**Supplementary File 8.** Summary of published RNA-seq datasets used and assessed in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tissue** | **Species** | **Stage** | **Paper** | **Data type; url/ accession ID; subsetting**  |
| Liver | Mouse | E9.5-17.5 | (Mu et al., 2020) | scRNA-seq; <https://db.cngb.org/search/project/CNP0000236/> ;Subsetted out liver primordium, liver bud and hepatocytes |
| Placenta | Mouse | E9.5, E10.5, E12.5, E14.5 | (Marsh & Blelloch, 2020) | scRNA-seq; <https://figshare.com/projects/Single_nuclei_RNA-seq_of_mouse_placental_labyrinth_development/92354> |
| Yolk sac | Mouse | E9.5, E10.5 | (Zhao & Choi, 2019) | scRNA-seq; <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3732840> |
| Gastrulation atlas | Mouse | E6.5-8.5  | (Pijuan-Sala et al., 2019) | scRNA-seq; <https://bioconductor.org/packages/devel/data/experiment/vignettes/MouseGastrulationData/inst/doc/MouseGastrulationData.html> ;Seurat objects were generated by loading one “sample” per embryonic stage. |
| Yolk sac | Human | ? | (Cindrova-Davies et al., 2017) | Bulk RNA-Seq; <https://www.ebi.ac.uk/ena/browser/view/PRJEB18767> |
| Yolk sac | Human | 3-8 PCW | (Goh et al., 2023) | scRNA-Seq; <https://app.cellatlas.io/yolk-sac/dataset/2/scatterplot> ;Subsetted yolk sac endoderm |
| Liver | Human | Embryonic and adult | (Wesley et al., 2022) | scRNA-Seq;<https://app.cellatlas.io/liver-development/dataset/7/scatterplot> |
| Organogenesis atlas | Mouse | E10.5 | (Cao et al., 2019) | scRNA-seq; <https://oncoscape.v3.sttrcancer.org/atlas.gs.washington.edu.mouse.rna/downloads> ;Subsetted E10.5 only |

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