ABA23 HYP hmap185 clusters to singleSpDomains C185\_99\_Piezo2.Lhx6.GABA\_1 C185\_98\_Pbx3.Lhx6.GABA\_1 C185\_97\_St18.Lhx6.GABA\_1 C185\_96\_Ppp1r17.GABA\_1 C185\_95\_Nts.Crh.GABA\_1 C185\_94\_Gal.Crh.GABA\_1 C185\_93\_Zfp804b.Hmcn1.GABA\_1 C185\_92\_Adarb2.Hmcn1.GABA\_1 C185\_91\_Gal.Hmcn1.GABA\_1 C185\_90\_Reln.Lef1.GABA\_1 C185\_9\_Ebf3.Nxph4.GLU\_2 -C185\_89\_Barhl2.Lef1.GABA\_1 C185\_88\_Sox14.Lef1.GABA\_1 C185\_87\_Fign.Lef1.GABA\_1 C185\_86\_Tmem114.Lef1.GABA\_1 C185\_85\_Pthlh.II1rapl2.GABA\_1 C185\_84\_Epha3.II1rapl2.GABA\_1 C185\_83\_Col6a1.II1rapl2.GABA\_1 C185\_82\_Tbx19.II1rapl2.GABA\_1 C185\_81\_Tnfrsf12a.GABA\_2 -C185\_80\_Aldh3b2.GABA\_2 C185\_8\_Nfia.Nxph4.GLU\_2 -C185\_79\_Cd24a.Lhx1.GABA\_2 C185\_78\_Unassigned.Lhx1.GABA\_2 -C185\_77\_Arx.Lhx1.GABA\_2 C185\_76\_Slc6a3.Onecut2.GABA\_2 C185\_75\_Pmfbp1.Onecut2.GABA\_2 -C185\_74\_Onecut3.Onecut2.GABA\_2 C185\_73\_Cck.Vipr2.GABA\_2 -C185\_72\_Fam122b.Vipr2.GABA\_2 -C185\_71\_Vip.Vipr2.GABA\_2 C185\_70\_Otx2.Mixed.GABA\_2 -C185\_7\_Stk26.Nxph4.GLU\_2 -C185\_69\_Pvalb.Mixed.GABA\_2 C185\_68\_C1ql2.Mixed.GABA\_2 C185\_67\_Pnoc.Mixed.GABA\_2 -C185\_66\_Unassigned.Mixed.GABA\_2 C185\_65\_Unassigned.Mixed.GABA\_2 -C185\_64\_Meis2.Mixed.GABA\_2 -C185\_63\_Thrsp.Mixed.GABA\_2 -C185\_61\_Prkch.GLU\_8 -C185\_60\_Epha8.Foxb1.GLU\_8 -C185\_6\_Rxfp1.lrx5.GLU\_2 -C185\_59\_Fign.Foxb1.GLU\_8 -C185\_58\_Postn.Foxb1.GLU\_8 -C185\_57\_Nts.Foxb1.GLU\_8 -C185\_56\_Pmch.GLU\_7 C185\_55\_Unassigned.Mixed.GLU\_6 -C185\_54\_Oxt.Caprin2.GLU\_6 -C185\_53\_Ebf3.Caprin2.GLU\_6 -C185\_52\_Bace2.GLU\_5 -C185\_51\_Tac2.GLU\_5 -C185\_50\_Ttr.Pomc.GLU\_5 -C185\_5\_Nts.Irx5.GLU\_2 -C185\_49\_Glipr1.Pomc.GLU\_5 -C185\_48\_Anxa2.Pomc.GLU\_5 -C185\_47\_Hcrt.Rfx4.GLU\_4 -C185\_46\_Qrfp.Rfx4.GLU\_4 -C185\_45\_Npvf.Rfx4.GLU\_4 -C185\_44\_Lpar1.GLU\_4 -C185\_43\_Cped1.Mixed.GLU\_4 -C185\_42\_Lhx9.Mixed.GLU\_4 C185\_41\_Lef1.Mixed.GLU\_4 -C185\_40\_Adcyap1.GLU\_3 -C185\_4\_Pitx2.lrx5.GLU\_2 -C185\_39\_Prdm12.Tcf4.GLU\_3 -C185\_38\_Nfia.Tcf4.GLU\_3 -C185\_37\_Prdm13.Tcf4.GLU\_3 -C185\_36\_Vcan.GLU\_3 -C185\_35\_C1ql2.Gpr149.GLU\_3 -C185\_34\_Sparc.Gpr149.GLU\_3 -C185\_33\_Fezf1.Gpr149.GLU\_3 -C185\_32\_Bcl11b.Gpr149.GLU\_3 C185\_31\_Tcf7l2.Gpr149.GLU\_3 -C185\_30\_Hmcn2.Gpr149.GLU\_3 -C185\_3\_NSCs -C185\_29\_ligp1.Cd40.GLU\_3 -C185\_28\_Cbln4.Cd40.GLU\_3 -C185\_27\_Nts.Cd40.GLU\_3 -C185\_26\_Moxd1.Cd40.GLU\_3 C185\_25\_Satb2.Cd40.GLU\_3 -C185\_24\_Mc4r.Fezf1.GLU\_3 -C185\_23\_Arhgap36.Fezf1.GLU\_3 -C185\_22\_Unassigned.Fezf1.GLU\_3 -C185\_21\_Sln.GLU\_2 -C185\_20\_Lmx1a.GLU\_2 -C185\_2\_Otx1.GLU\_1 -C185\_19\_Foxb1.GLU\_2 -L C185\_184\_Slc47a1.Dcn.Fibroblasts -C185\_183\_Slc6a13.Dcn.Fibroblasts -C185\_182\_Angptl1.Dcn.Fibroblasts -C185\_180\_Meox1.Endothelial C185\_18\_Meis2.Samd3.GLU\_2 -C185\_179\_Sema3g.Endothelial -C185\_178\_Vtn.Endothelial C185\_177\_Slco1a4.Endothelial C185\_176\_Acta2.Mural -C185\_175\_Kcnj8.Mural -C185\_174\_Anxa1.ParsTuber C185\_173\_Cga.ParsTuber -C185\_171\_Ms4a4b.Immune -C185\_170\_F13a1.Immune -C185\_17\_Gng8.Samd3.GLU\_2 -C185\_169\_Ch25h.Tmem119.Immune -C185\_168\_Tyrobp.Tmem119.Immune C185\_167\_Top2a.Tmem119.Immune -C185\_166\_Ccl4.Tmem119.Immune -C185\_165\_Wfdc17.Tmem119.Immune -C185\_164\_P2ry12.Tmem119.Immune -C185\_163\_Selplg.Tmem119.Immune C185\_162\_Tyrobp.OPC -C185\_161\_Cspg4.OPC -C185\_160\_Dividing.OPC C185\_16\_Tent5a.GLU\_2 -C185\_159\_Pdgfra.OPC -C185\_158\_C1ql1.OPC -C185\_156\_Bmp4.Gpr17.Oligodendrocytes -C185\_155\_Cnksr3.Gpr17.Oligodendrocytes -C185\_154\_Hspa1a.Ermn.Oligodendrocytes -C185\_153\_Ctps.Ermn.Oligodendrocytes -C185\_152\_Mal.Ermn.Oligodendrocytes -C185\_151\_Arhgap45.Ermn.Oligodendrocytes -C185\_150\_Klk6.Ermn.Oligodendrocytes -C185\_15\_Ucn3.Trh.GLU\_2 -C185\_149\_Opalin.Ermn.Oligodendrocytes -C185\_148\_Pex5l.Ermn.Oligodendrocytes -C185\_147\_Gfap.Lgals3.Astrocytes C185\_146\_Myt1l.Lgals3.Astrocytes -C185\_145\_Myoc.Etnppl.Astrocytes -C185\_144\_Gfap.Etnppl.Astrocytes -C185\_143\_Crym.Etnppl.Astrocytes -C185\_142\_Unassigned.Etnppl.Astrocytes -C185\_141\_Trpm3.Etnppl.Astrocytes -C185\_140\_Gjb6.Etnppl.Astrocytes -C185\_14\_Syt2.Trh.GLU\_2 -C185\_139\_Itih3.Etnppl.Astrocytes -C185\_135\_Cdhr4.Ependymal C185\_134\_Frzb.Tanycytes C185\_133\_Prr16.Tanycytes -C185\_132\_Tgfb2.Tanycytes C185\_131\_Scn7a.Tanycytes C185\_130\_Chat.GABA\_7 -C185\_13\_Ebf2.Trh.GLU\_2 -C185\_129\_Nr5a2.Satb2.GABA\_6 -C185\_128\_Slc6a3.Satb2.GABA\_6 -C185\_127\_Nfix.Satb2.GABA\_6 -C185\_126\_Tac1.Meis2.GABA\_5 -C185\_125\_Adora2a.Meis2.GABA\_5 -C185\_124\_Ccn1.Meis2.GABA\_5 C185\_123\_Bcl11b.Meis2.GABA\_5 -C185\_122\_Satb1.Meis2.GABA\_5 C185\_121\_Abi3bp.Meis2.GABA\_5 -C185\_120\_Pou3f1.Sst.GABA\_4 -C185\_12\_Ebf1.Trh.GLU\_2 -C185\_119\_Nts.Sst.GABA\_4 -C185\_118\_Otp.Sst.GABA\_4 -C185\_117\_Npy.Sst.GABA\_4 C185\_116\_Lepr.Agrp.GABA\_4 -C185\_115\_Npy.Agrp.GABA\_4 -C185\_114\_Ghrh.GABA\_3 -C185\_113\_Nkx2\_4.GABA\_3 -C185\_111\_Tac2.Nts.GABA\_1 -C185\_110\_Gpr50.Nts.GABA\_1 C185\_11\_Cbln2.Trh.GLU\_2 -C185\_109\_Ecel1.Nts.GABA\_1 -C185\_108\_Gal.Nts.GABA\_1 C185\_107\_Zeb2.Lhx8.GABA\_1 C185\_106\_Sox6.Lhx8.GABA\_1 C185\_105\_Lhx6.Lhx8.GABA\_1 C185\_104\_Sytl4.Tbx3.GABA\_1 C185\_103\_Vgll3.Tbx3.GABA\_1 C185\_102\_Hdc.GABA\_1 C185\_101\_lgfbp4.Lhx6.GABA\_1 C185\_100\_Dlx1.Lhx6.GABA\_1 -C185\_10\_Adgrf5.Nxph4.GLU\_2 -C185\_1\_Shox2.GLU\_1 X3  $\frac{\times}{2}$  $\overset{\mathsf{\times}}{8}$ 8 X X variable

value

0.50

0.25

0.00

-0.25

-0.50