

Supplementary Table 1. Oligonucleotides utilized in this study

Designation ^a	Sequence (5'-3')
<i>tsa56_715F</i>	GTTACTGCATTGTCACATGCTAAT
<i>tsa56_835R</i>	GAACTTCAATATTAGCTACCTTAGCGA
<i>tsa56_Full_F</i>	CTTTTAAGGAGATTAGAATGAAAAAAATTATGT
<i>tsa56_Full_R</i>	AGAAAACTAGAAGTTATAGCGTACAC
<i>ank5-318F</i>	TCCTCTTCATTGCGCTGCTCATTAC
<i>ank5-539R</i>	TCACTTCCACTAATCTTTATGCCAAGATGCTC
<i>ott16S-911F</i>	GTGGAGCATGCGTTTAAATTCGATGATC
<i>ott16S-1096R</i>	TAAGAATAAGGGTTGCGCTCGTTGC
<i>Ank5ΔAR1 F^b</i>	<i>CAATGATGGACATGACCGGCACCACC</i>
<i>Ank5ΔAR1 R</i>	TCATGTCCATCATTGAATTCGCGGCCG
<i>Ank5ΔAR2 F</i>	ACCTGGGTAATTTGTACGGCCACACC
<i>Ank5ΔAR2 R</i>	ACAAATTACCCAGGTTGATGTAGTCC
<i>Ank5ΔAR3 F</i>	ACATCCAAGACAAGTACTGTTCCACCCC
<i>Ank5ΔAR3 R</i>	ACTTGTCTTGATGTTTCGGGTTGGC
<i>Ank5ΔAR4 F</i>	ACATTCAGGACGTGACCCACAGCACC
<i>Ank5ΔAR4 R</i>	TCACGTCCTGAATGTTGGGATTGGCGCC
<i>Ank5_{L68A} F^c</i>	CCAAAATGCCACACCGCAAGC
<i>Ank5_{L68A} R^c</i>	CCGTAAGCATTTTGGATGTTTCGGGTTGGCTCC
<i>Ank5_{Y69A} F^c</i>	AAATTTGGCCGGCCACACCGCAAGCCAT
<i>Ank5_{Y69A} R^c</i>	TGGCCGGCCAAATTTTGGATGTTTCGGGTTGGCT
<i>Ank5_{Y103A} F^c</i>	GGACAAGGCGTGTTCACCCCACTCCATTG
<i>Ank5_{Y103A} R^c</i>	GAACAAGGCTTGTCTGAATGTTGGGATTGGC
<i>Ank5_{S105A} F^c</i>	GTAAGTGTGCGCACTCCATTGCGCA
<i>Ank5_{S105A} R^c</i>	GGGGTGGCACAGTACTTGTCTGAATGTTGGGA

^aF and R refer to primers that bind to the sense and antisense strand, respectively.

^bItalicized text indicate nucleotides complementary to the p3XFLAG-CMV-7.1 vector.

^cHighlighted text indicate nucleotides used to make site-directed mutants.