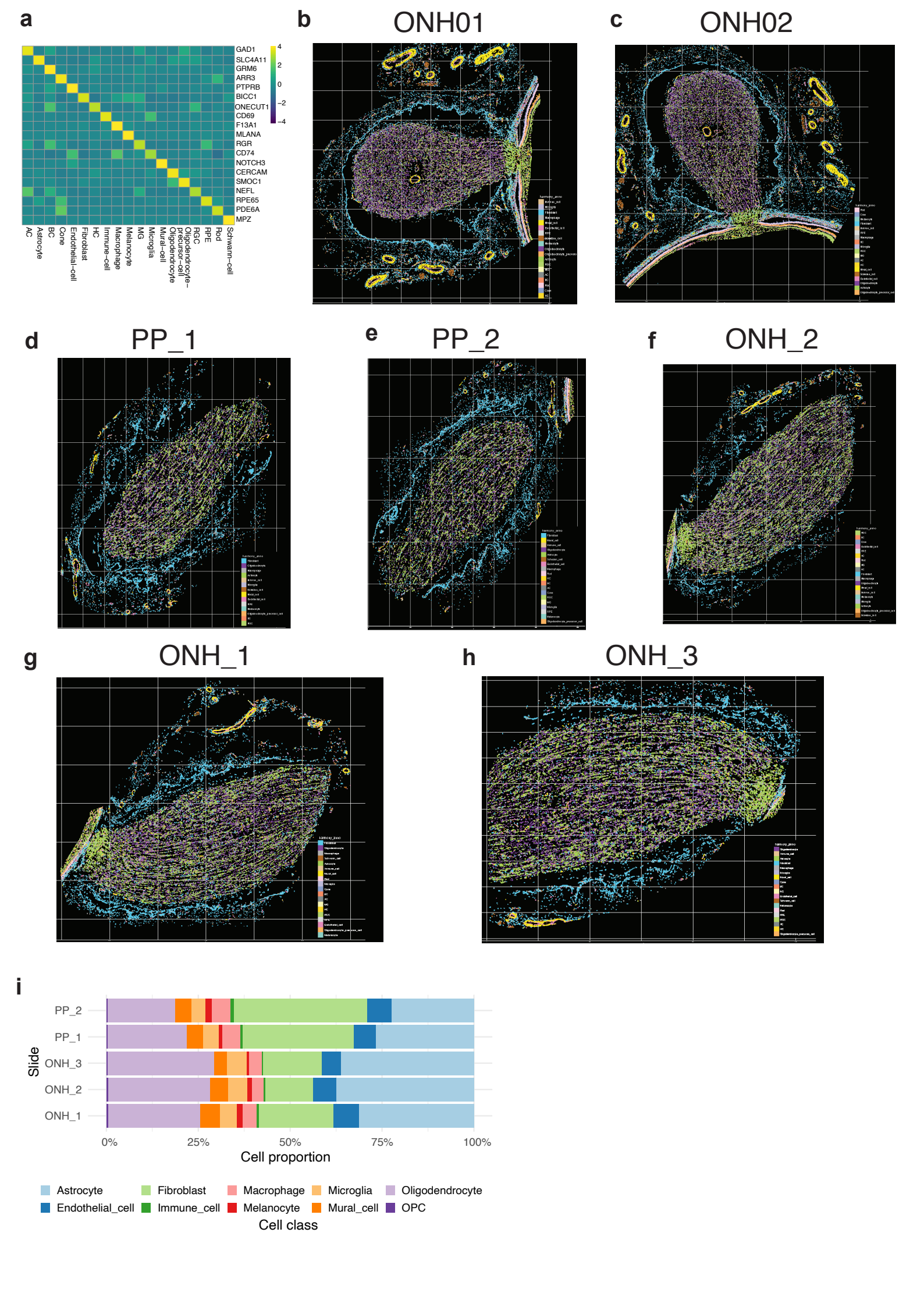
a
GAD1
SLC4A11
GRM6
ARR3
PTPRB
BICC1
ONECUT1
CD69
F13A1
MLANA
RGR
CD74
NOTCH3
CERCAM
SMOC1
NEFL
RPE65
PDE6A
MPZ
4
2
0
−2
−4
AC
Astrocyte
BC
Cone
Endothelial_cell
Fibroblast
HC
Immune_cell
Macrophage
Melanocyte
MG
Microglia
Mural_cell
Oligodendrocyte
Oligodendrocyte_precursor_cell
RGC
RPE
Rod
Schwann_cell
b
ONH01
c
ONH02
d
PP_1
e
PP_2
f
ONH_2
g
ONH_1
h
ONH_3
i
PP_2
PP_1
ONH_3
ONH_2
ONH_1
Slide
0%
25%
50%
75%
100%
Cell proportion
Astrocyte
Endothelial_cell
Fibroblast
Immune_cell
Macrophage
Melanocyte
Microglia
Mural_cell
Oligodendrocyte
OPC
Cell class

Extended Data Figure 4. Cell type annotation for Xenium data.
a, Heatmap showing expression of marker genes across cell classes in the Xenium data. **b,** Image Dim plot showing the spatial distribution of cells in the Xenium slide “ONH01”. **c,** Image Dim plot showing the spatial distribution of cells in the Xenium slide “ONH02”. **d,** Image Dim plot showing the spatial distribution of cells in the Xenium slide “PP_1”. **e,** Image Dim plot showing the spatial distribution of cells in the Xenium slide “PP_2”. **f,** Image Dim plot showing the spatial distribution of cells in the Xenium slide “ONH_2”. **g,** Image Dim plot showing the spatial distribution of cells in the Xenium slide “ONH_1”. **h,** Image Dim plot showing the spatial distribution of cells in the Xenium slide “ONH_3”. **i,** Cell proportion distribution across Xenium slides.