

Figure 1: Pathway expression profiles could recur across diverse cell types

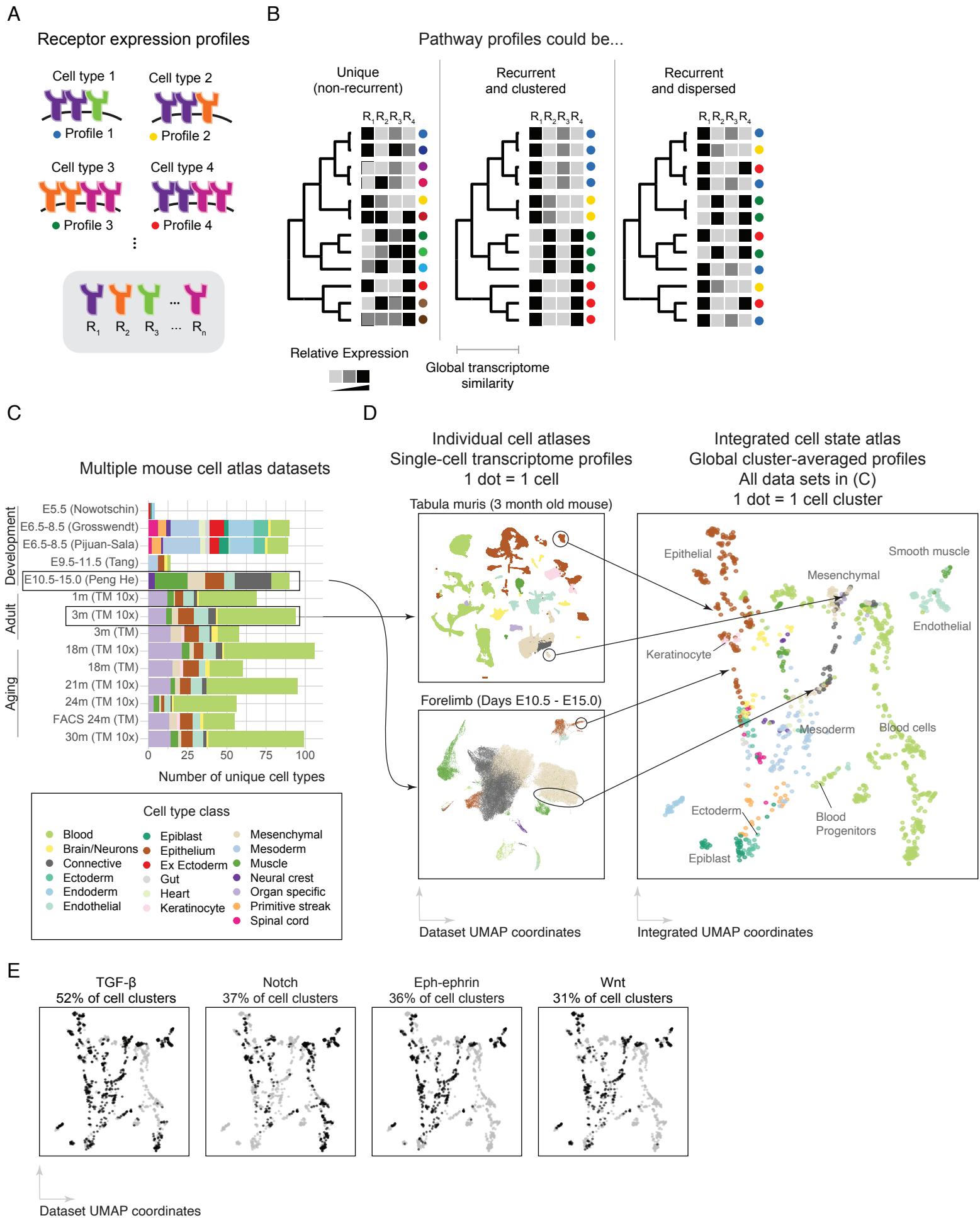


Figure 2: TGF- β Receptors exhibit distinct and recurrent pathway expression profiles

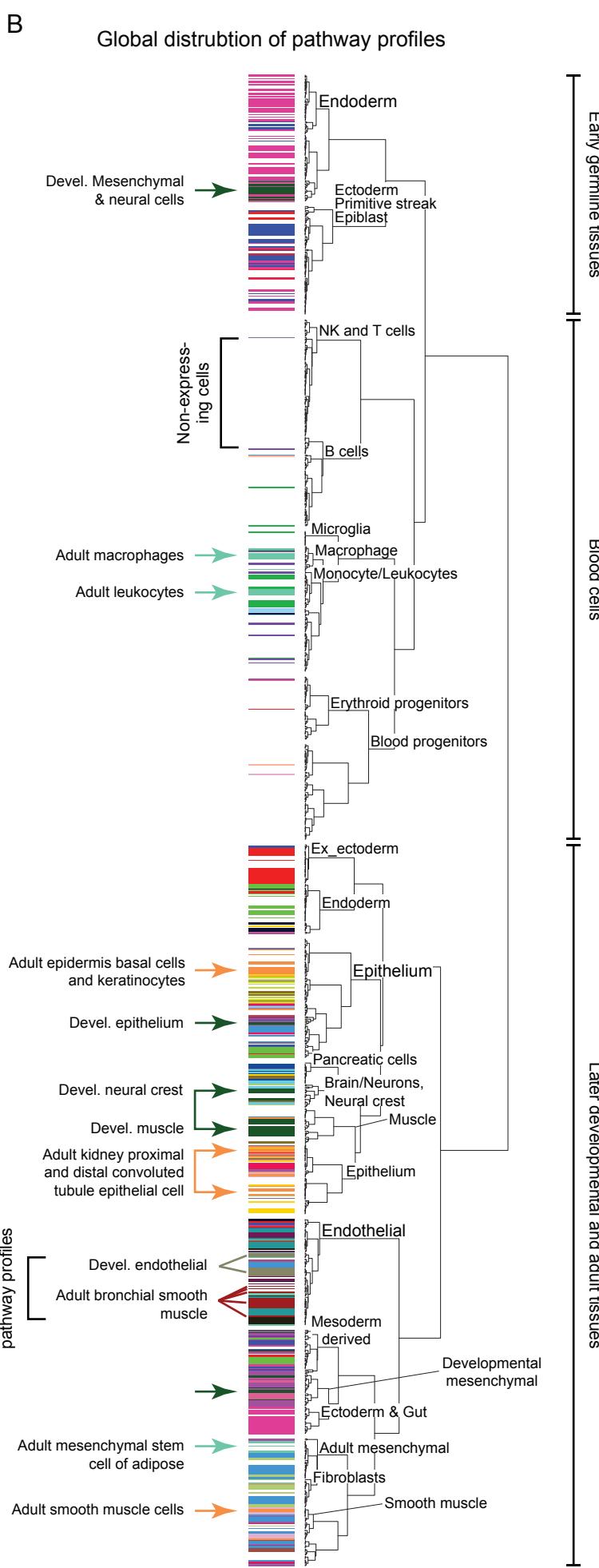
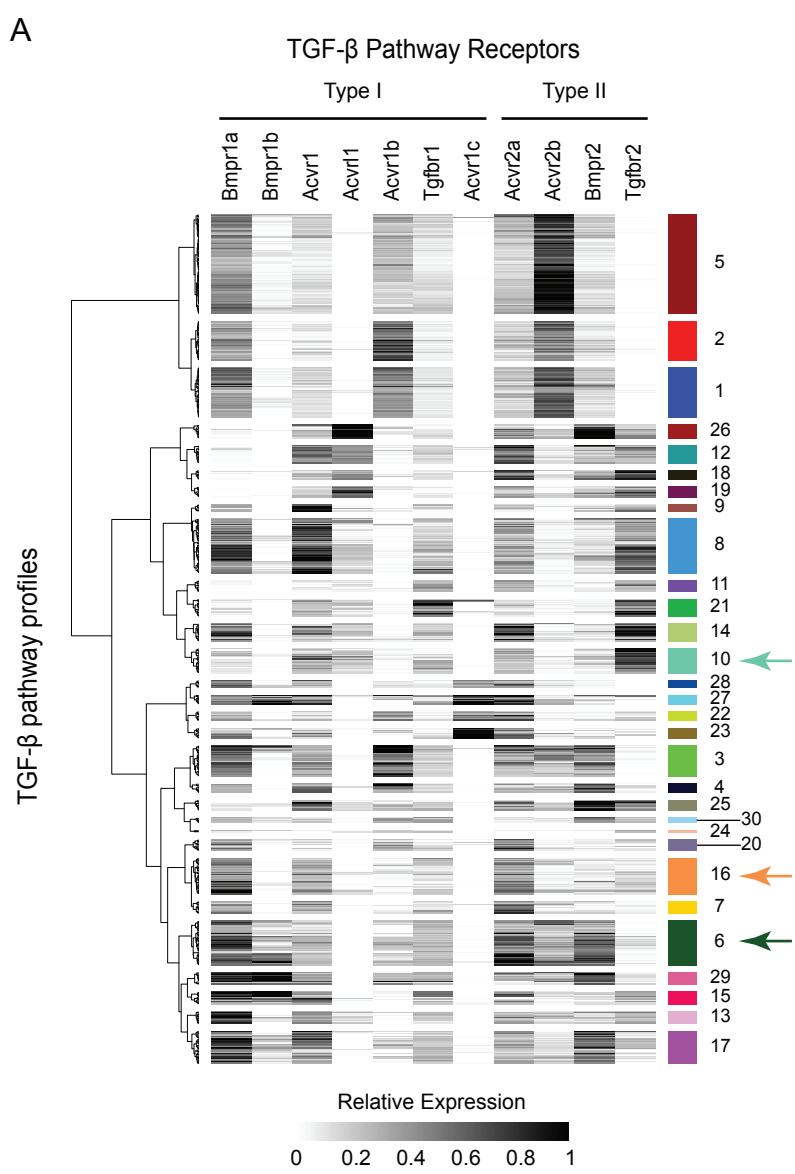
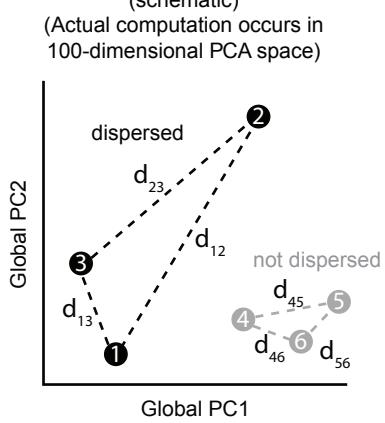
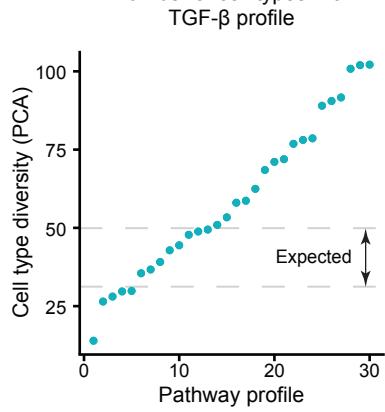


Figure 3: TGF- β expression motifs are dispersed across cell types and organs

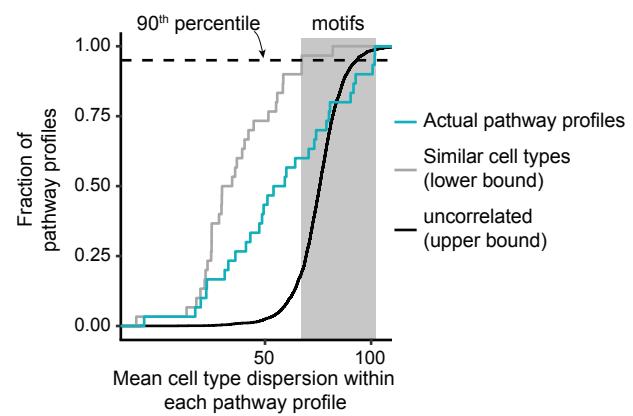
A Pairwise distance computation (schematic)
(Actual computation occurs in 100-dimensional PCA space)



B Number of cell types with TGF- β profile

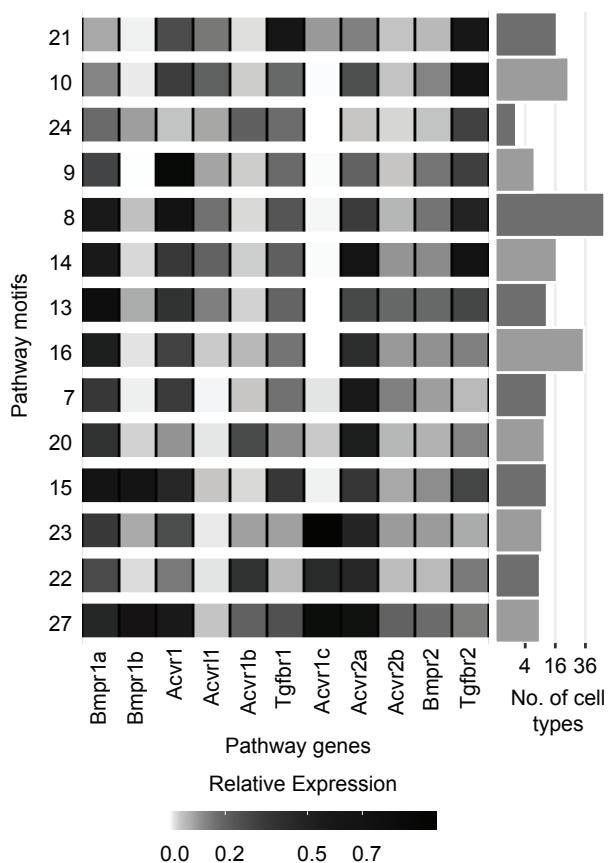


B



C

Broadly Dispersed TGF- β Motifs



D

Broadly Dispersed TGF- β Motifs

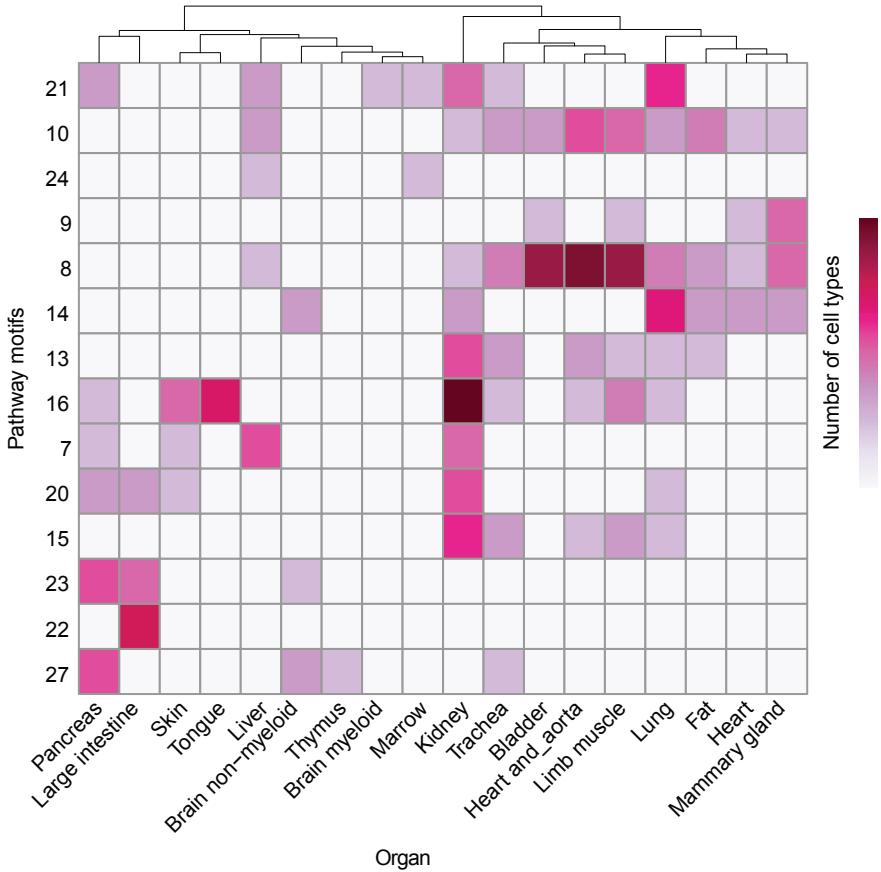
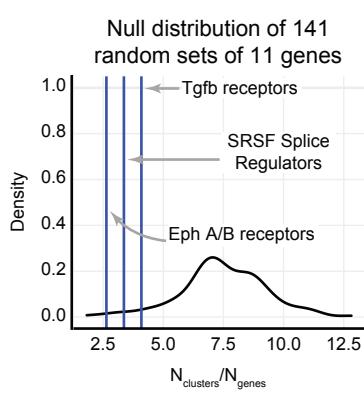
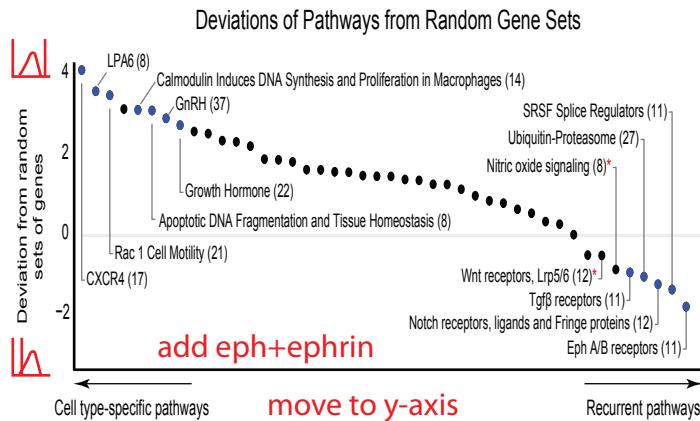


Figure 4: Wnt and Notch also show broadly dispersed recurrent pathway expression motifs

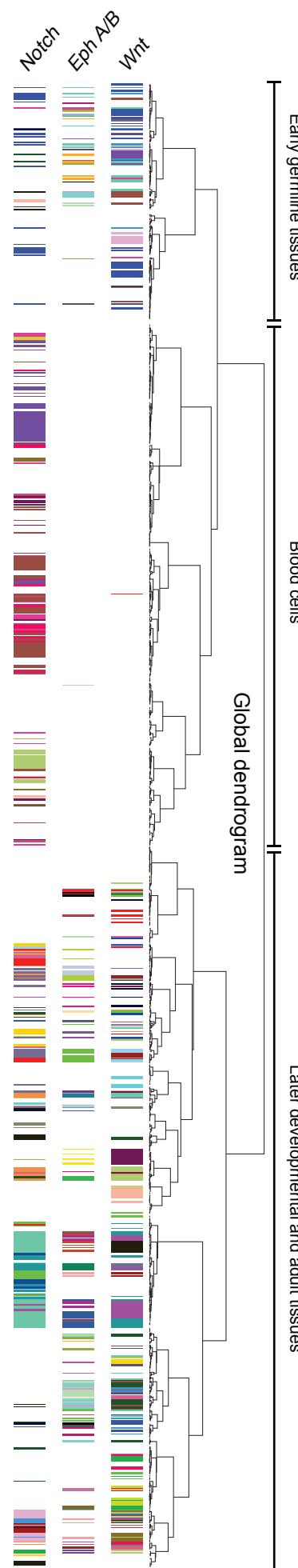
A



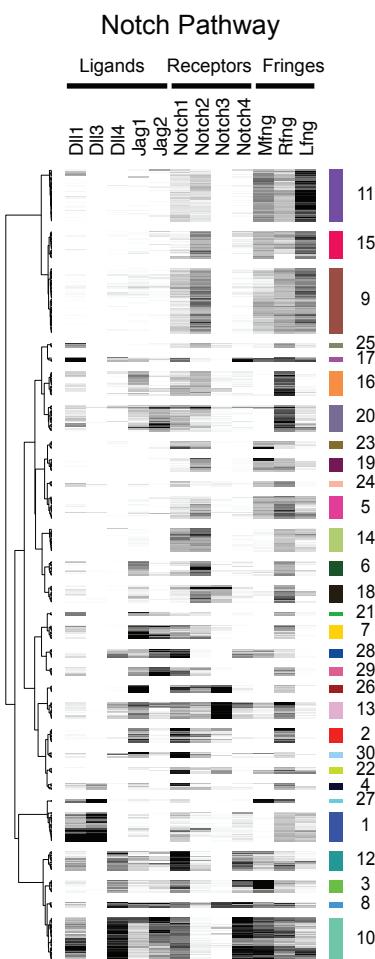
B



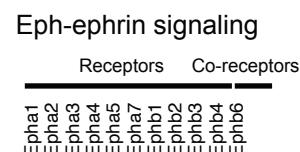
F



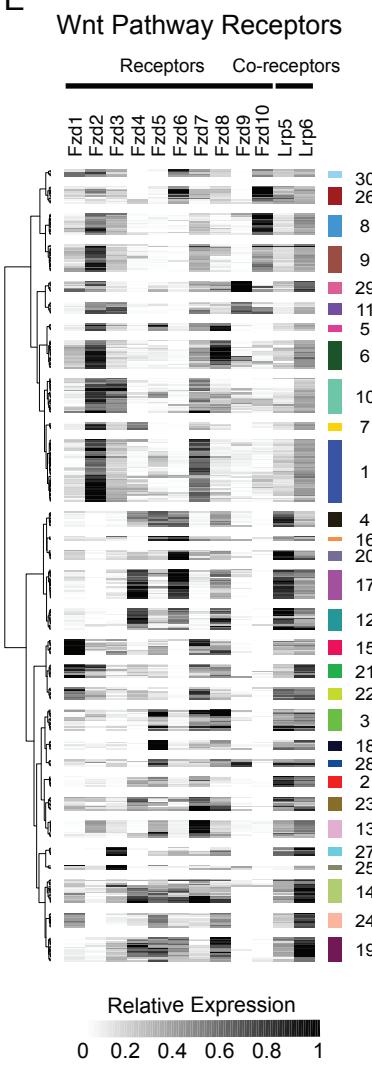
C



D



E



G

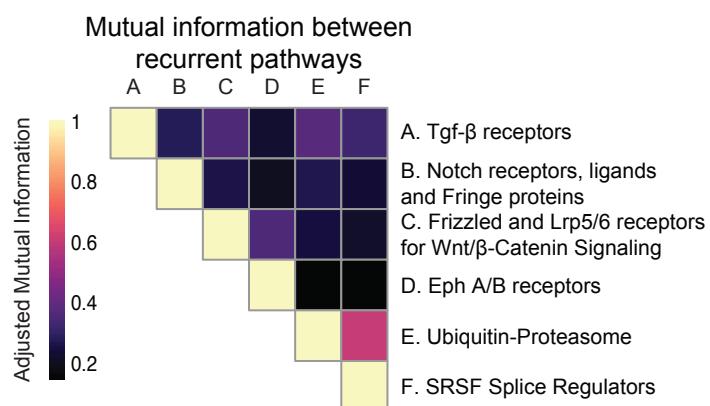
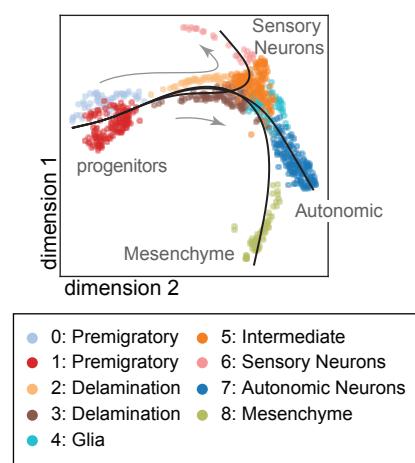


Figure 5:

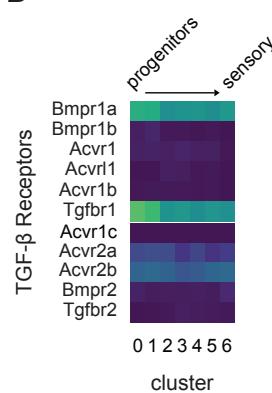
Developmental signaling pathways show distinct dynamics in neural crest differentiation

A

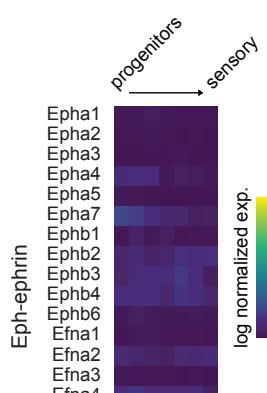
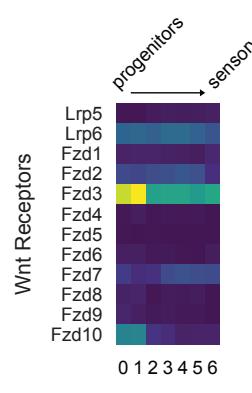
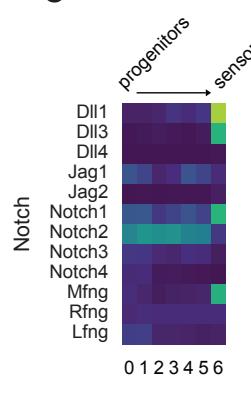
Trunk Neural Crest (E9.5)



B



C

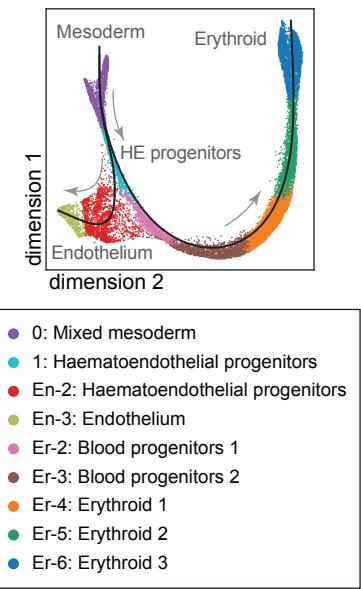


log normalized exp.
0.0 0.5 1.0 1.4

TGF- β shows fate-dependent dynamics in vascular differentiation

D

Early vascular differentiation



E

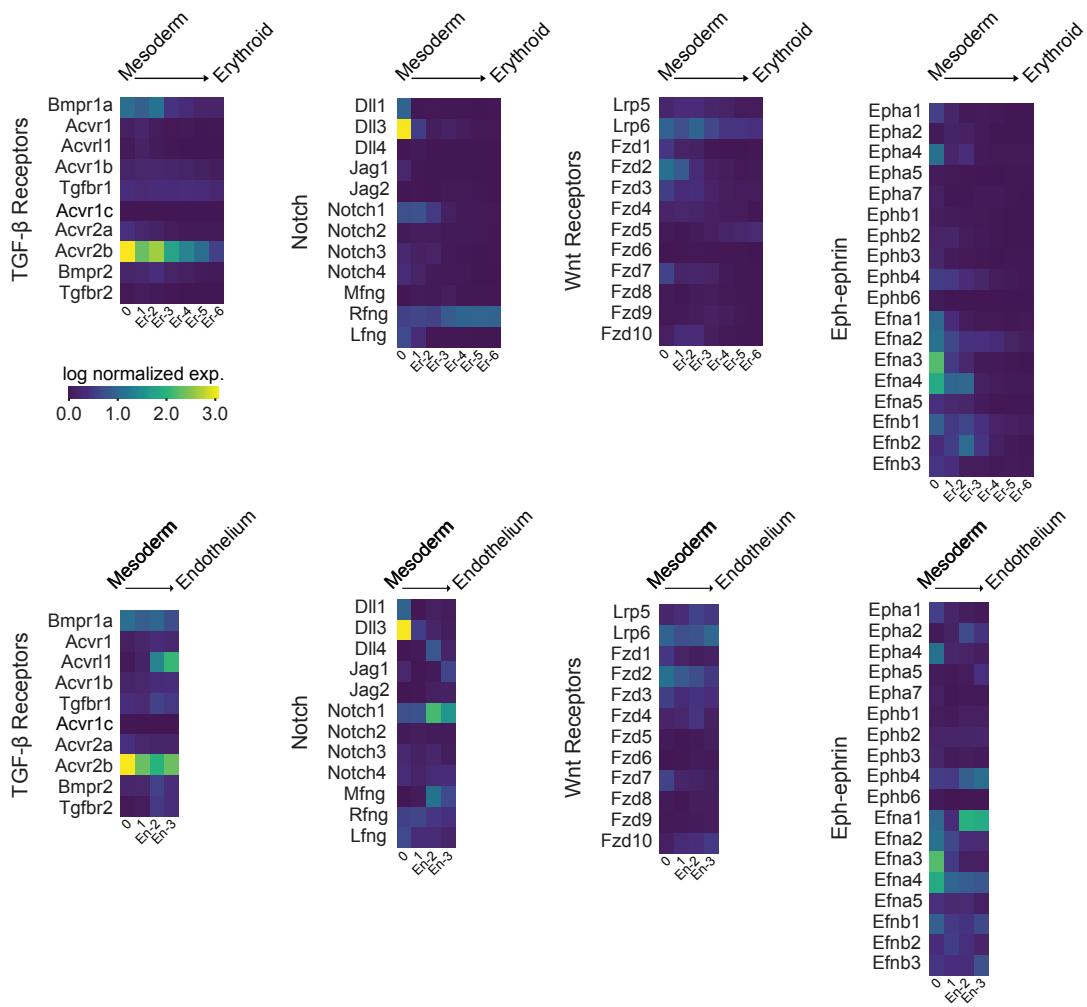
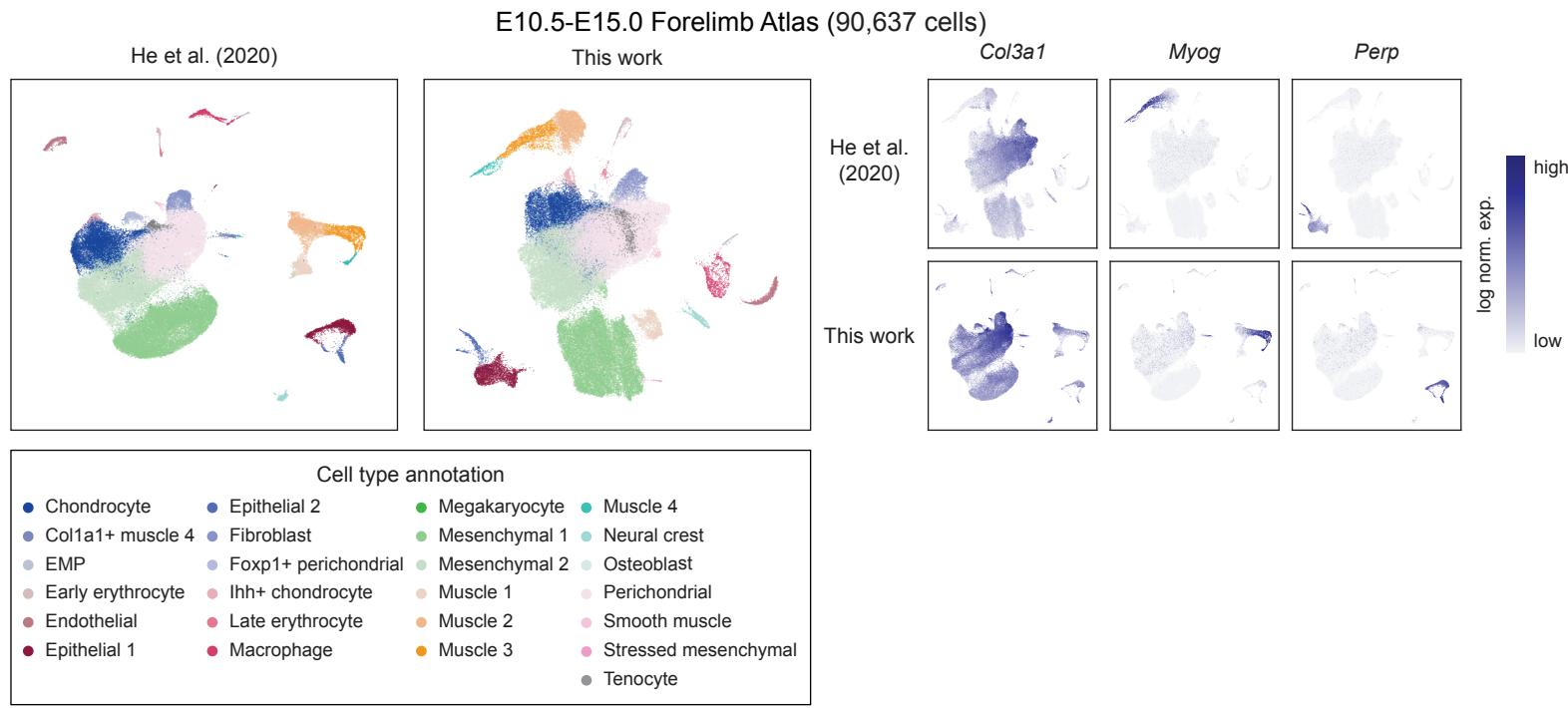
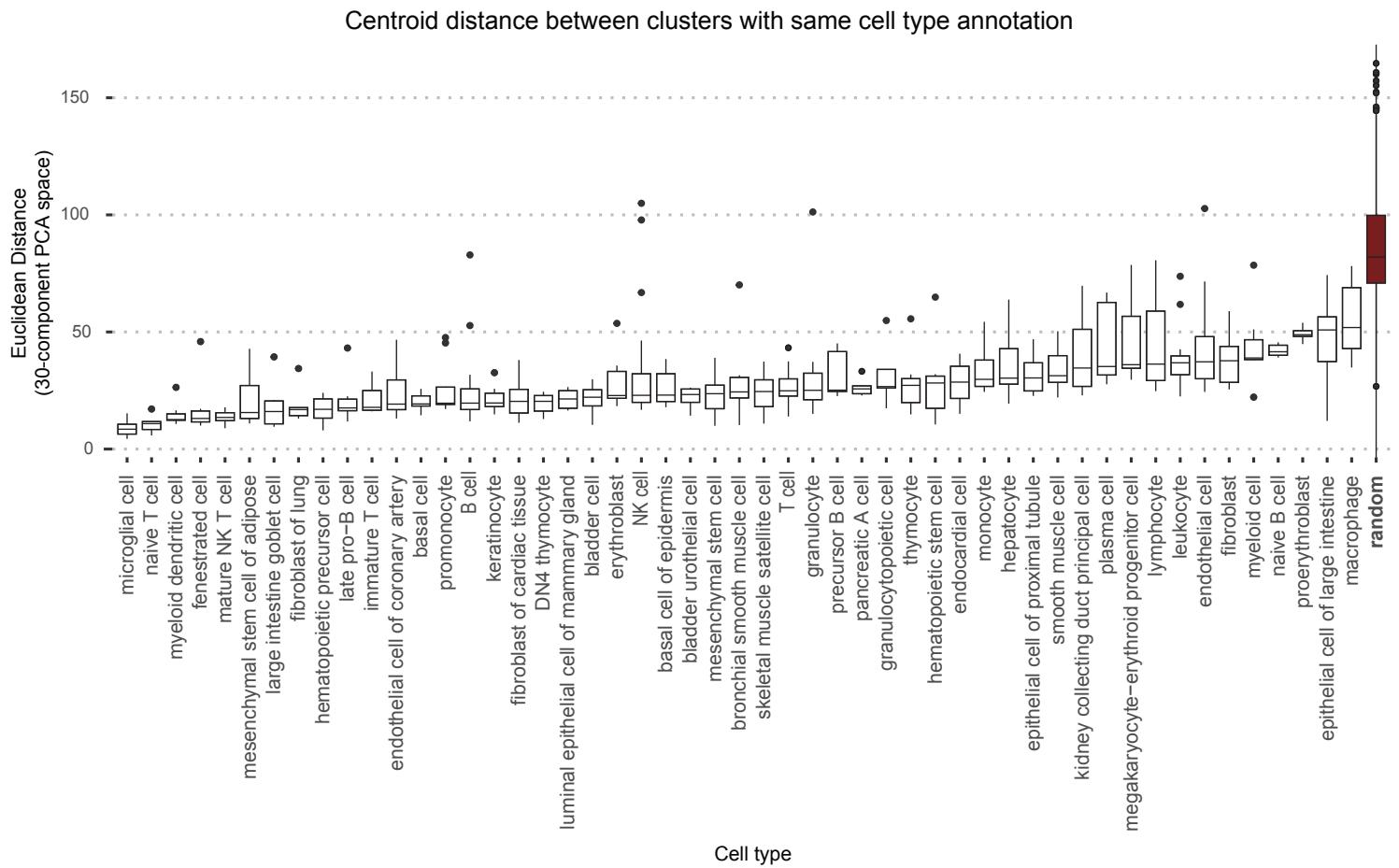


Figure 1, Supplement 1

A



B



C

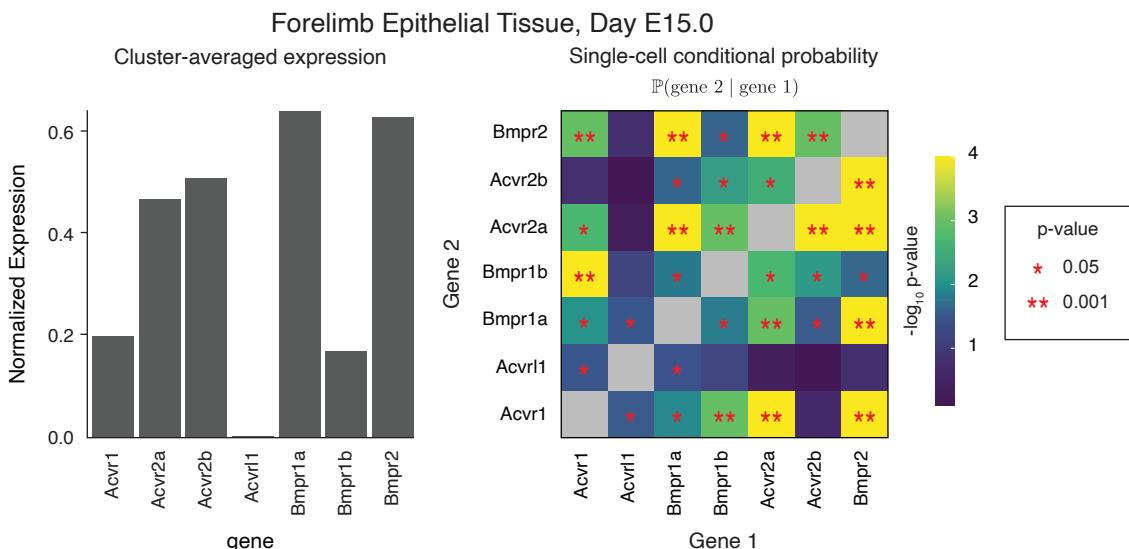
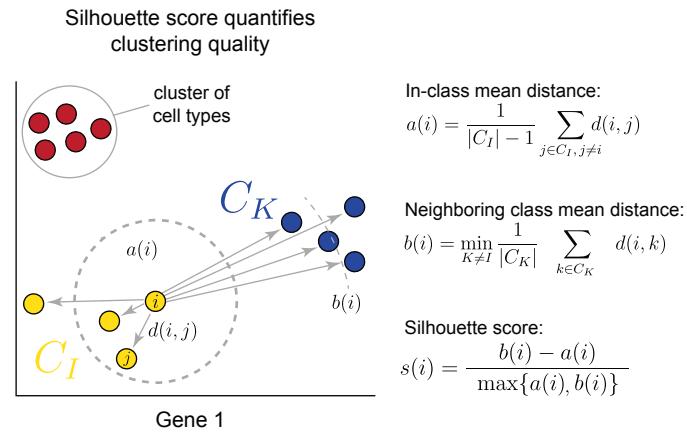


Figure 2, Supplement 1

A



B

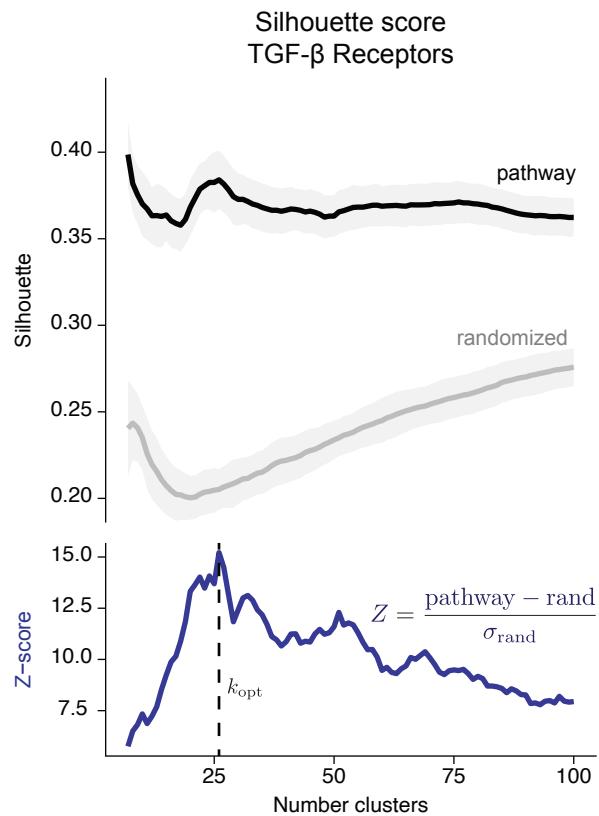
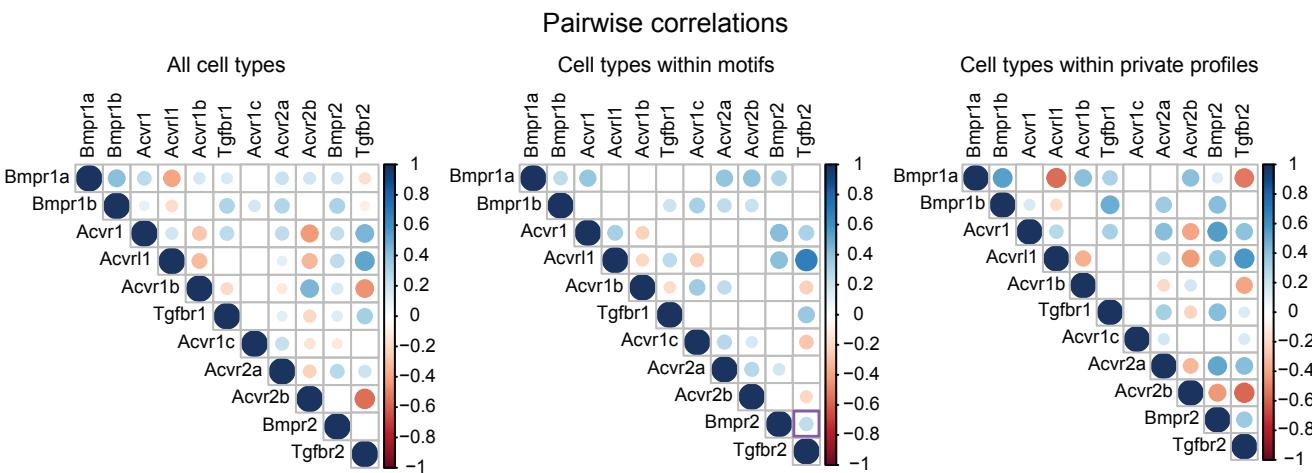


Figure 3 Supplement 1

A



B

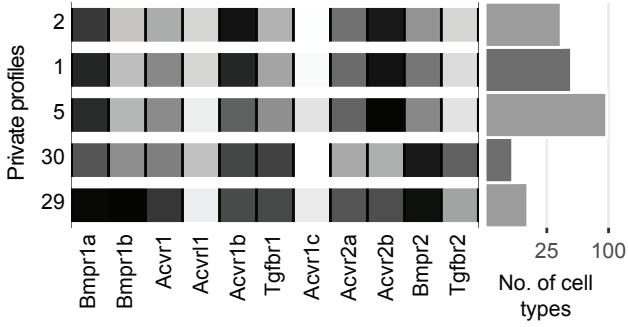
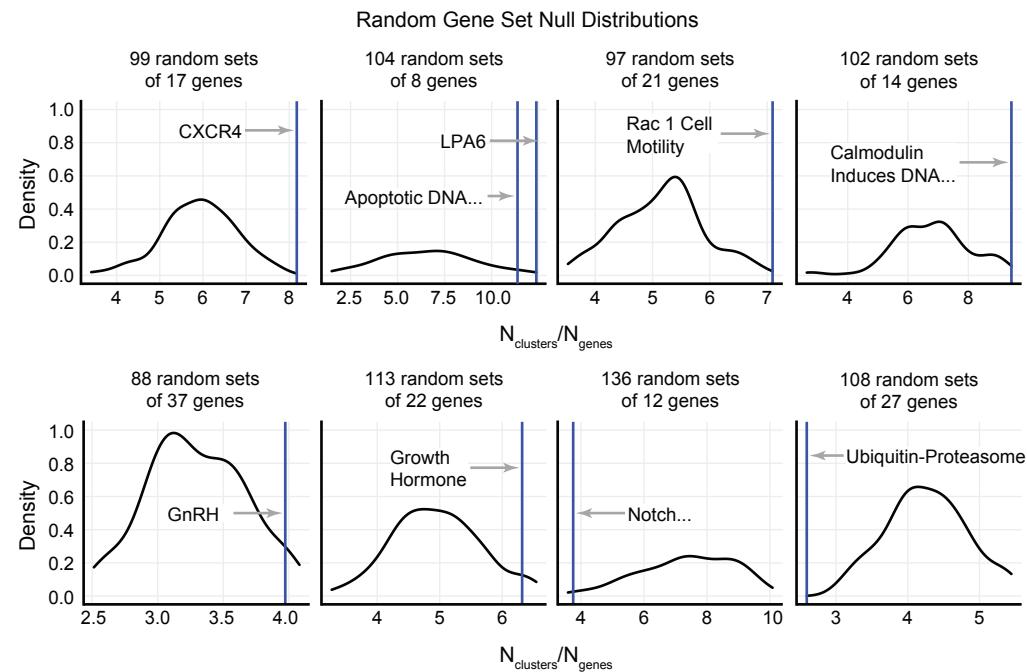


Figure 4 Supplement 1

A



B

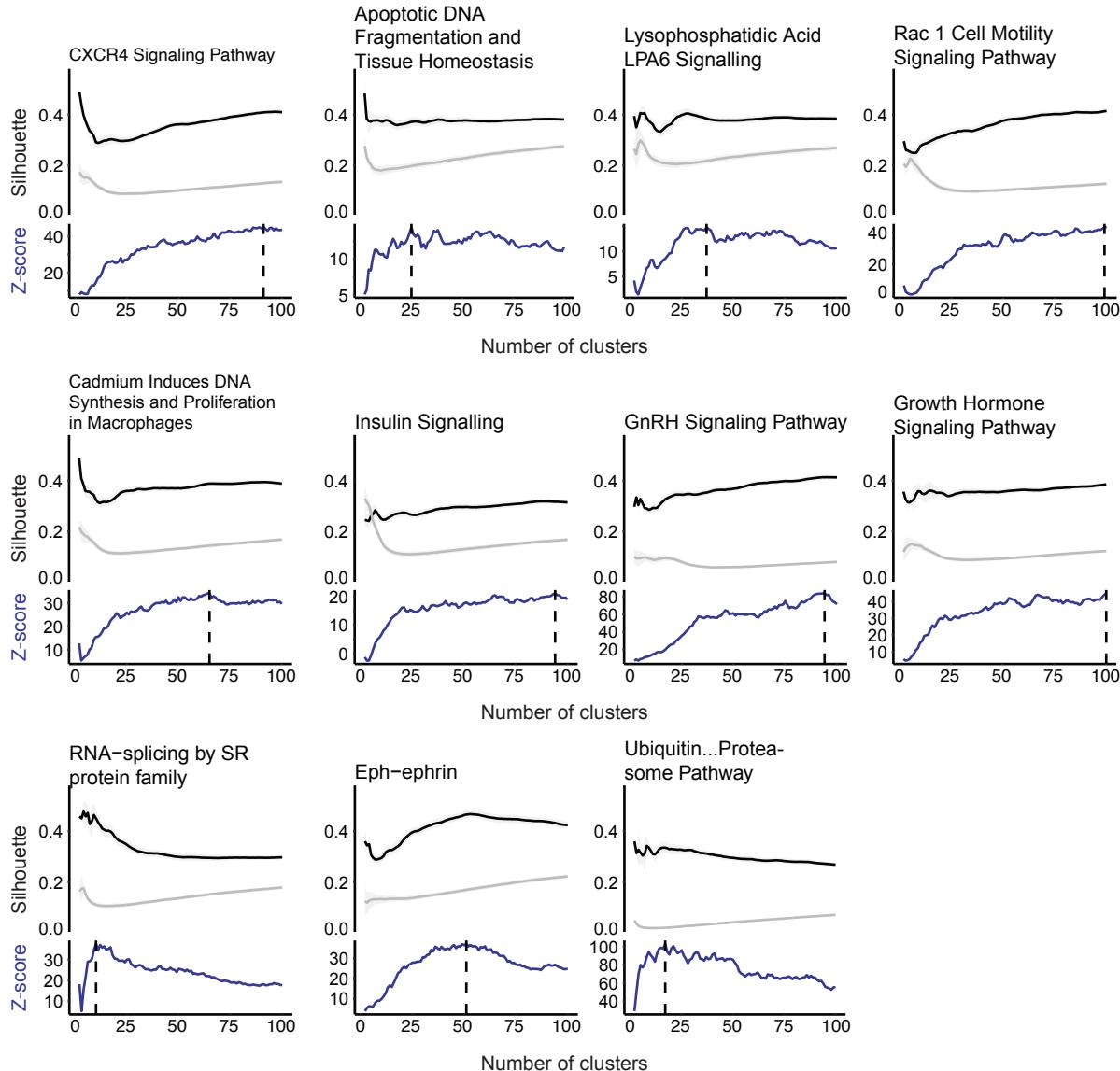
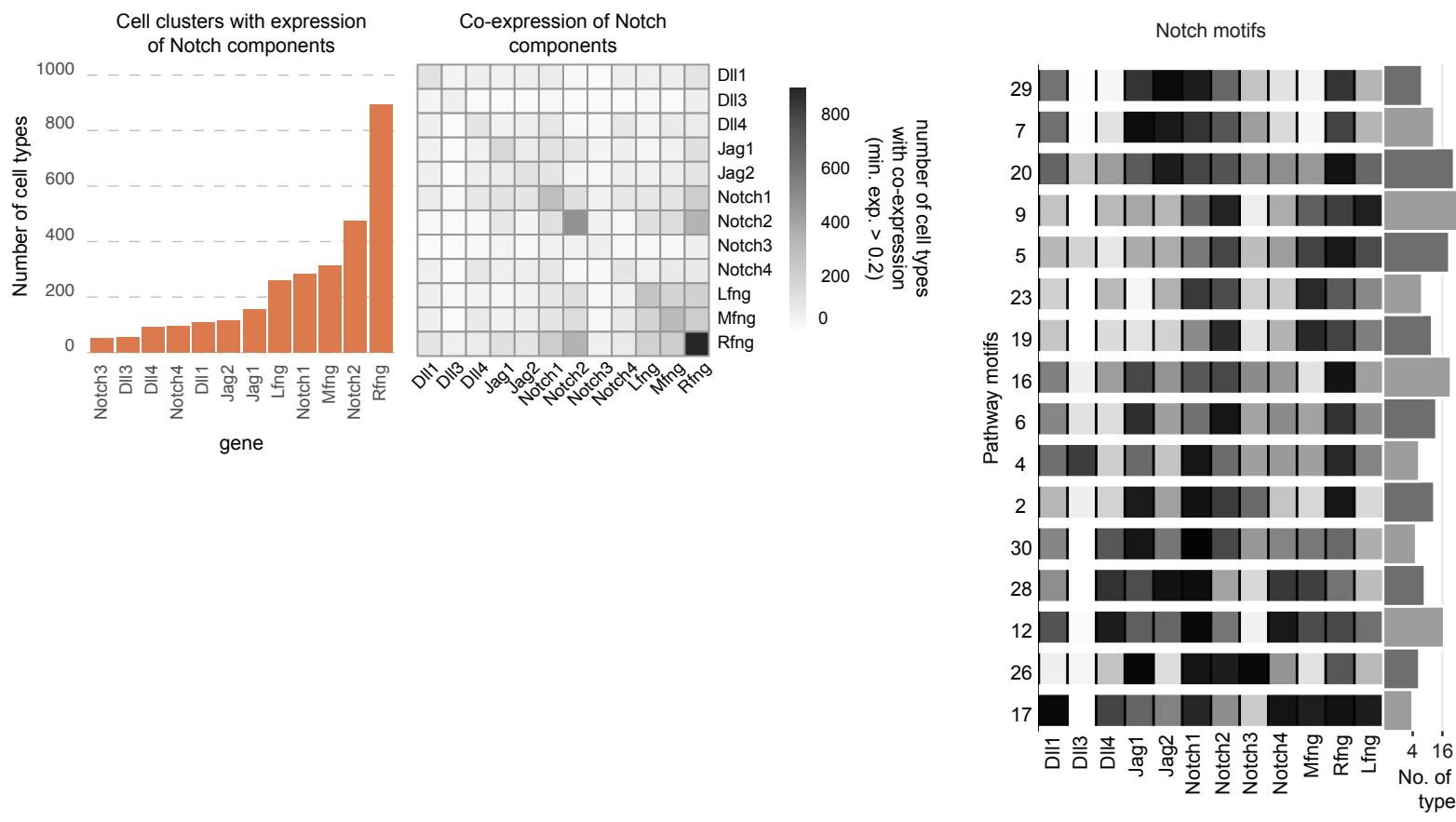
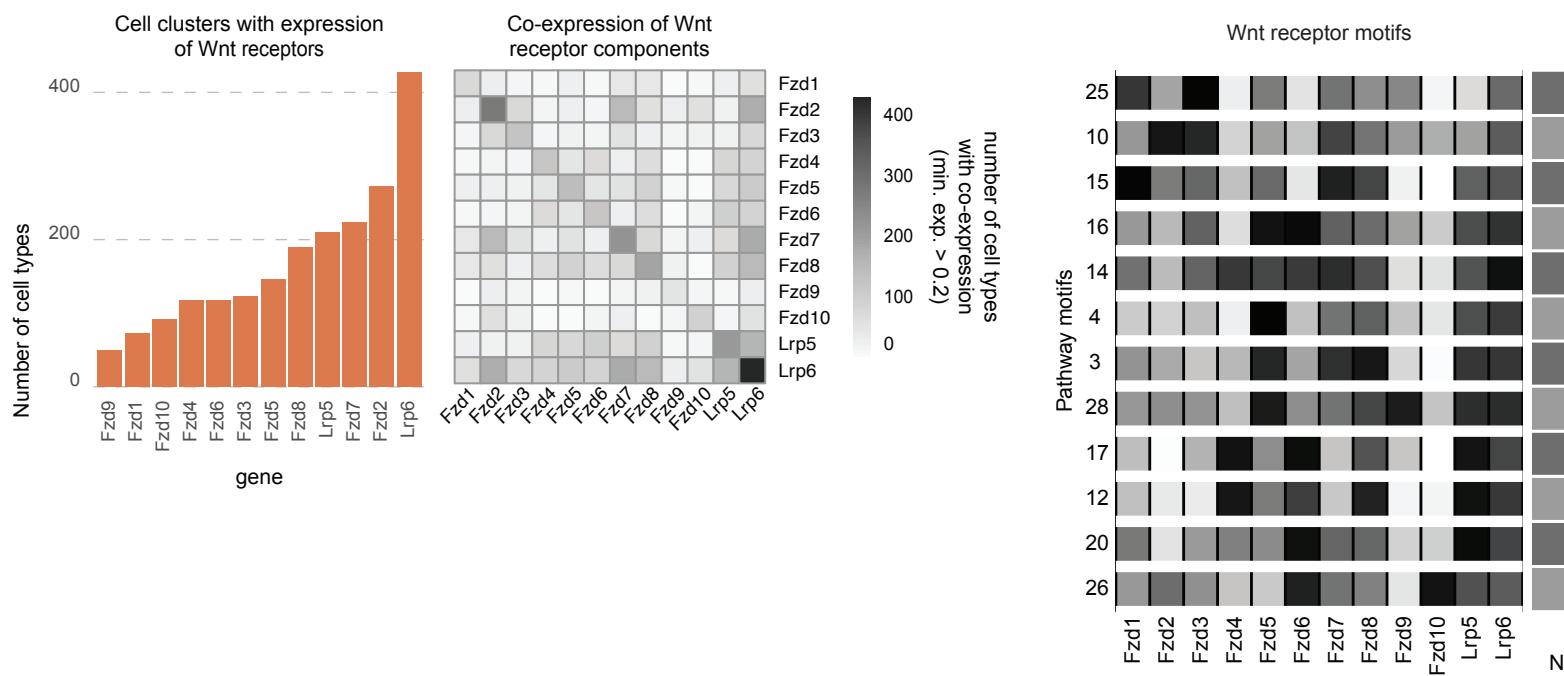


Figure 4 Supplement 2

A



B



C

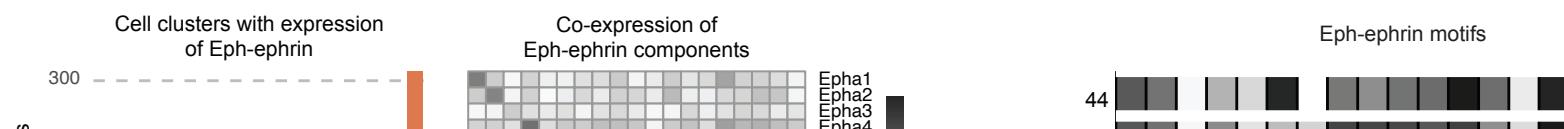


Figure 2, Supplement 2

