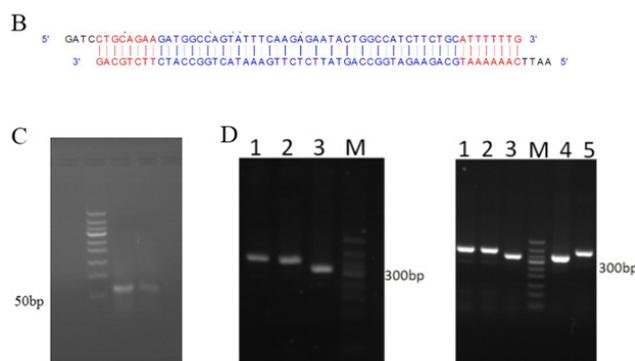
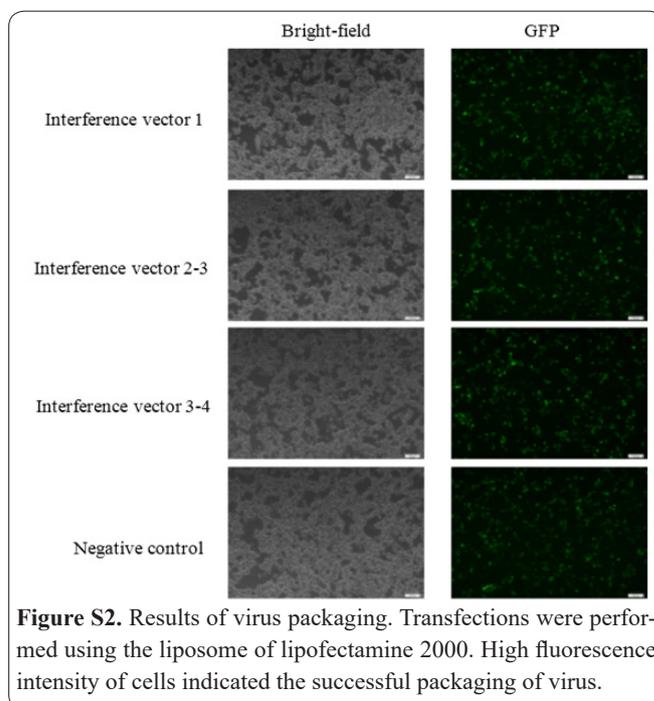


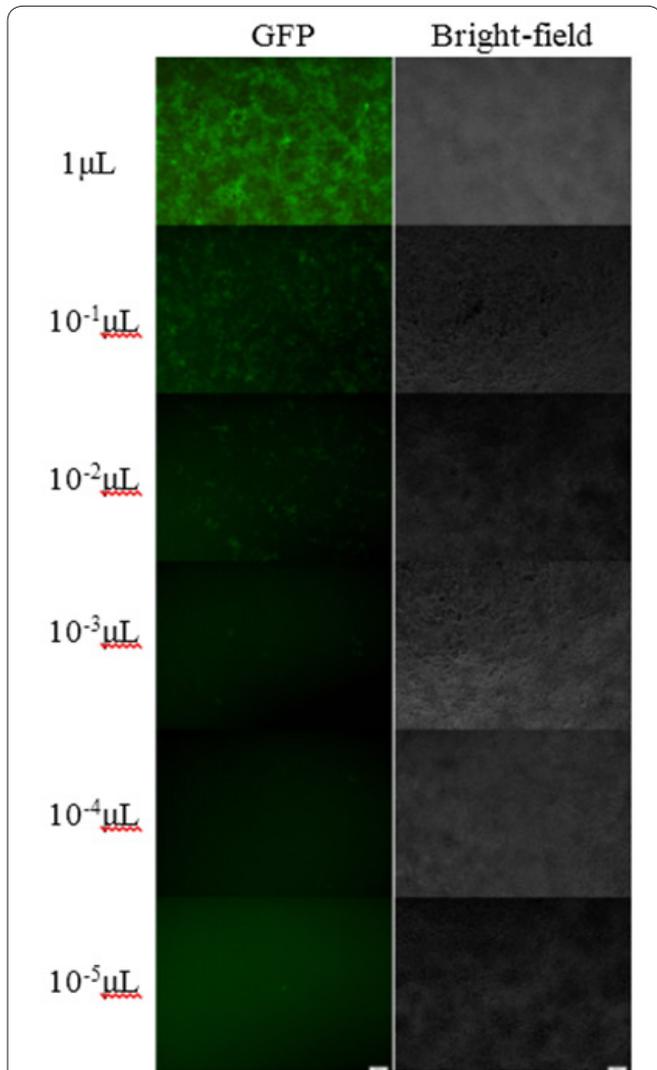
Interference fragment	Direction	Sequence (5'-3')
LM-ShRNA-1	F	GATCCTGCAGAAGATGGCCAGTATTTCAAGAGAATACTGGCCATCTTCTGCATTTTTTG
	R	AATTCAAAAAATGCAGAAGATGGCCAGTATTCTCTTGAAATACTGGCCATCTTCTGCAG
LM-ShRNA-2-3	F	GATCCGGAAAGAACAATGTGCCAAGATTCAAGAGATCTTGGCACATTGTTCTTTCTTTTTTG
	R	AATTCAAAAAAGGAAAGAACAATGTGCCAAGATCTCTGAATCTTGGCACATTGTTCTTTCCG
LM-ShRNA-3-4	F	GATCCGGAAGTCATCGATACAGAACATTCAAGAGATGTTCTGTATCGATGACTTCCTTTTTTG
	R	AATTCAAAAAAGGAAAGTCATCGATACAGAACATCTCTTGAATGTTCTGTATCGATGACTTCCG



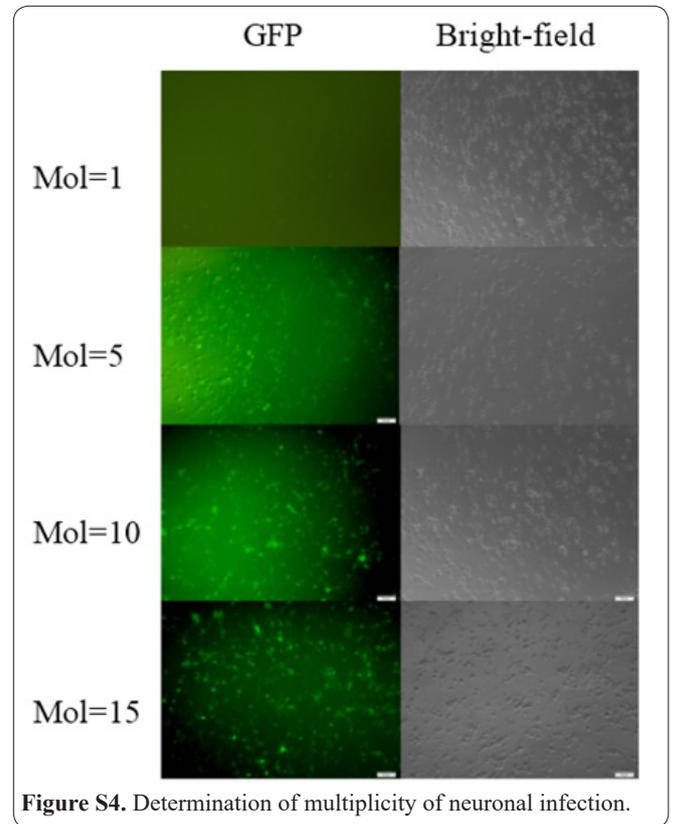
**Figure S1.** Construction of Sema3A interference vector. (A) The sequence of the interference fragment was designed based on accession number NM\_017310 of Sema 3A gene in NCBI gene bank. (B) The complementarities of the designed shRNA fragments. (C) Annealing determination of shRNA by 2% agarose gel electrophoresis. (D) PCR results of bacterial solution of shRNA vector. The left image shows the PCR results of the bacterial solution for No.1 interference vector: 1 and 2 represent the recombinant interference plasmids and 3 represent empty plasmids. The right image shows the PCR results of the bacterial solution for No.2 and 3 interference vector: 2 and 5 represent the recombinant interference plasmids and 3, 4 represent empty plasmids.



**Figure S2.** Results of virus packaging. Transfections were performed using the liposome of lipofectamine 2000. High fluorescence intensity of cells indicated the successful packaging of virus.



**Figure S3.** Virus titer determination was performed after packaging and concentration. The virus titer is equal to the number of cells with fluorescence divided by the amount of the virus's original solution.



**Figure S4.** Determination of multiplicity of neuronal infection.