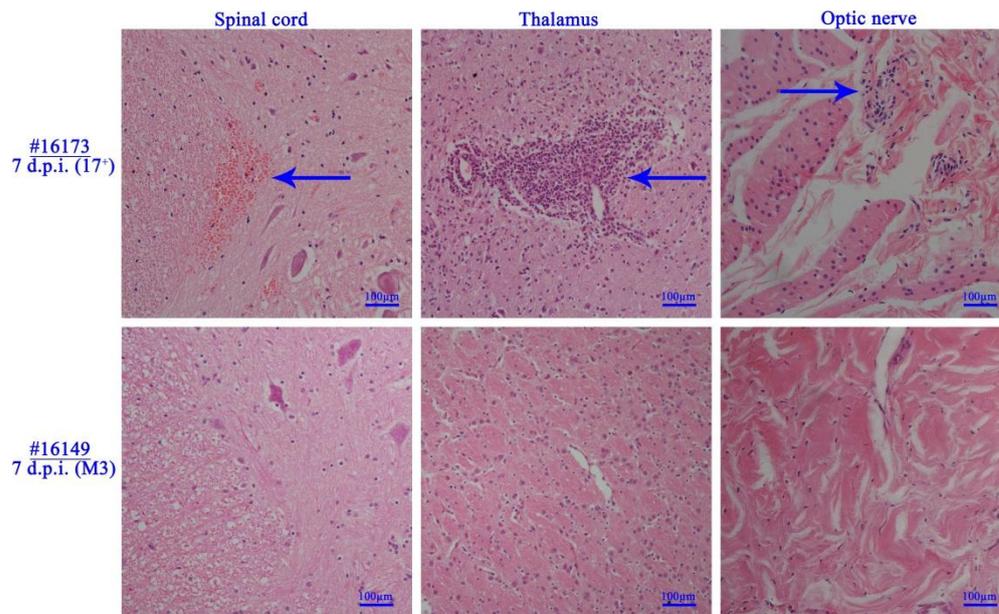
“+”: Slight inflammatory cells infiltration without neural damage.

“++”: Slight inflammatory cell infiltration with neural damage.

“+++”: Aggravated inflammatory with neural damage.

#### Supplementary figure legends

**Figure S1** Pathological features M3 low-dose- and PBS-inoculated macaques challenged with wild-type 17<sup>+</sup> strains.



Histopathological detection of spinal cord, thalamus and optic nerve of M3 low-dose macaque(#16149) and PBS control macaques (#16173) , positive pathological change are indicated by arrows, scale bars=100 µm.