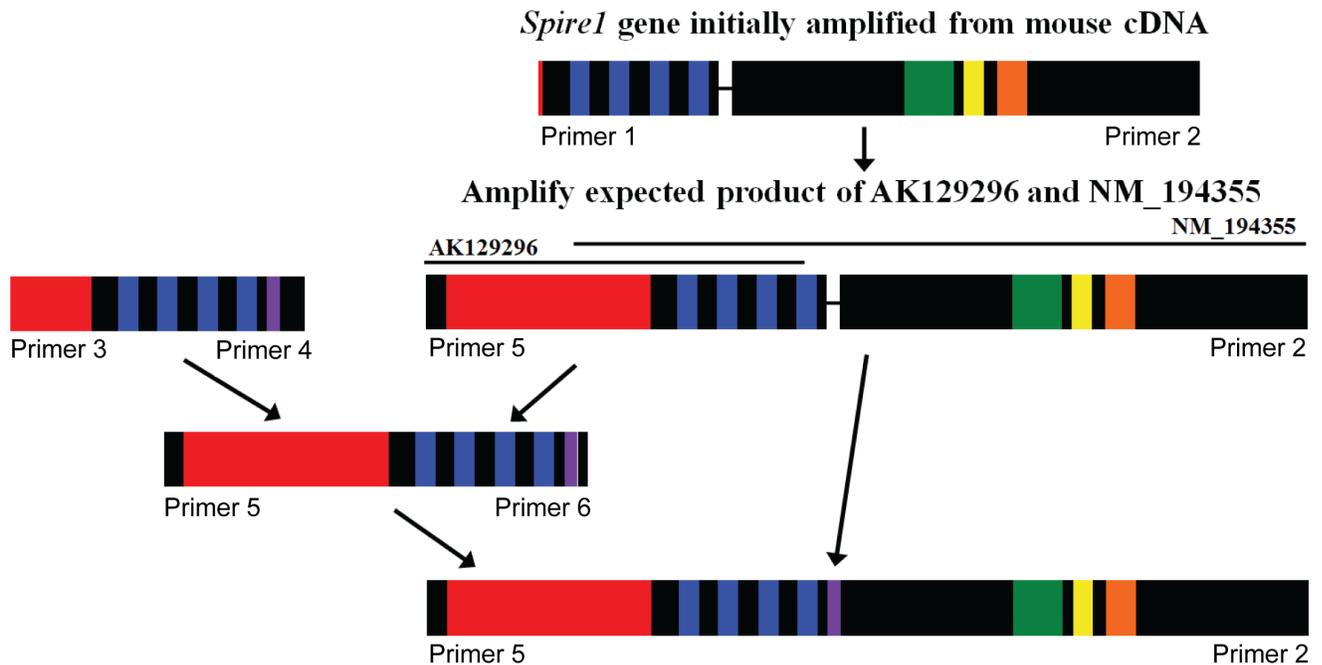


# Figure 1-figure supplement 1

A



B

Mouse *spire1* containing all exons (802 a.a.)

Domain	Residues	Function
 KIND (alternate exon A)	24-218	Kinase-non catalytic C-lobe domain; putative signaling domain
 WH2 repeats	255-373	Wiskott-Aldrich syndrome protein (WASP) homology 2 domains; actin nucleation
 Alternate exon B	384-397	?
 Alternate exon C	535-592	Mitochondrial targeting*
 Spir box	602-622	Potential Rab 3a interaction domain and membrane targeting
 mFYVE	634-669	Predicted membrane binding (PI <sub>3</sub> P)
 Uncharacterized		?

\* Previously uncharacterized domain; novel function found in this study