## Disease-risk & Patterning Center marker genes' expression Minimum expression shown: 10% of cells GE NSC enIPC gIPC CR LYN FGF8 SLC35D2 EFHD1 SPATA33 SLC7A6 SLC7A5 SLC29A4 SAMD11 ORAI3 MYB MET MECOM KCNJ13 GRM8 EMB CNN2 CGNL1 CADPS2 BCAM ADA WNT4 WNT3 SHOX2 RNF43 CA14 ExN SOX5 SYT6-EXN SOX5 KCNV1-EXN SOX5 OPRK1 NR4A2-EXN SOX5 OPRK1 SULF1-EXN CUX2 PALMD-EXN CUX2 ADRA2A-EXN CUX2 ACTN2-EXN TSHZ2 NR4A3-EXN TSHZ2 NR4A3-IPC RSP03 NEUROG1-IPC RSP03 NHLH1-CR ETV1-CR TP73-GR TP73-GE CR ZFHX3gIPC EGFR-gIPC EGFR MKI67-aIPC IGFBP2-oIPC DLL1-Astro EGFR-Astro GFAP-Astro MFGE8-Microglia PTPRC C1QC-T PTPRC CD69-IPC TCF7L2 Neu TAGLN3 NRN1 Neu TAGLN3 ONECUT2 Mesenchymal LUM CYTL1 Mesenchymal FOXD3 PLP1

## Cell subtype

inIPC

inIPC

N N

InN LHX

N N N

Inn NR In

InN SP8

GE RG HMG/ GE RG HMC GE RG HO GE RG H GE RG ST

ExN SOX5

VLMC P

