

Description of Additional Supplementary Files:

Supplementary Movie 1: “3D Visualization of Upstream Inputs to Bar^{Penk}. Related to Fig. 8. A 3D reconstruction of the whole brain, cleared and stained using the iDISCO+ protocol, showing Bar^{Penk} starter cells (red spheres) and RVdG-labeled upstream neurons (green spheres). The video first displays a 360° rotation from a lateral view, followed by a walkthrough in coronal orientation progressing caudal to rostral. Tissue autofluorescence provides structural context. Scale bar shown in lower left corner.”

Supplementary Software 1: “Supplementary Software 1”. A.txt file containing custom MATLAB scripts, including portions adapted from Doric analysis scripts, used to process, analyze, and visualize fiber photometry data acquired simultaneously with cystometry recordings.”