The alternative (“fusion”) scenario of duplication and rearrangement history for VAC “A” according to the N-model. While the number and identity of post-2R daughter chromosomes in both scenarios (see Figure 2 in main text for the other scenario) is the same, the introduction of a fusion event (red box) and elimination of a fission event (red boxed in Figure 2, main text) in this scenario results in two pre-2R chromosomes (A-I and A-II) each carrying one gene (a ligand gene on one, and a receptor gene on the other). Notice that according to this scenario AncRln-like was not syntenically linked to AncRxfp3/4 in the pre-2R vertebrate ancestor.