

**Title:** Supplementary Data File 1:

**Description:** Differentially expressed genes from integrative or single library clustering of human neonatal epidermis.

**Title:** Supplementary Data File 2:

**Description:** Ligand, receptor, and downstream target genes used for cell-cell signaling analysis of WNT, JAK/STAT, NOTCH, and TGF- $\beta$  signaling pathways.

**Title:** Supplementary Data File 3:

**Description:** Differentially expressed genes from subclustering of human neonatal epidermal keratinocytes.

**Title:** Supplementary Data File 4:

**Description:** Differentially expressed genes along the putative BAS-SPN-GRN differentiation trajectory of human neonatal epidermal keratinocytes.

**Title:** Supplementary Data File 5:

**Description:** Differentially expressed genes from subclustering of human neonatal epidermal basal clusters.