

Efficient globin production during terminal erythropoiesis depends on the cooperative action of TENT5C poly(A) polymerase and LARP4B in mice

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1. Tables

- **Supplementary_Data_1.xlsx** - Data underlying plots/figures
- **Supplementary_Data_2.xlsx** - Excel file with differential adenylation results (each sheet contains one comparison for WT vs Tent5c KO, E14.5 FLEB, BasoE, PolyE, OrthoE, Retc for WT vs Tent5c catalytic mutant, control shRNA vs given silencing with either one or multiple shRNA, respectively).
- **Supplementary_Data_3.xlsx** - Excel file with TurboID analysis summaries
- **Supplementary_Data_4.xlsx** - Excel file with Degronpedia analysis overview
- **Supplementary_Data_5.xlsx** - Key resource Excel file

2. Raw data

- **Supplementary_Data_6.zip** - raw data from ELISA experiments
- **Supplementary_Data_7.zip** - raw data from cytometry experiments
- **Supplementary_Data_8.zip** - raw data from blood parameters assessment
- **Supplementary_Data_9.gz** - Nanopolish polyA predictions for FLEB E14.5 data
- **Supplementary_Data_10.gz** - Dorado polyA predictions for sorted BasoE, OrthoE, PolyE and Retc data
- **Supplementary_Data_11.gz** - Dorado polyA predictions for silencing experiment data
- **Supplementary_Data_12.zip** - raw data from RT-qPCR experiments
- **Supplementary_Data_13.gz** - TurboID assay MS/MS raw data

3. Supplementary Information

- **Supplementary_Information.pdf** - a PDF file containing Supplementary Figures 1-22. Supplementary Figures 10-22 contain uncropped Western blot images corresponding to the Western blot panels presented in the main and supplementary figures.

The Supplementary Information file contains the following figures:

- **Supplementary Figure 1** - TENT5C-dependent anemic phenotype is not related to iron pathways
- **Supplementary Figure 2** - HBA, HBB, PCBP1, PCBP2 and TENT5C expression ex vivo and evaluation of putative TENT5C substrates suggested by Yang et al.
- **Supplementary Figure 3** - TurboID supplementary information
- **Supplementary Figure 4** - Validation of LARP4A, LARP4B and TENT5C knockdown
- **Supplementary Figure 5** - Globin poly(A) tail length distribution pattern upon LARP4A, LARP4B and/or TENT5C silencing
- **Supplementary Figure 6** - Transcript-level effects of LARP4A/LARP4B and TENT5C perturbation
- **Supplementary Figure 7** - TENT5C degradation pathways and CNOT4 silencing
- **Supplementary Figure 8** - Gating strategies
- **Supplementary Figure 9** - Sequence alignment of mouse hemoglobin transcripts
- **Supplementary Figure 10** - Uncropped Western blots related to Figure 3F and Supplementary Figure 2B,D
- **Supplementary Figure 11** - Uncropped Western blots related to Figure 5D and Supplementary Figure 3F (part 1)
- **Supplementary Figure 12** - Uncropped Western blots related to Figure 5D and Supplementary Figure 3F (part 2)
- **Supplementary Figure 13** - Uncropped Western blots related to Figure 5D and Supplementary Figure 3F (part 3)
- **Supplementary Figure 14** - Uncropped Western blots related to Figure 7A-C
- **Supplementary Figure 15** - Uncropped Western blots related to Supplementary Figure 2A
- **Supplementary Figure 16** - Uncropped Western blots related to Supplementary Figure 3C
- **Supplementary Figure 17** - Uncropped Western blots related to Supplementary Figure 3D
- **Supplementary Figure 18** - Uncropped Western blots related to Supplementary Figure 3E

- **Supplementary Figure 19** - Uncropped Western blots related to Supplementary Figure 4A
- **Supplementary Figure 20** - Uncropped Western blots related to Supplementary Figure 7A
- **Supplementary Figure 21** - Uncropped Western blots related to Supplementary Figure 7B
- **Supplementary Figure 22** - Uncropped Western blots related to Supplementary Figure 7C