



Supplementary Figure 1

Phase-contrast and fluorescence images of lampbrush W-chromosome spreads

(a,f,k) Images of chicken Z–W lampbrush bivalents in phase contrast, oriented with the terminal giant lumpy (TGL) loops and the W chromosome at the top and the Z chromosome at the bottom. Scale bar, 10 μm . (b,g,l) FISH localization of BAC probes (red) on the same lampbrush chromosomes counterstained with DAPI (blue). (c–e,h–j,m–o) Magnification showing the DAPI-intense chromomeres of the W chromosome (c,h,m), the BAC hybridization signal (d,i,n), and the merged image (e,j,o). Chromomere 1 is furthest from the chiasma, and chromomere 7 is adjacent to the chiasma. CH261-75N4 localizes to chromomere 2 (b,e), CH261-107E4 localizes to chromomere 4 (g,j), and CH261-114G22 localizes to chromomere 7 (l,o).