

Table S3. RT2Profiler PCR array analysis showing changes in the expression of 63 genes in the brains of DOG4-RV infected mice that were either mock-treated or treated with TriGAS vaccine versus expression of genes in brains of normal control mice.

The genes analyzed in this array were selected from clusters of differentially expressed mRNA coding genes identified by the whole transcriptome analysis shown in Table S1. The data represent normalized average values obtained from 3 mice per group. Red numbers indicate significant up-regulation ($p < 0.01$) and blue numbers indicate significant down-regulation in gene expression ($p < 0.01$) of infected versus uninfected mice. Underlined red numbers indicate higher gene expression in brains of TriGAS versus mock-treated mice.

		d4		d6		d8		
		Mock	TriGAS	Mock	TriGAS	Mock	TriGAS	
Cluster 1	Cdc25b	<u>1.9</u>	1.2	<u>2.5</u>	1.2	-1.2	-1.3	
	Hdac5	1.4	-1.2	1.3	1.1	<u>-16.8</u>	<u>-2.1</u>	
	Runx2	<u>4.3</u>	1.8	<u>5.8</u>	<u>2.5</u>	<u>3.1</u>	1.3	
	Ttf1	1.8	1.2	<u>1.9</u>	1.2	1.3	-1.1	
Cluster 2	Btla	<u>2.1</u>	1.1	<u>3.1</u>	-1.2	<u>2.5</u>	1.0	
	Cd72	1.6	-1.1	<u>1.9</u>	1.4	<u>6.3</u>	<u>13.3</u>	
	Dhx58	1.1	1.1	<u>2.2</u>	1.3	<u>16.7</u>	<u>11.4</u>	
	H2-Q7	-1.0	1.7	1.4	1.7	<u>12.5</u>	<u>13.3</u>	
	Ifih1	1.4	1.3	<u>4.9</u>	<u>2.3</u>	<u>93.8</u>	<u>16.3</u>	
	Lcn2	1.7	-1.4	<u>2.5</u>	<u>4.2</u>	<u>154.8</u>	<u>7.7</u>	
	Ly6i	<u>2.0</u>	-1.0	<u>3.1</u>	<u>1.8</u>	<u>3.1</u>	<u>13.3</u>	
	Mefv	-1.6	-1.2	1.6	1.1	-1.1	<u>4.6</u>	
	Mmp3	1.4	-1.2	<u>5.0</u>	1.7	<u>17.3</u>	<u>20.6</u>	
	Nlrp1a	1.1	-1.2	<u>2.1</u>	-1.5	1.7	<u>1.9</u>	
	Nlrp1b	<u>1.9</u>	-1.5	<u>3.4</u>	1.2	1.2	1.4	
	Oas1a	-1.4	-1.6	<u>2.2</u>	1.7	<u>40.3</u>	<u>10.3</u>	
	Ppil5	<u>-2.2</u>	<u>-2.8</u>	-1.3	-2.0	<u>-2.8</u>	-1.5	
	Siglec1	1.7	1.2	<u>5.3</u>	1.5	<u>32.4</u>	<u>10.7</u>	
	Cluster 3	Batf2	-1.6	-1.2	<u>3.5</u>	<u>3.3</u>	<u>23.6</u>	<u>16.8</u>
Cd2		-1.1	-1.2	1.2	1.3	-1.2	<u>9.8</u>	
Cd44		-1.1	-1.2	1.1	-1.1	<u>3.2</u>	1.4	
Cfb		<u>2.0</u>	1.1	<u>2.2</u>	<u>1.8</u>	<u>7.5</u>	<u>6.7</u>	
Cybb		<u>1.9</u>	1.3	<u>2.4</u>	<u>3.0</u>	<u>9.9</u>	<u>11.0</u>	
Gbp10		1.5	1.7	<u>4.7</u>	<u>3.3</u>	<u>100.3</u>	<u>21.9</u>	
Irf7		1.3	<u>2.5</u>	<u>6.4</u>	<u>4.1</u>	<u>133.0</u>	<u>42.8</u>	
Mx1		1.1	1.0	<u>14.1</u>	<u>6.3</u>	<u>357.9</u>	<u>31.0</u>	
Mx2		1.1	-1.3	<u>5.6</u>	<u>3.4</u>	<u>59.8</u>	<u>8.9</u>	
Nlrc5		<u>-6.7</u>	<u>-3.5</u>	-1.0	<u>-2.7</u>	<u>2.0</u>	-1.6	
Parp14		-1.0	-1.2	<u>3.2</u>	<u>2.3</u>	<u>26.6</u>	<u>4.6</u>	
Plac8		1.5	1.3	<u>12.8</u>	<u>14.2</u>	<u>206.0</u>	<u>139.7</u>	
Sifn4		<u>2.1</u>	-1.1	<u>10.7</u>	<u>12.2</u>	<u>192.9</u>	<u>159.8</u>	
Tap1		1.3	1.1	<u>3.5</u>	<u>2.6</u>	<u>38.4</u>	<u>11.5</u>	
Usp18		1.9	<u>2.1</u>	<u>8.5</u>	<u>5.9</u>	<u>231.6</u>	<u>56.2</u>	
Zpb1		<u>-3.0</u>	-2.0	<u>2.1</u>	1.3	<u>24.5</u>	<u>9.1</u>	
Cluster 4		Cd69	<u>-5.5</u>	<u>-4.2</u>	<u>2.0</u>	1.7	<u>14.0</u>	<u>12.1</u>
		Cmpk2	1.4	1.2	1.8	1.4	<u>12.5</u>	<u>5.3</u>
		Il12b	-1.2	-1.3	-1.4	<u>5.4</u>	<u>155.5</u>	<u>29.2</u>
		Il1rn	<u>-2.0</u>	-1.4	1.1	-1.1	<u>5.6</u>	<u>9.5</u>
	Irg1	1.4	-1.2	<u>2.5</u>	<u>4.4</u>	<u>17.9</u>	<u>30.7</u>	
	Lck	-1.0	-1.2	1.4	1.3	3.2	3.1	
	Lilrb4	<u>1.9</u>	1.3	<u>2.7</u>	<u>2.3</u>	<u>15.6</u>	<u>17.4</u>	
	Pabpc3	<u>-2.4</u>	<u>-3.4</u>	-1.6	<u>-5.2</u>	<u>-4.1</u>	<u>-2.4</u>	
	Plaur	1.1	-1.0	1.5	1.4	<u>15.4</u>	<u>8.8</u>	
	Ptpnc	<u>2.0</u>	1.5	<u>1.9</u>	<u>2.6</u>	<u>2.3</u>	<u>6.9</u>	
	Cluster 5	Apaf1	<u>2.2</u>	1.3	<u>1.9</u>	1.1	1.5	-1.1
Arntl2		<u>2.6</u>	1.2	<u>3.6</u>	1.0	1.5	-1.7	
Ccl3		<u>-3.0</u>	-1.6	-1.2	<u>4.2</u>	<u>9.8</u>	<u>18.5</u>	
Cd40		1.1	-1.3	1.3	1.5	<u>3.3</u>	<u>8.1</u>	
Ceacam1		1.8	1.2	<u>2.6</u>	1.3	1.3	<u>-2.1</u>	
Col3a1		-1.4	-1.4	-1.0	-1.2	<u>-2.9</u>	<u>-2.7</u>	
GzmA		-1.4	<u>2.3</u>	1.7	<u>6.0</u>	<u>6.1</u>	<u>20.3</u>	
Lin9		<u>3.7</u>	1.0	<u>3.8</u>	<u>1.8</u>	<u>2.2</u>	-1.1	
Mapk13		-1.5	-1.6	-1.4	-1.1	<u>-2.3</u>	<u>-2.1</u>	
Postn		<u>2.0</u>	1.1	<u>1.8</u>	1.2	1.8	-1.3	
Prkdc		<u>1.9</u>	-1.0	<u>2.1</u>	-1.1	-1.1	<u>-2.6</u>	
Rgs1		<u>-2.4</u>	<u>-2.2</u>	-1.1	-1.8	<u>2.9</u>	<u>5.5</u>	
Sele		-1.5	-1.1	<u>2.8</u>	<u>5.4</u>	<u>29.0</u>	<u>18.0</u>	
Cluster 6		Adcy7	<u>2.0</u>	-1.1	<u>2.2</u>	1.3	1.1	-1.8
	Ccl17	-1.6	-1.3	-1.0	-1.5	1.7	<u>-3.3</u>	
	Cdh3	1.5	-1.1	1.2	-1.4	1.4	<u>2.3</u>	
	Celsr1	-1.2	-1.6	1.1	-1.3	<u>-3.0</u>	<u>-3.0</u>	
	Kcnq1	1.1	-1.5	1.1	-1.4	<u>-2.4</u>	<u>-2.2</u>	
Cluster 7	Glimn	1.6	1.2	1.7	-1.1	1.0	<u>-2.1</u>	