

**Figure 35. Bves expression during lens formation in the chick.** (A) This diagram depicts lens morphogenesis and development. (B-D, scale bar = 100  $\mu$ m) Bves (green, B) and E-cadherin (red, C) expression overlap (yellow, D) in the apical region of the epithelial lens vesicle at stage 18. (E-G, scale bar = 50  $\mu$ m) As the posterior lens epithelium pushes up into the vesicle lumen and begins to elongate, Bves (green, E) expression remains apical and colocalizes with E-cadherin (red, F), overlap in staining is shown in yellow (G). Blue box in the diagram shows the area of the day 3 lens shown in E-G. (H-J, scale bar = 100  $\mu$ m) As the posterior lens at day 4 differentiates into fiber cells, Bves (green) expression is restricted to the anterior epithelium. Expression of E-cadherin in the differentiating lens is shown in red (I), and overlap with Bves is shown in yellow (J). (K-M, scale bar = 10  $\mu$ m) A higher power magnification of the anterior lens epithelium demonstrates the extensive but not complete overlap of Bves and E-cadherin staining. DAPI (blue) was used to stain nuclei.

