

Fig. S3 Uncovering characteristic gene expression along the mediolateral axis of the developing human spinal cord. a Visualization of imputed gene expression profiles in developing human spinal cord with individual cells represented as dots and colored based on expression levels (red, high; gray, low). b The distribution of cells within the 18 unsupervised clusters is visualized. The cells from distinct clusters are colored differentially. c The correlation between the 18 unsupervised clusters and the 5 spatial domains is visualized by a heatmap. d A heatmap showcasing the expression profiles of DEGs between cells located in region 1 and regions 4 and 5 of the developing human spinal cord is presented herein, accompanied by the enriched gene ontology terms for the aforementioned DEGs. e Spatially-resolved laminar gene expression profiles along the medial-lateral axis are shown in this visualization. Each dot corresponds to an individual cell, color-coded based on its expression level (red, high; gray, low). The leftmost column provides a zoomed-in view of the boxed area. f The immunostaining for VGLUT2 and

PAX2 across distinct spinal segments are visualized to illustrate the presence of the sandwich-like neuronal structure across the entire developing human spinal cord.