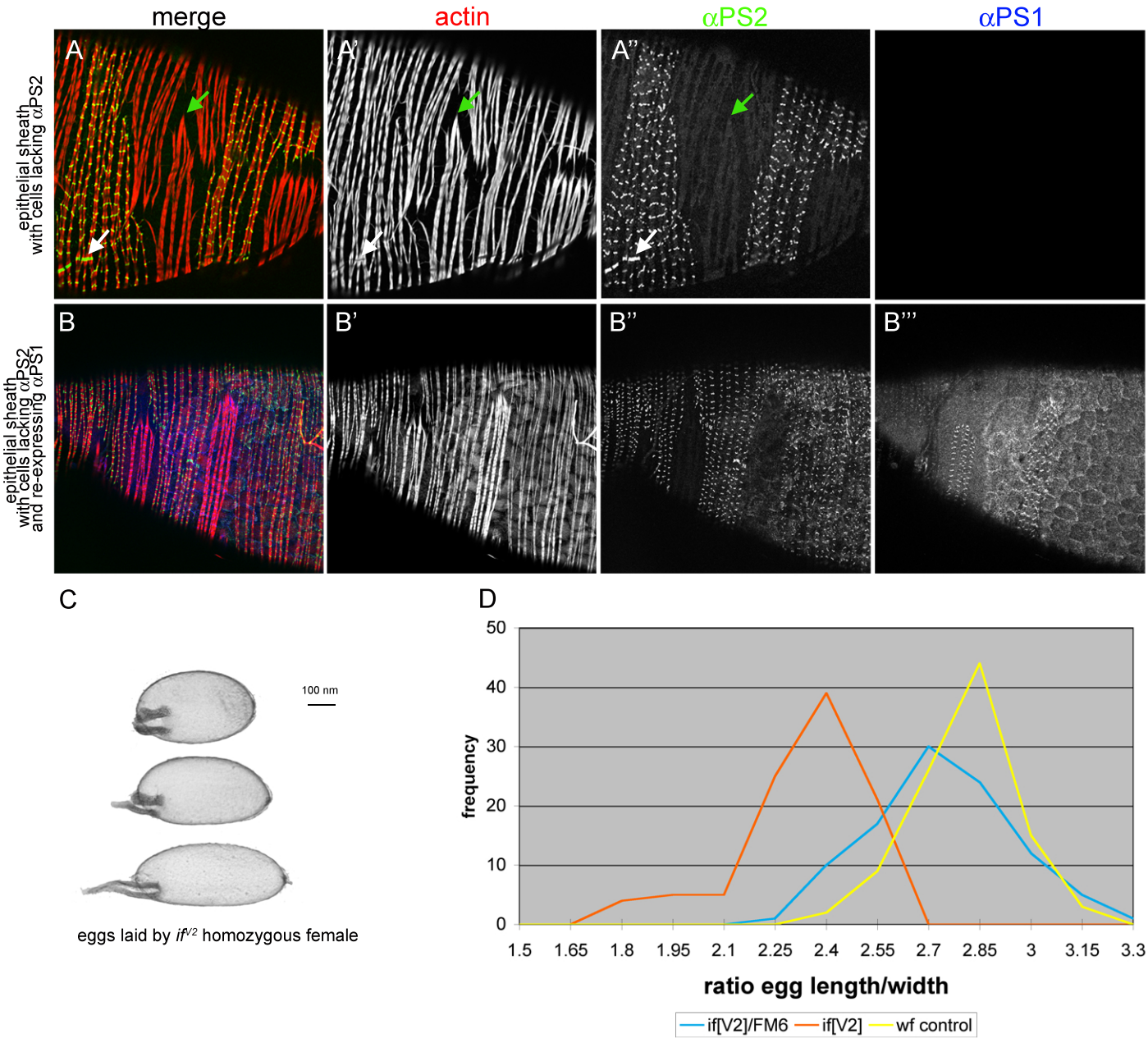

Figure S4. αPS2 function in epithelial sheath muscles and egg elongation

(A-A") Clones of cells lacking αPS2 were induced in single cell muscles of the epithelial sheath. Mutant cells had no αPS2 (green, A") and the actin (red, A') detached from the ends of the muscles (white arrow shows muscle-muscle attachment of wild type cells and green arrow a muscle detached). (B-B"') Re-expressing αPS1 (blue, B") in cells lacking αPS2 (green, B") did not rescue the detachment and induced an increase in actin levels (red, B'). (C) Eggs produced by females homozygous for the if^{V2} viable allele range from fully elongated to round. (D) Quantitation of the shape of eggs produced by if^{V2} homozygous, if^{V2}/FM6 and *wild type (wf)* females were mounted in PBS and measured with ImageJ. The ratio of length/width were plotted against the frequency (n=100 for each genotype). Compared to the controls, eggs produced by if^{V2} homozygous females were rounder. p [if^{V2}/ if^{V2}/FM6]=1.077E-35, p [*wf*/ if^{V2}/FM6]=0.017 (t-test two samples assuming equal variance).