

Supplementary materials

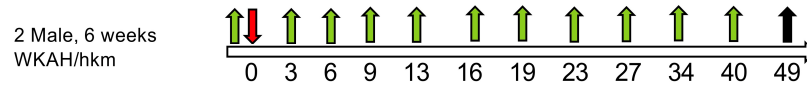
Table S1. Sex difference in antibody production against SEOV in wild rats.

	IgM	IgG+	IgG-	Total
Male	+	13	0	13
	-	7	79	86
	total	20	79	99
Female	+	15	1	16
	-	8	76	84
	total	23	77	100

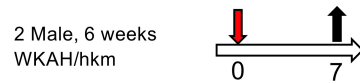
Table S2. SEOV genome detection from sera of IgG-positive rats

Viral Genome in Serum	IgM Antibody in Sera		
	+	-	
+	8	2	$p = 0.39$
-	17	9	

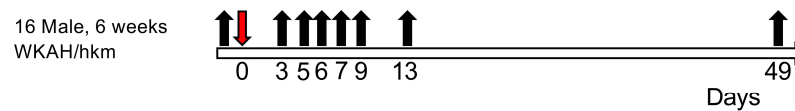
a. For fluctuation IgG (Fig.1A)



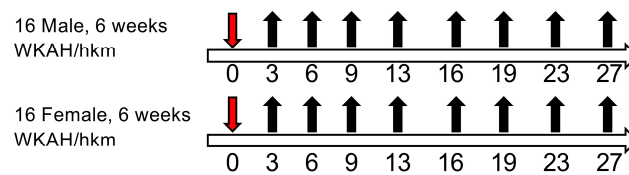
b. Determination of CTL epitope



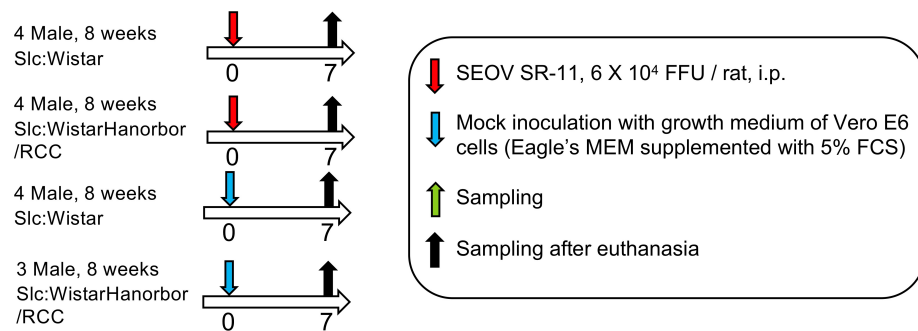
c. For fluctuation of CTL (Fig.1B)



d. For quantification of viral RNA (Fig.1C)

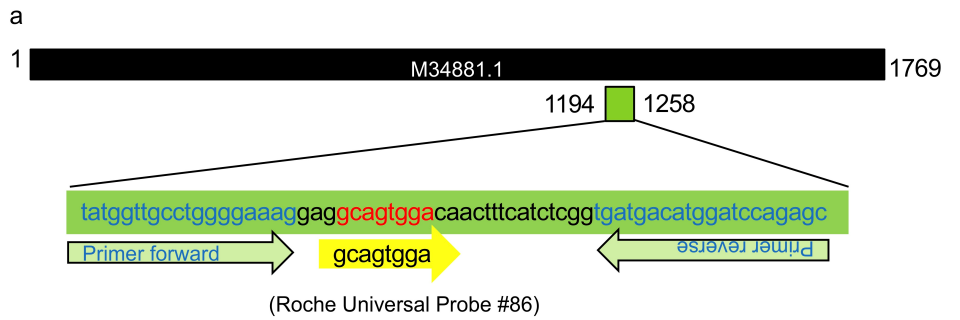


e. CTL detection in outbred rats (Fig.4 left panel)



Supplementary figure 1: Sample collection from laboratory rats experimentally inoculated with SEOV SR-11

Figure S1.: Sample collection from rats inoculated with SEOV SR-11.



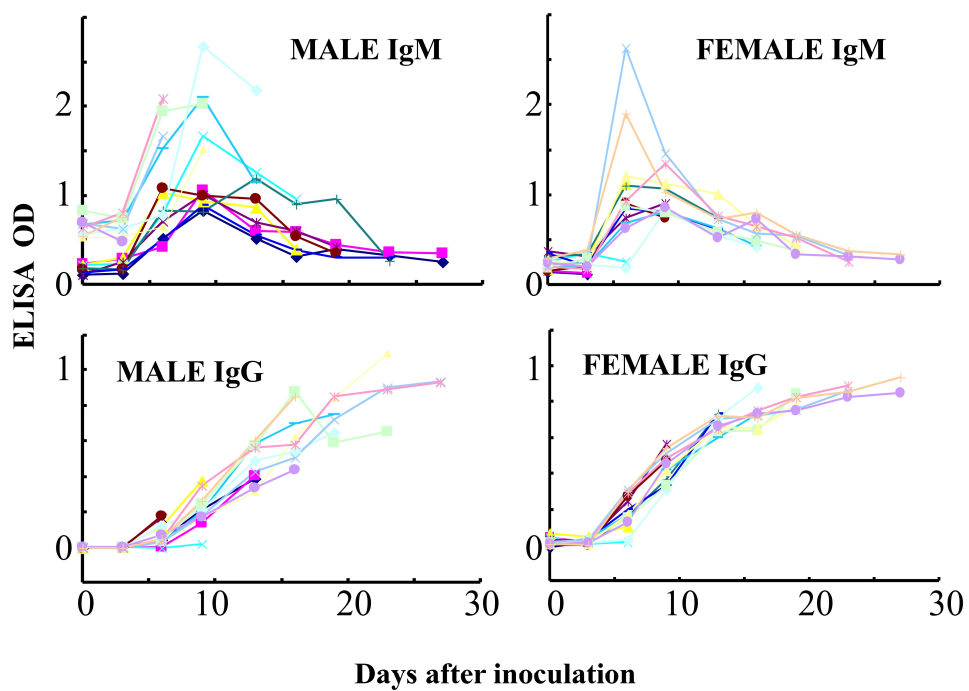
b

	*****	*****	*****	*****
SR11.seq	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618143	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC	Haiphong port	
AB618144	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618112	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618113	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618114	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618115	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618116	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618117	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC	Saigon port	
AB618118	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618119	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618120	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618121	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618122	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618123	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618124	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC	HCMC	
AB618125	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		
AB618126	TATGGTTGCCTGGGGAAAGGAGGCAGTGGACAAC	TTTCATCTCGGTGATGACATGGATCCAGAGC		

Supplementary figure 2 : Primers and a probe for quantification of viral RNA used in this study

- a. Based on sequence of S genome segment of SEOV strain SR-11 (Accession no. M34881.1), ProbeFinder software (provided by Roche) recommended several sets of primers and probes. This primer set was selected because sequence of this amplicon was highly conserved among SEOV strains.
- b. Nucleotide sequence similarities of Vietnamese SEOV to SR-11 were 98.5%-100%. Regions of primers and probe were shown in green and yellow, respectively.

Figure S2: Primers and a probe for quantification of viral RNA used in this study.



Supplementary figure 3. ELISA ODs of IgM and IgG antibodies in all rats inoculated with SEOV.

These rats were used to examine fluctuation of CTL activities and viral load in lungs, serum, and feces.

Figure S3: ELISA ODs of IgM and IgG antibodies in all rats inoculated with SEOV.