

Supplemental Figure S14 – Screenshots from the UCSC Genome Browser show regions of NLE 20 (A) and NLE 14 (B) where the rearrangements generated new TADs in gibbon. TAD boundaries are indicated by the red bars and BOS by black blocks. On NLE 20 the inversion brought together genes *HMX1* and *ADRA2C* implicated in regulating the function of sympathetic neurons (shown in the highlighted and zoomed-in box). On NLE 14 the inversion joined two genes of the RAS oncogene GTPases (*RAB37* and *RAB40B*, red boxes). In this case only one TAD boundary is indicated as the BOS is close to the end of the chromosome.