

Supplementary Information

Figure S1

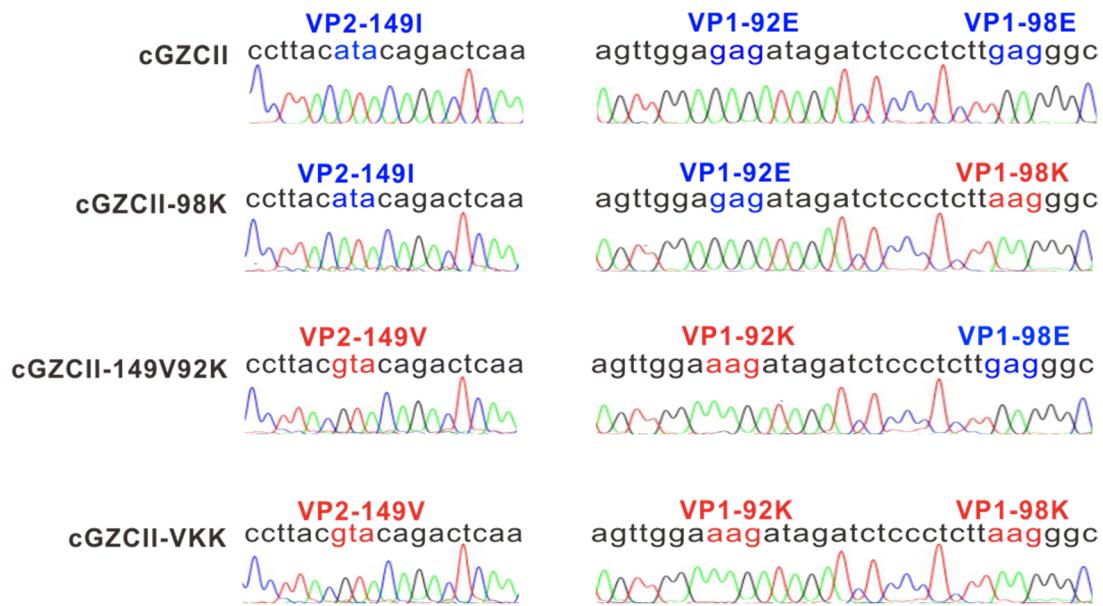


Figure S1. Sequence analysis of the constructed GZCII variants with different mutations at the VP2-149, VP1-92 and VP1-98 residues. The VP1 and VP2 regions were amplified from viral cDNA and subjected to Sanger sequencing to confirm mutagenesis.

Table S1. DNA oligos used in this study

Oligos	Sequence	Application
Vec-F	gggggttaatttgtataaccagaatgc	Construction of pEV71-GZCII
Vec-R	ccacaggctttaacctatagtgagtcgtattaatacgtaattt cg	
GZCII-1F	ttaaaacagcctgtgggtgcacccactc	
GZCII-3470R	acaaccttggcggtggat	
GZCII-3470F	accggccaagggtgtgatactattgcc	
GZCII-7404R	aacaaatttacccccaccagtacattcacg	
149V-F	cccccttacgtacagactcaacccggtgccgatg	
149V-R	ctgtacgtaaagggggtgggtgtcttccg	
92K-F	ttagttgaaagatagatctccctcttgaggcacaact	
92K-R	tatcttccaactaatccggccctgctgaaga	Site-directed mutagenesis to construct recombinant EV71-GZCII viruses
98K-F	cctctaagggcacaactaaccgaatggt	
98K-R	tgtgccctaagaggagatctatctccaactaatccggc	
92K98K-F	ttagttgaaagatagatctccctcttaaggcacaact	
92K98K-R	tatcttccaactaatccggccctgctgaaga	
GZCII-Seq-1F	ttaaaacagcctgtgggtgcacc	
GZCII-Seq-1R	cttgcaggcagcagattgtcc	Preparation of 2 DNA fragments covering the entire genome for NGS
GZCII-Seq-2F	cgacatggttaccctactgca	
GZCII-Seq-2R	gctattctggttataacaaatttacccacc	
sgEXT1-S	caccggacccaggcaggacacatgc	
sgEXT1-NS	aaacgcatgtgcctgcctggtcc	sgRNA expression plasmid construction
sgSRB2-S	caccgagatgctgcttctacacggc	
sgSRB2-NS	aaacgcgtgtagaaggcagcatctc	
SRB2KOid-F	ctctgctgctcattccgttatct	Amplification of the sgRNA target region for genotyping
SRB2KOid-R	gcaaacaagagctgtgttctgca	
EXT1KOid-F	cccacatgcgctggatcagt	
EXT1KOid-R	gtgcacgctggaaatctcg	
qEV-F	aaatggcagcgccactgaag	qRT-PCR detection of EV71 RNA copies
qEV-R	gggcgcgtggtttatccac	
qEV probe	FAM-tccaccatcaccacgcaagaagcggt-TAMRA	
mGAPDH-F	aggtcggtgtgaacggattg	qPCR detection of the mouse GAPDH gene
mGAPDH-R	tgttagaccatgttagtgaggcata	
Vec-F	gcagctgtggaaatgtgtcagt	Sequencing of pEV71-GZCII
630-R	caccggatggccatcca	
1310-R	aggagtgccttggtgg	
2030-R	gggtgttagtatccgcacaac	
2750-R	gttggcataaccattcggt	

3470-R	acaaccctggcggtggat
4110-R	tagcggcggtggccatatc
4820-R	agtctgtcacttcaatgtcac
5530-R	tcacgagttgtgctcaatcc
6230-R	caggcctccatgctc
6930-R	gggatagcttagcgagcacatc
7570-R	ggttattgtctcatgagcggaa