





**Supplemental Figure S11. Local distributions of ARs for each hummingbird AR hotspot in Fig. 4C.** Each region follows the following format: chromosomal position, annotated protein coding genes (blue), exact locations of hummingbird ARs (grey), density of hummingbird ARs per 100kb measured every 10kb (pink). Vocal learning candidate genes discussed in the text located within a hotspot are indicated in the subfigure name after the chromosome position (ie Chr Z:47600000-48600000 *EFNA5*).