

Supplementary Table 6. Selected genes enriched¹ in ACP or ACV neurons arranged by function

Known or predicted function	ACP	ACV
Transcription factor	<i>Tbx2, Onecut1, Onecut3, Eya4, Pou4f1</i>	<i>Hoxa5, Hoxc4, Hoxb5, Hoxc5</i>
Neuronal development	<i>Tenm1, Mab21l2, Plxdc2</i>	<i>Adamts18</i>
Neurite outgrowth	<i>Dpy19l1</i>	<i>Cd9, Socs2, Dgkg</i>
Neuron repulsion	<i>Megf11</i>	
Axon outgrowth	<i>Rasgrf1</i>	
Axon guidance	<i>Sema3d, Sema3c, Ptprd, Rgmb, Gfra2, Ntng2, Dcc</i>	<i>Gfra1</i>
Cell adhesion	<i>Cntn4, Pcdh18, Cldn1, Pcdh10, Cdh2, Cbln2, Cntn3, Cntn6</i>	<i>Ctnna2, Cd24a, Cd44</i>
Synapse formation	<i>Slitrk5</i>	
Motor neuron survival	<i>Lifr</i>	<i>Arg1</i>
Ion channel	<i>Kcnn2, Kcnj12</i>	<i>Ano2</i>
Calcium buffer	<i>Calb1</i>	
Neuropeptide	<i>Uts2b</i>	
Neuropeptide receptor	<i>Trhr, Tacr3, Mc4r, Cckbr, Agtr1b</i>	<i>Sstr5, Sstr2, P2ry1</i>
Circulating hormone receptor		<i>Ghsr, Rxfp2, Lepr</i>
Neuropeptide degrading enzyme	<i>Trhde</i>	
Neurotransmitter receptor	<i>Gabre, Gabrq, Adra2a</i>	<i>Htr3b</i>
Nonspecific cholinesterase		<i>Bche</i>
Regulation of neurotransmitter signaling	<i>Tmem163, Agtrap</i>	
Synaptic vesicle release	<i>Sv2b</i>	
Synaptic plasticity		<i>Akap7</i>
Protease	<i>Pappa2</i>	
Thyroid hormone transporter	<i>Slc16a2</i>	
Extracellular matrix	<i>Sgcz</i>	
Cytoskeletal regulation	<i>Avil</i>	
lncRNA	<i>Gm16551</i>	
Other signaling	<i>Thsd7a, Gulp1, Csm1, Rgs8, Bambi</i>	<i>Plcb4, Adcy8, Igf1, Dlc1, Mfng, Tspan18</i>
Unknown function	<i>D930028M14Rik, Slc35f4, Tmem47, Lcp1, Lancl3, Vwa7</i>	<i>Parm1, Pacrg, Cpne8, Thsd7b, Susd5, Tmem178, Egfem1, Il17f</i>

¹ Boldface genes were not expressed in Amb^{Laryngeal} neurons