H3K4me2 Up Overlap Enrichment DH.Opc **DH.Endo DH.Pericytes** FC.Ogc DH.SMC DH.Ogc FC.Opc FC.Peri DH.Asc DH.Choroid_Plexus FC.Asc FC.Endo FC.Inh.Sema5a.S100a13 FC.Inh.Six3.Def6 DH.Inh FC.Inh.Sst.Pvalb FC.Inh.Vip.Npy DH.Sub_Ent-FC.L5b.Fezf2-DH.CA2-3-DH.DG.Penk-DH.CA1 DH.DG.Card6.1 FC.L4 FC.L2-3 FC.Claustrum DH.DG.Card6.2 FC.L5a.Deptor FC.L6 FC.L5.Parm1 HT.SMC LM.Skm.Fhl3.Cyrm.Ache LM.Skm.Fhl3.Wdr31 LM.SMC LM.Skm.Fhl3.Myh1 HT.CM LM.Skm.Fhl3.3 LM.Skm.Fhl3.2 LM.Skm.Fhl3..1 HT.Tcell LM.Bcell DH.Mcg LM.Macg HT.Macg FC.Mgc LM.neutrophils HT.Bcell HT.Endo.1 LM.Fat HT.Endo LM.Endo HT.FB HT.Fat LM.Kerat LM.MSC LM.FB 20 **Odds** ratio

Clade

Glia

InN

ExN

Muscle

Immune

Other

H3K4me2 Down Overlap Enrichment DH.Endo **DH.SMC** FC.Endo FC.Peri **DH.Pericytes** FC.Opc DH.Choroid_Plexus DH.Ogc FC.Ogc DH.Opc FC.Asc DH.Asc DH.Inh FC.Inh.Six3.Def6 FC.Inh.Sst.Pvalb FC.Inh.Vip.Npy FC.Inh.Sema5a.S100a13 FC.L5b.Fezf2 FC.L5.Parm1 FC.Claustrum DH.DG.Card6.1 DH.DG.Card6.2 FC.L6-DH.DG.Penk DH.Sub_Ent-Clade FC.L5a.Deptor DH.CA2-3 DH.CA1 FC.L2-3 FC.L4 LM.Skm.Fhl3.Cyrm.Ache LM.SMC LM.Skm.Fhl3.3 LM.Skm.Fhl3.Wdr31 LM.Skm.Fhl3.2 LM.Skm.Fhl3.Myh1 LM.Skm.Fhl3..1 HT.CM HT.SMC HT.Bcell FC.Mgc HT.Tcell DH.Mcg HT.Macg LM.Macg LM.neutrophils LM.Bcell LM.MSC HT.Endo HT.Fat LM.Kerat LM.Endo HT.Endo.1 LM.FB LM.Fat HT.FB 30 609020 **Odds** ratio

Glia

ExN

Muscle

Immune

Other

InN