

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: *In vivo* LDA data.

Tables with the *in vivo* limiting dilution assay data.

File name: Supplementary Data 2

Description: Bulk RNA-Seq., of the four human HSPC populations.

Tables with DE genes from the bulk RNA-seq analyses between the four CD90⁺or- CD49f⁺or- HSPCs.

File name: Supplementary Data 3

Description: scRNA-Seq., CD90⁺or-CD49f⁺

Data analysis of the single-cell RNA-seq experiments between the two CD49f⁺ HSC-enriched populations.

File name: Supplementary Data 4

Description: bulk RNA-Seq., EPCR⁺vsCD90⁺EPCR⁻vsMPP

Tables with DE genes from the bulk RNA-seq analyses between the three most primitive human HSPC populations.