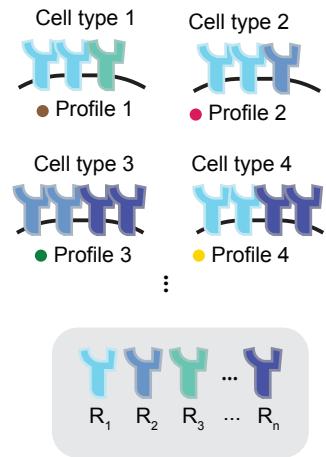


Figure 1: Pathway expression profiles could recur across diverse cell types

A

Receptor expression profiles



B

Pathway profiles could be...

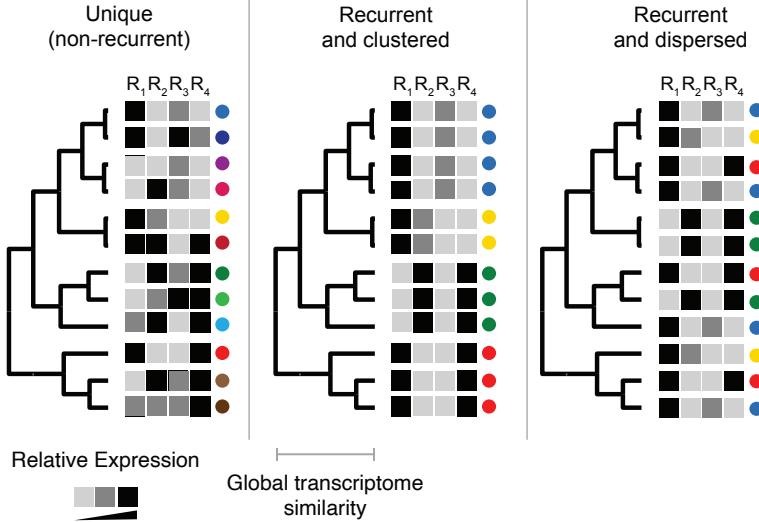
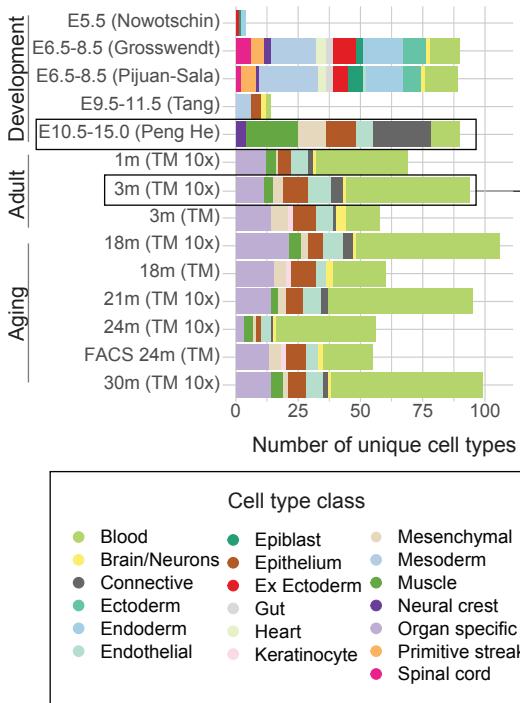


Figure 2: Pathway expression profiles could recur across diverse cell types

A

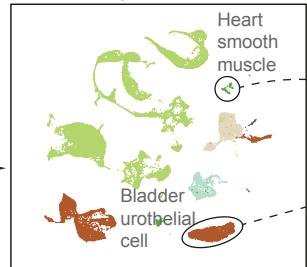
Multiple mouse cell atlas datasets



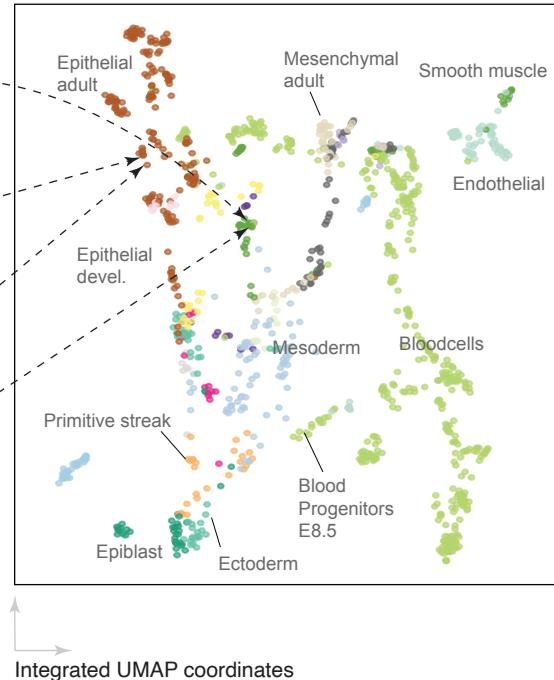
B

Individual cell atlases
Single-cell transcriptome profiles
1 dot = 1 cell

Tabula senis (24 month old mouse)

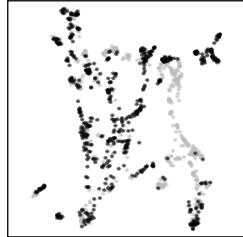


Integrated cell state atlas
Global cluster-averaged profiles
All data sets in (C)
1 dot = 1 cell cluster



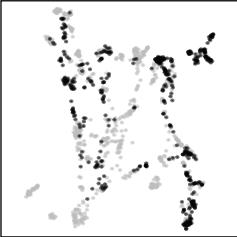
C

TGF- β
52% of cell clusters



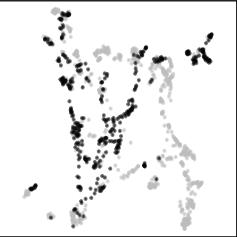
Min. # of genes exp: 2
Threshold for exp.: 0.2

Notch
37% of cell clusters



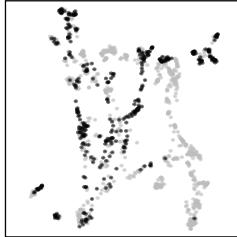
Min. # of genes exp: 2
Threshold for exp.: 0.2

Eph-ephrin
36% of cell clusters



Min. # of genes exp: 2
Threshold for exp.: 0.3

Wnt
31% of cell clusters

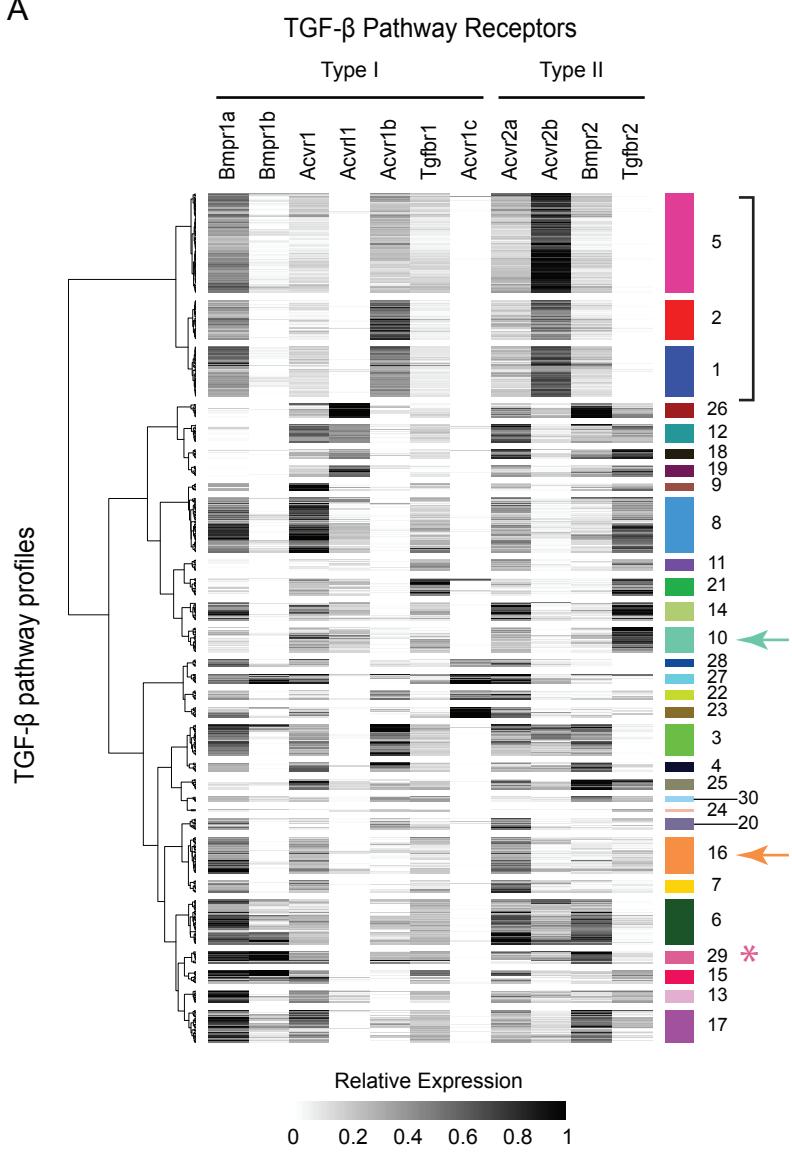


Min. # of genes exp: 2
Threshold for exp.: 0.3

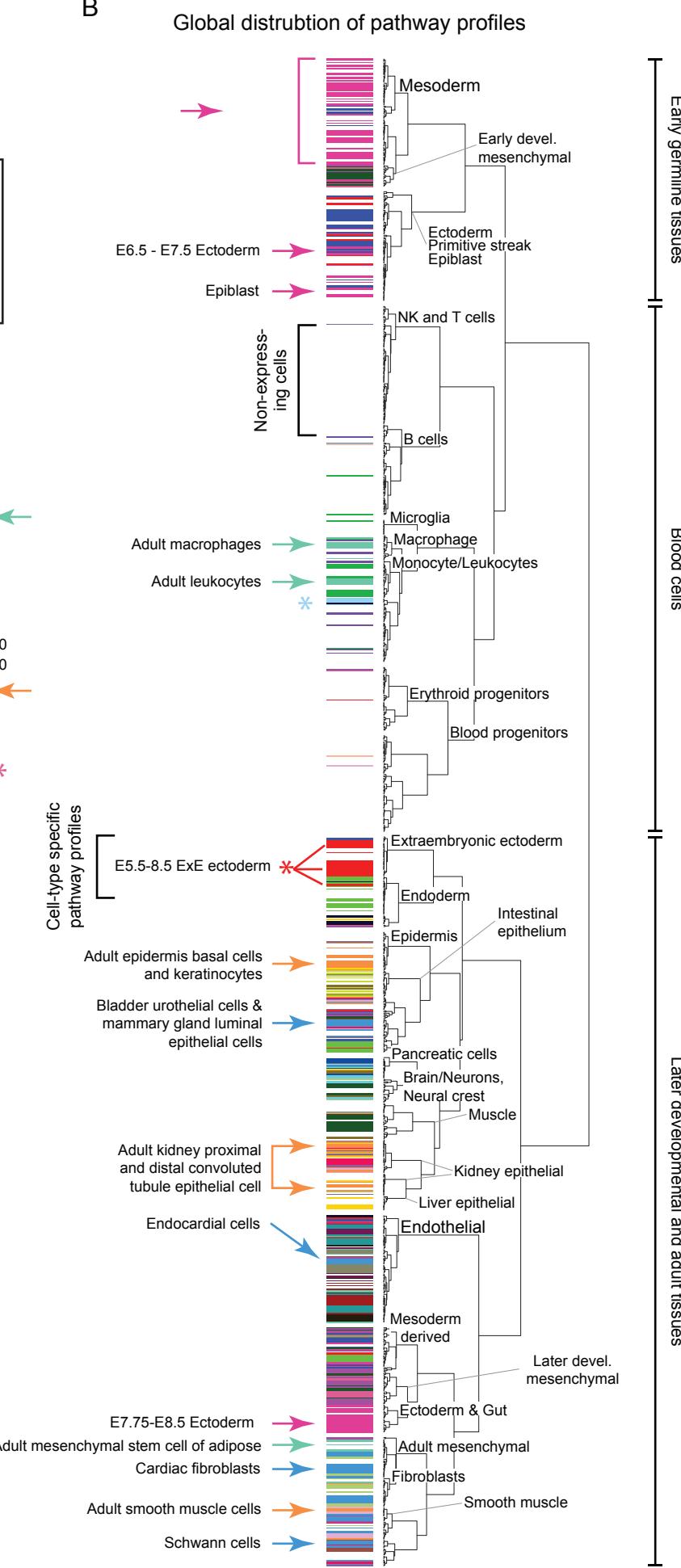
Dataset UMAP coordinates

Figure 3: TGF- β Receptors exhibit distinct and recurrent pathway expression profiles

A



B



C

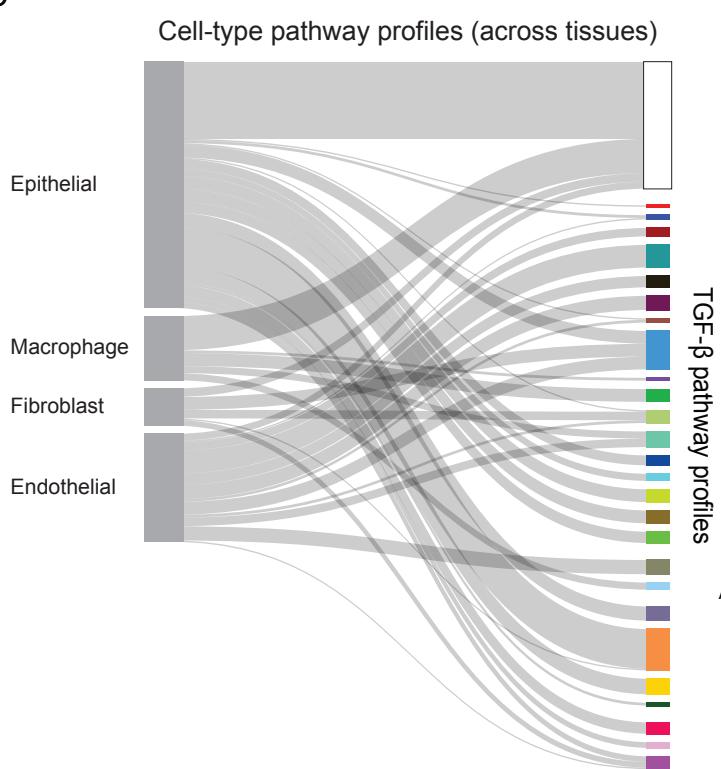


Figure 4: TGF- β expression motifs are dispersed across cell types and organs

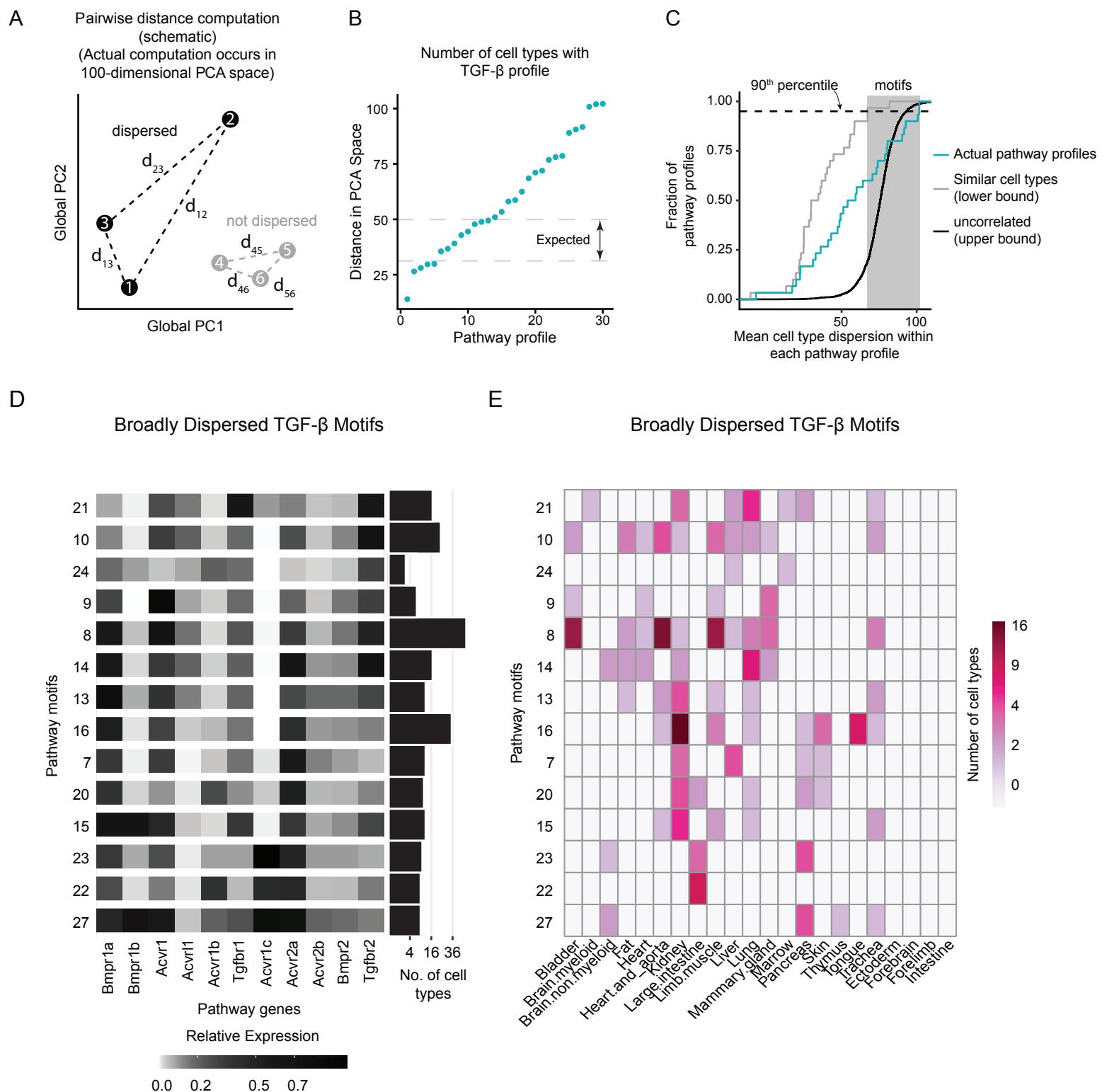


Figure 5: Other signaling pathways also exhibit pathway expression motifs

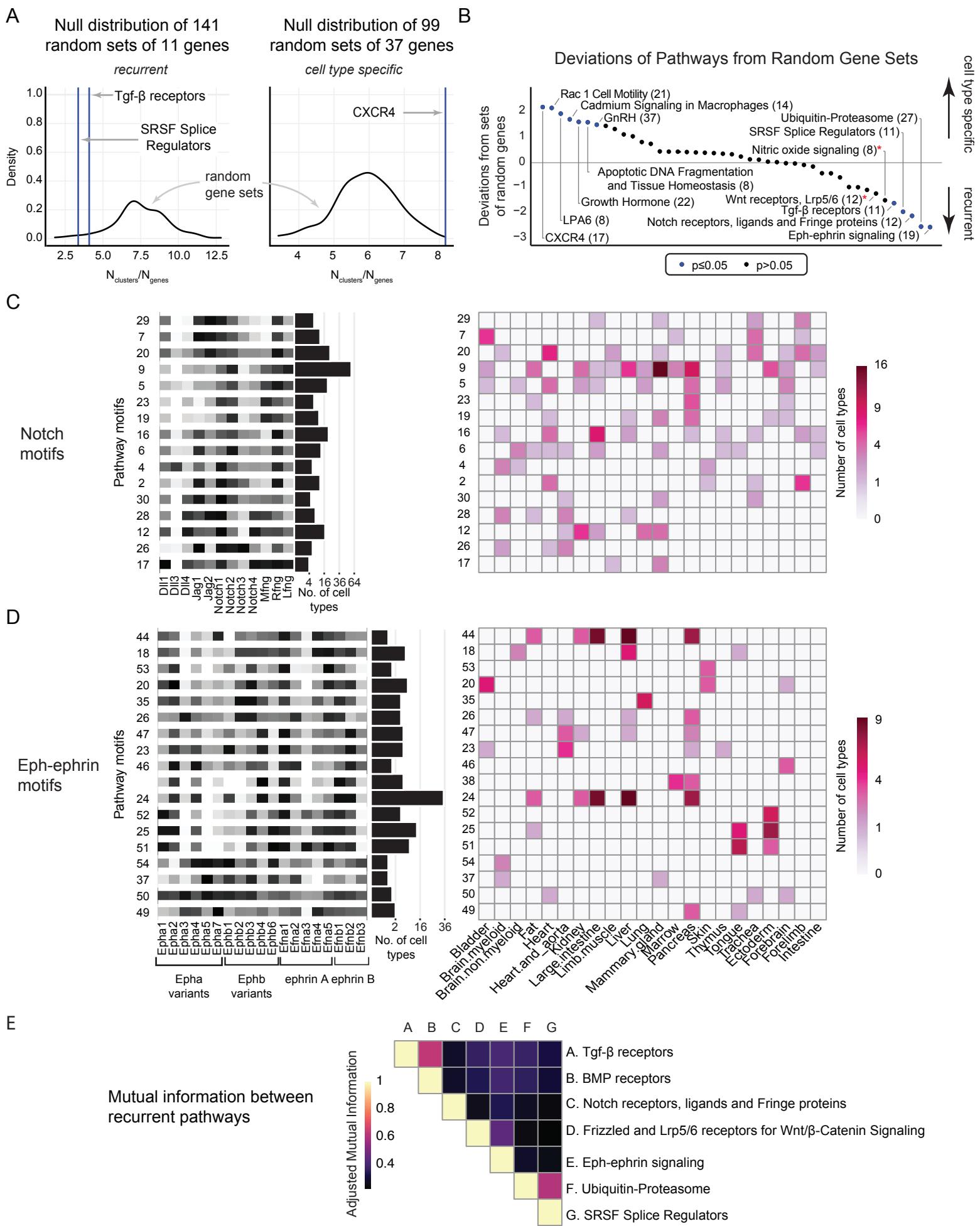
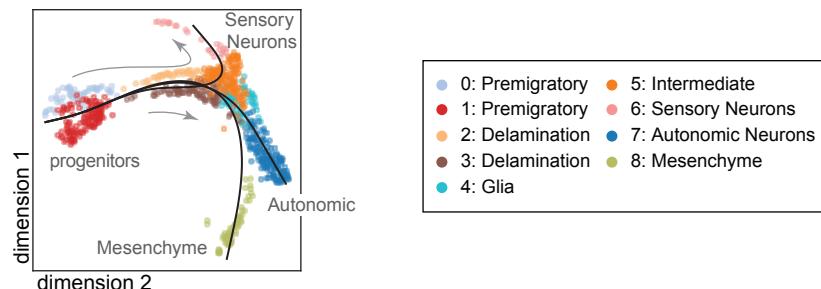
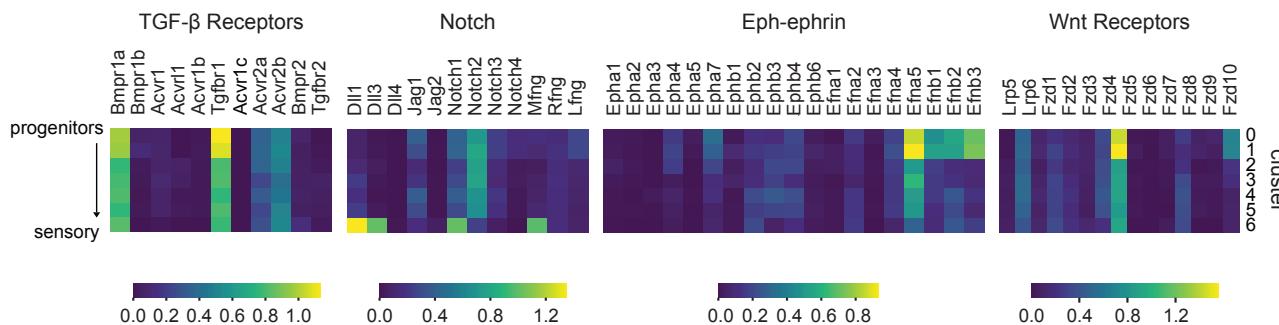


Figure 6: Title

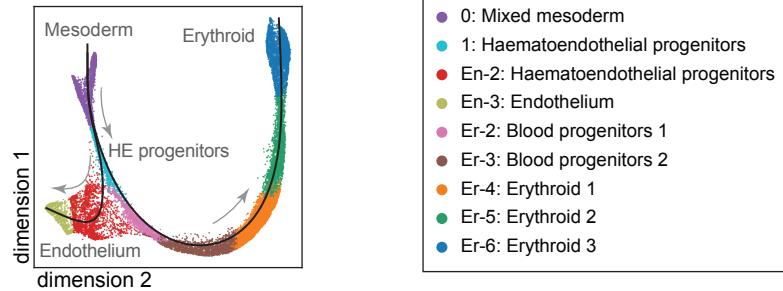
A Trunk Neural Crest (E9.5)



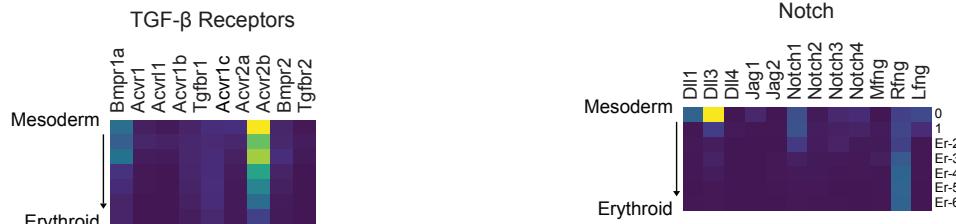
B



C Early vascular differentiation



D



E

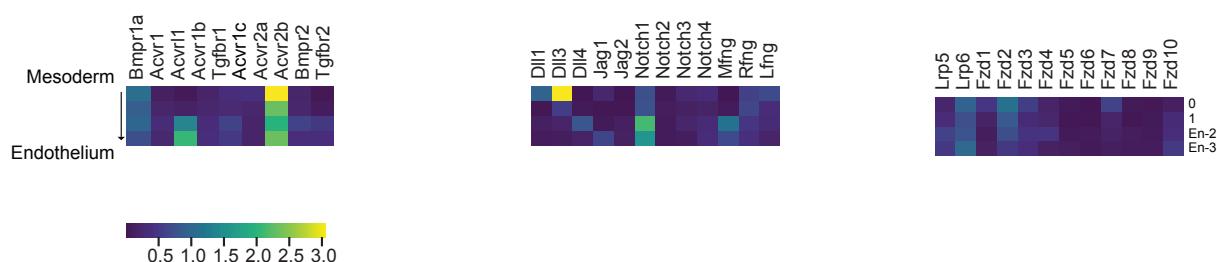
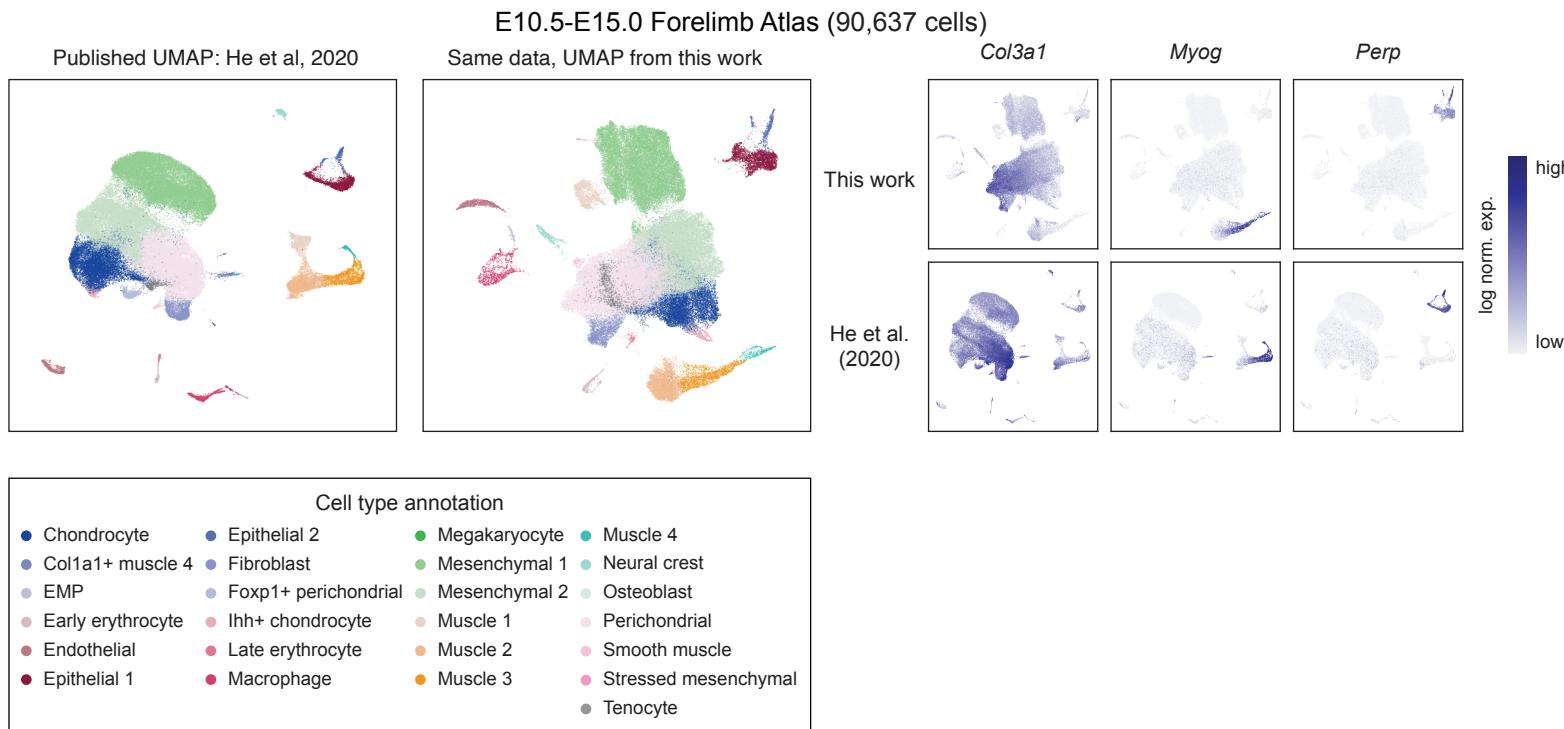
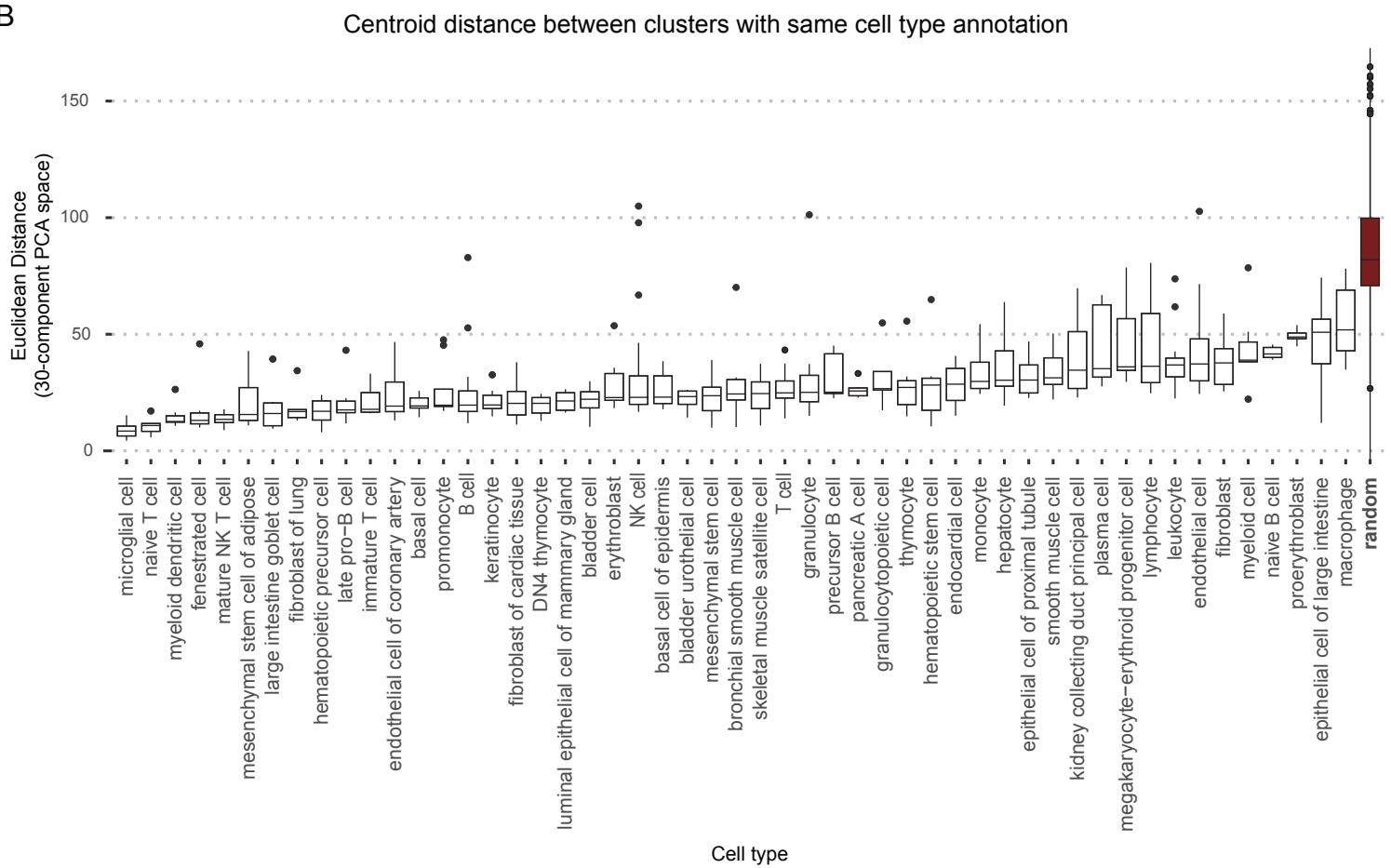


Figure 2, Supplement 1

A



B



C

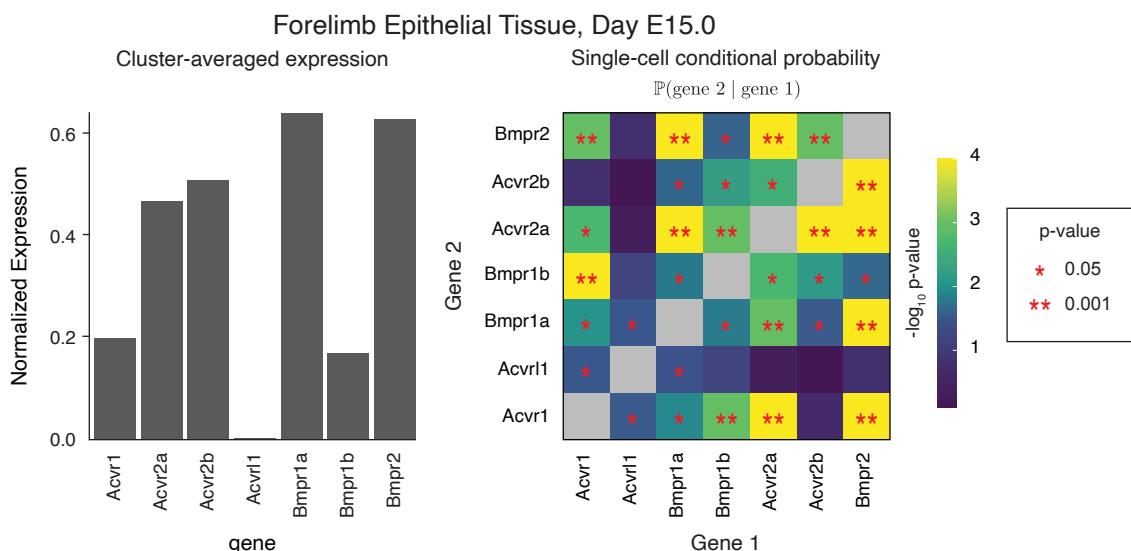
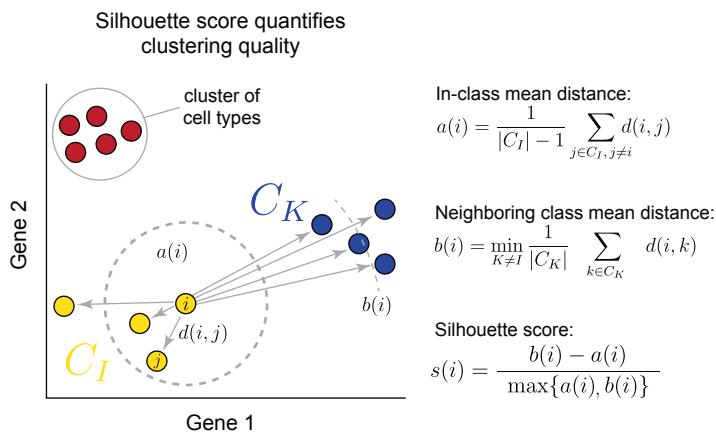


Figure 3-figure supplement 2

A



B

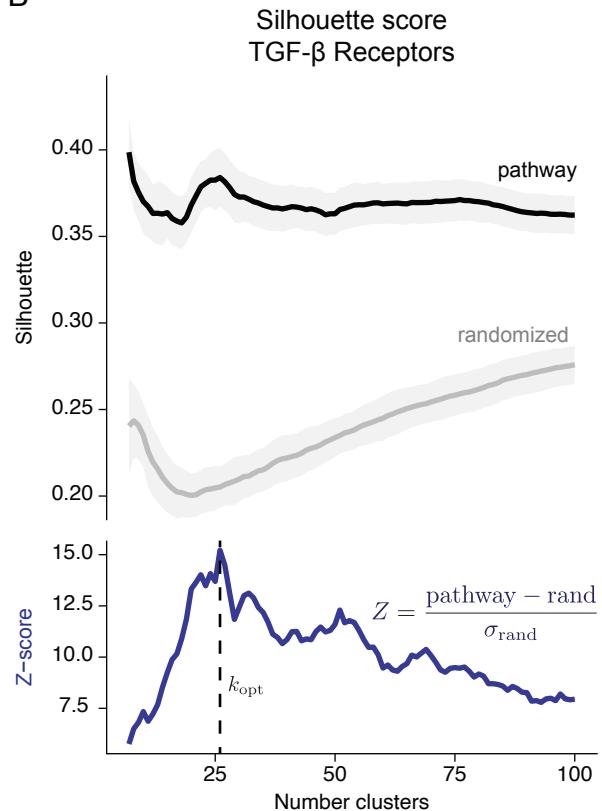
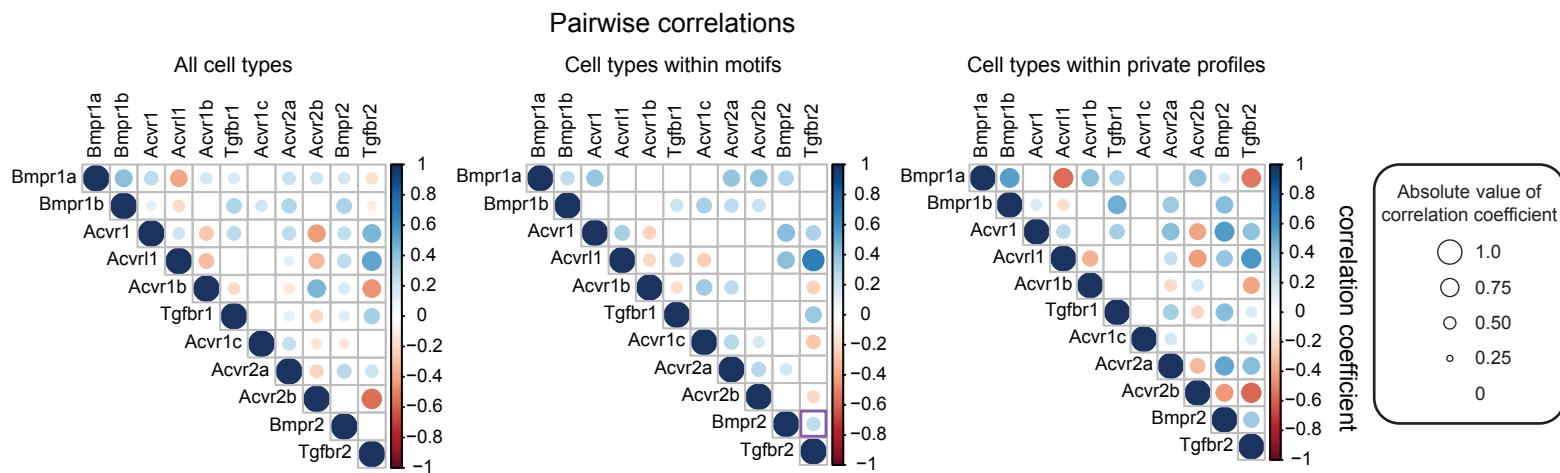


Figure 4, Supplement 1

A



B

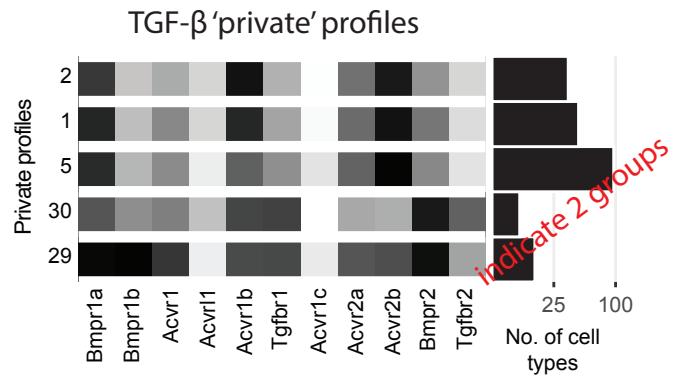
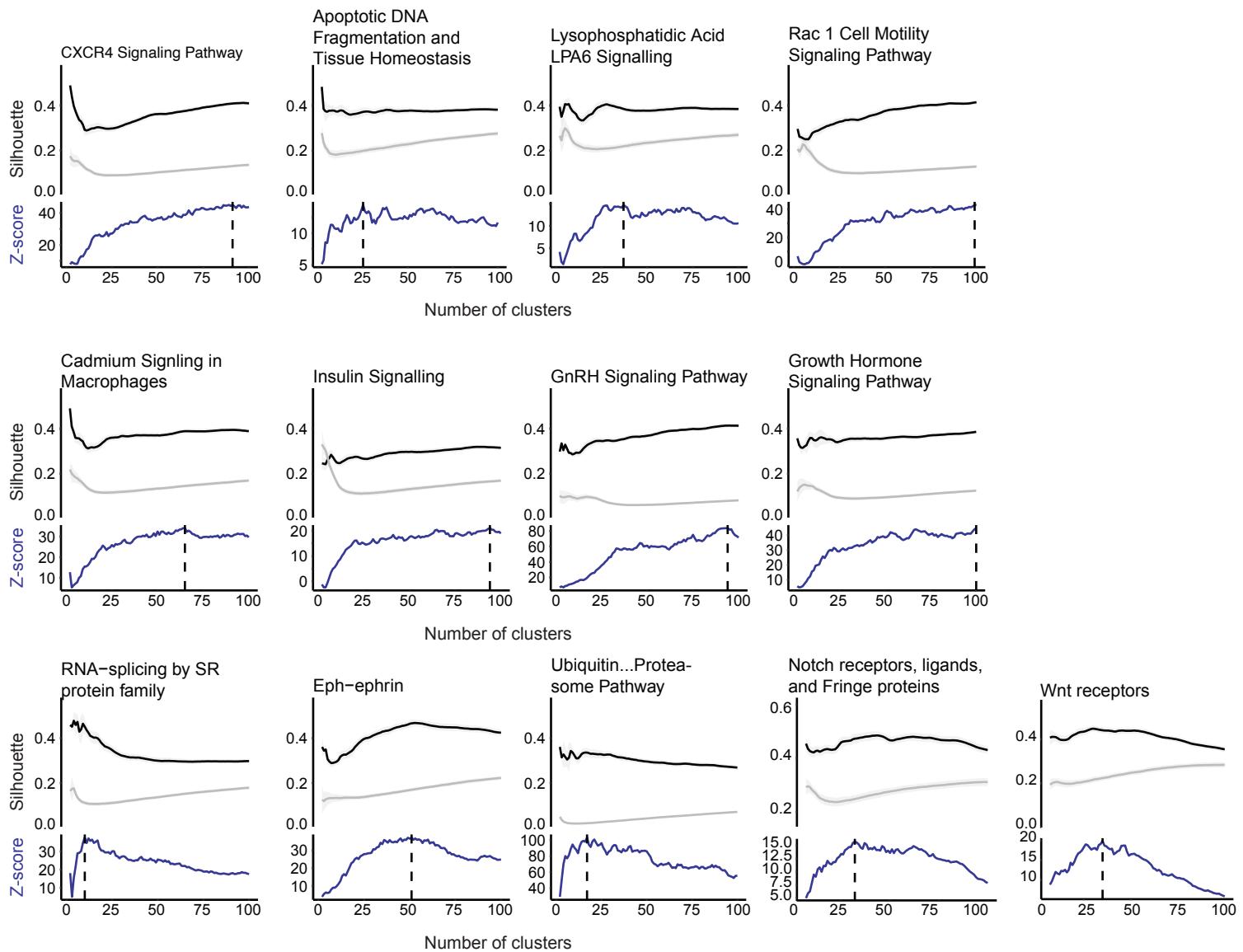


Figure 5—figure supplement 1

A



B

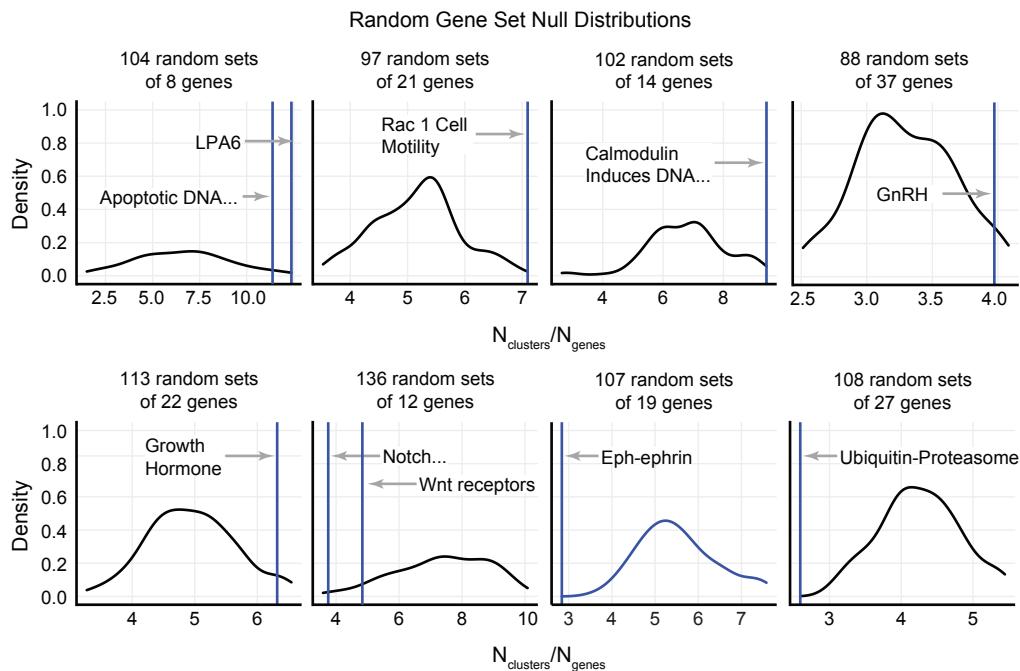
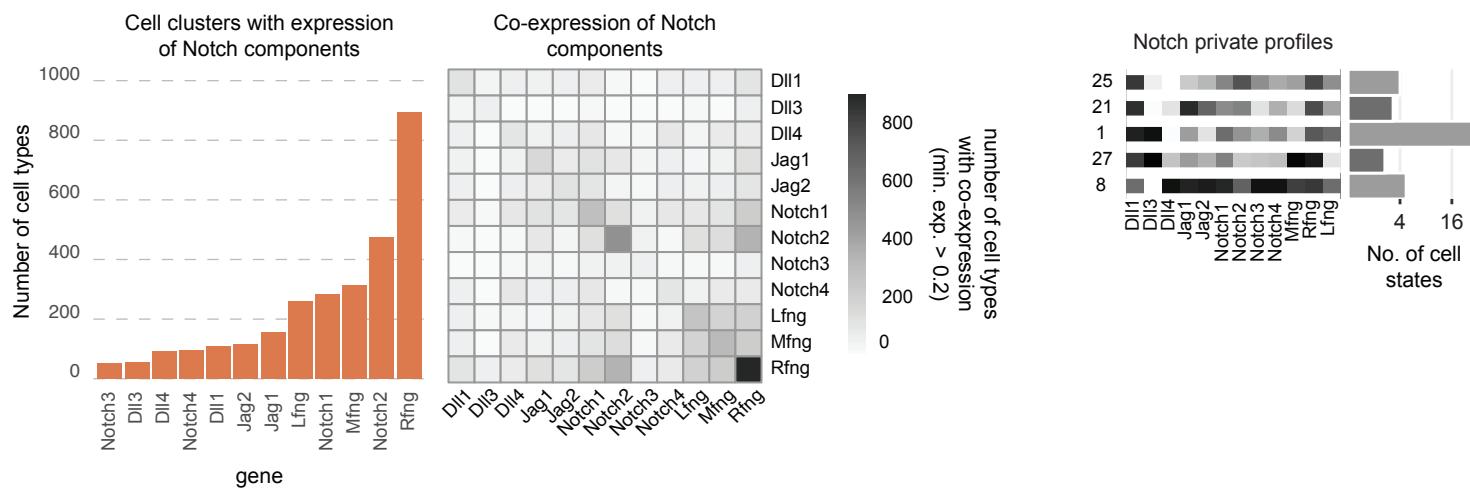
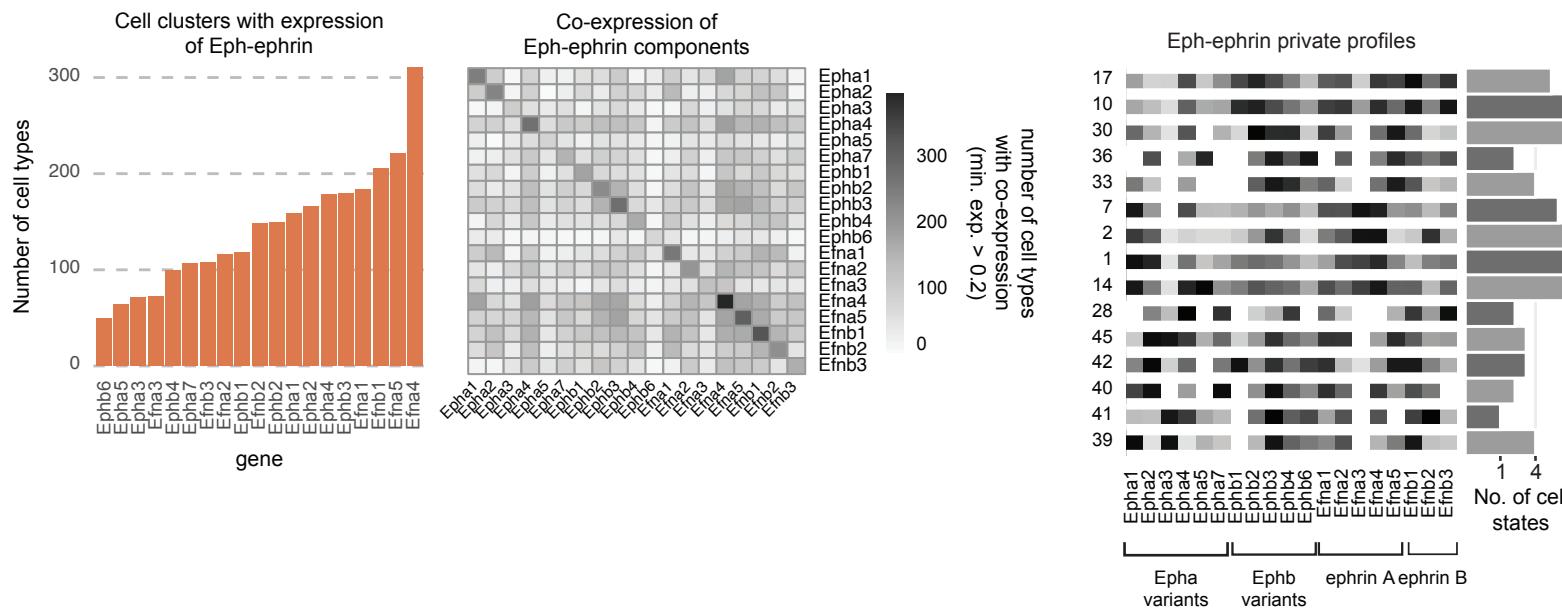


Figure 5—figure supplement 2

A



B



C

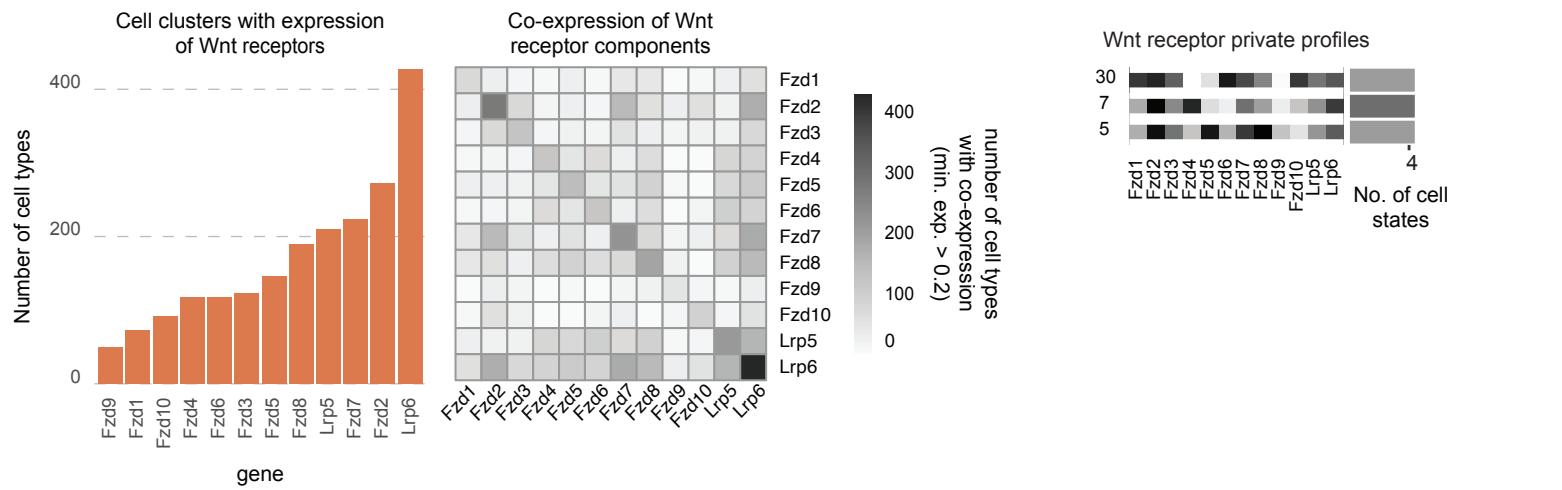


Figure 3, Supplement 1

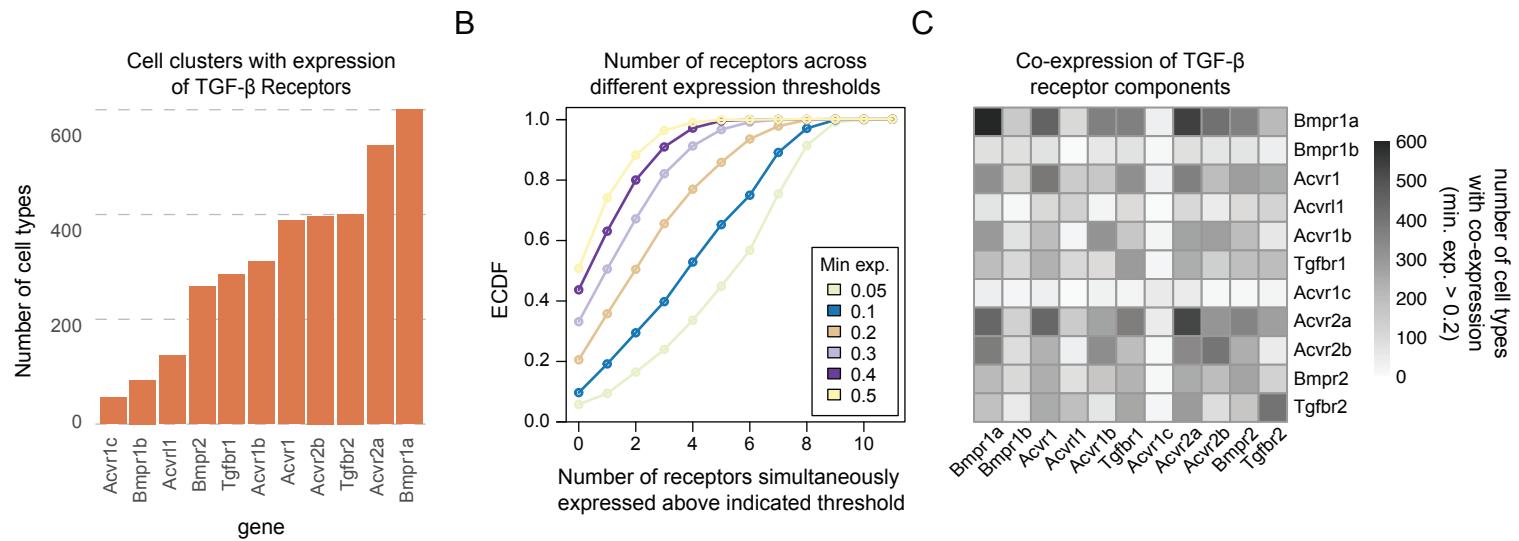
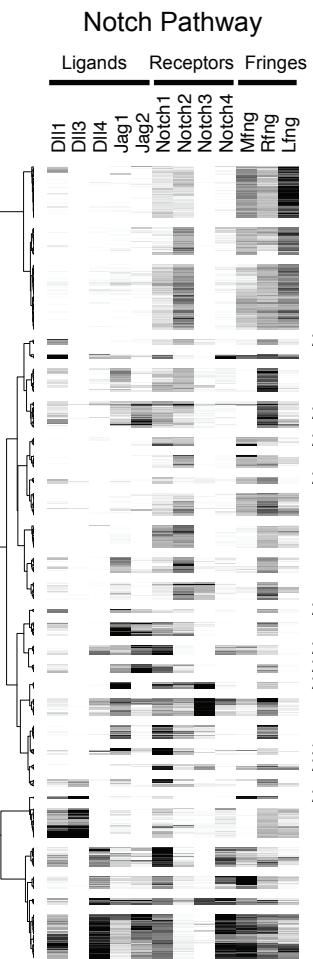
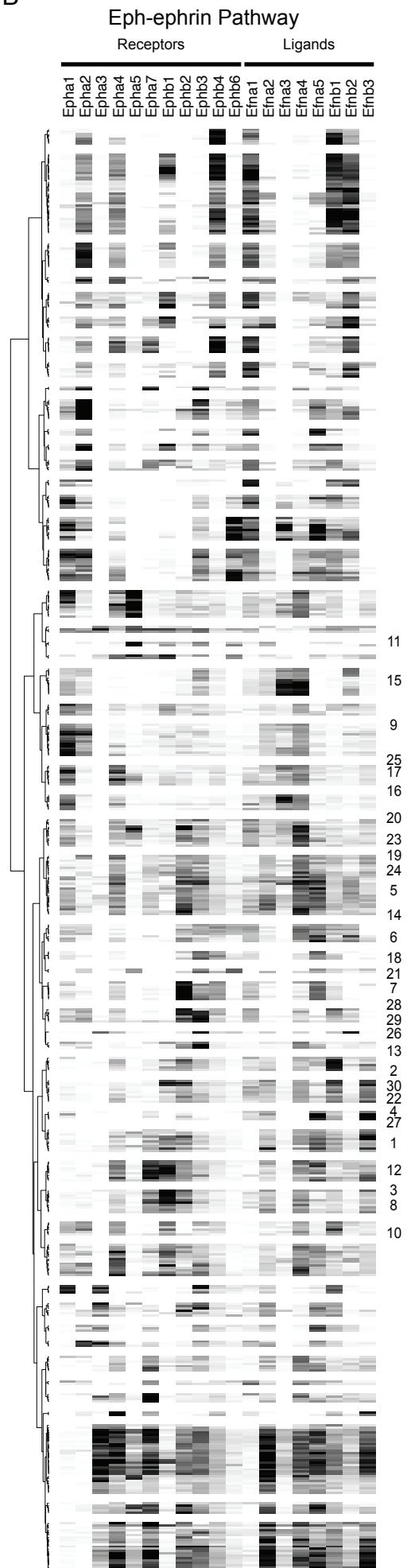


Figure 5—figure supplement 3

A



B



C

