

Supplementary Table 1. Demographic information for subjects providing tissue samples.

Case Number	Age (years)	Gender	Experimental Use	Clinical History
1	41	F	IHC, scRNA-seq	Pituitary adenoma
2	52	M	IHC, scRNA-seq	Esthesioneuroblastoma (contralateral, intracranial)
3	44	F	IHC, scRNA-seq	Pituitary adenoma
4	50	F	scRNA-seq	Pituitary adenoma
5	39	F	IHC	Pituitary adenoma
6	47	M	IHC	Pituitary adenoma
7	23	F	IHC	Pituitary adenoma

Supplementary Table 11. Antibodies used for immunohistochemistry.

REAGENT	SOURCE	IDENTIFIER	LOT#	DILUTION
Mouse anti-TUJ1	BioLegend	Cat# 801201; AB_2313773	B264428	1:500
Rat anti-SOX2	eBioscience	Cat# 14-9811-82; AB_11219471	2023691	1:50
Rabbit anti-SOX2	Cell Signaling Technology	Cat# 3579; AB_2195767	01/2014 Lot:5	1:50
Rabbit anti-KRT5	Abcam	Cat# ab52635; AB_869890	GR3198825-2	1:1000
Rabbit anti-LHX2	Millipore	Cat# ABE1402; AB_2722523	3030529	1:500
Rabbit anti-GNG13	Sigma	Cat# HPA046272; AB_10960062	R42082	1:150
Rabbit anti-Ki67	Abcam	Cat# ab15580; AB_443209	GR3293897-3	1:250
Rabbit anti- Doublecortin	Cell Signaling Technology	Cat# 4604; AB_561007	08/2018 Lot:5	1:200
Mouse anti-OMP	Santa Cruz Biotechnology	Cat# sc-365818; AB_10842164	E1117	1:500
Goat anti-OLIG2	R&D Systems	Cat# AF2418; AB_2157554	UPA0717121	1:500
Mouse anti-TP63	Santa Cruz Biotechnology	Cat# sc-5301; AB_628093	D2519	1:100
AlexaFluor 594 Goat anti-Mouse	Jackson ImmunoResearch	Cat# 115-585-146; AB_2338881	109495	1:100
AlexaFluor 488 Donkey anti-Mouse	Jackson ImmunoResearch	Cat# 715-545-150; AB_2340846	113699	1:100
AlexaFluor 594 Goat anti-Rabbit	Jackson ImmunoResearch	Cat# 111-585-144; AB_2307325	106684	1:100
AlexaFluor 488 Donkey anti-Rat	Jackson ImmunoResearch	Cat# 712-545-150; AB_2340683	113383	1:100
AlexFluor 488 Donkey anti-Goat	Jackson ImmunoResearch	Cat# 705-545-147; AB_2336933	115940	1:100