Supplementary information, Fig. S3 b а 407 Gated in 7-AAD- Lin-1.26 43.0 55.5 Colony Number CD93<sup>-</sup>LSK cells CD93<sup>+</sup>LSK cells o-Kit GEMM GM CFU-E Sca-1 CD93 d С Gated in 7-AAD-LSK 60 CD93+CD150+CD48-LSK cells CD93-CD150+CD48-LSK cells Colony Number 12.3 40.1 49.7 CD48 GM CFU-E **GEMM** CD150 CD93 f е Gated in 7-AAD-LSK 60 CD93+Flt3-LSK cells CD93-Flt3-LSK cells Colony Number 44.7 40.3 57.7 SSC CFU-E GM GEMM Flt3 CD93 g 16-week chimerism (1st) 8-week chimerism (1st) 100 100 -Chimerism (%) Chimerism (%) 50 50 0 LSK CD93<sup>+</sup>LSK CD93<sup>+</sup>LSK LSK h i Gated in 7-AAD- LSK 40 CFU-E 30-■ GM Colony Number 20-GEMM Chimerism (%) SSC

0

CD93High

 $CD93^{\text{Mid}}$ 

CD93<sup>Low</sup>

0

 $CD93^{\text{High}}$ 

CD93<sup>Mid</sup>

CD93<sup>Low</sup>

CD93

Supplementary information, Fig. S3. CD93-enriched HSCs/MPPs exhibit enhanced stem cell properties. a Flow cytometry analysis showing the proportions of CD93<sup>+</sup>LSK and CD93<sup>-</sup> LSK cells in E14.5 FL. **b** CFU culture assay to detect the colony-forming ability of CD93<sup>+</sup>LSK and CD93 LSK cells. n = 3 biological replicates. c Flow cytometry analysis showing the proportions of CD93<sup>+</sup>SLAM-LSK and CD93<sup>-</sup>SLAM-LSK cells in E14.5 FL. d CFU culture assay to detect the colony-forming ability of CD93<sup>+</sup>SLAM-LSK and CD93<sup>-</sup> SLAM-LSK cells. n = 3 biological replicates. e Flow cytometry analysis showing the proportions of CD93<sup>+</sup>Flt3<sup>-</sup> LSK and CD93 Flt3 LSK cells in E14.5 FL. f CFU culture assay to detect the colony-forming ability of CD93<sup>+</sup>Flt3<sup>-</sup>LSK and CD93<sup>-</sup>Flt3<sup>-</sup>LSK cells. n = 3 biological replicates. g Donorderived chimerism in the peripheral blood (PB) of recipients at 8 weeks and 16 weeks after primary transplantation using CD93<sup>+</sup>LSK and LSK cells. n > 3 biological replicates. **h** Flow cytometry analysis showing the proportion of CD93High-, CD93Mid-, CD93Low LSK cells in E14.5 FL. i CFU culture assay to detect the colony-forming ability of CD93<sup>High</sup>-, CD93<sup>Mid</sup>- and CD93<sup>Low</sup>LSK cells in E14.5 FL (left). n > 3 biological replicates. Donor-derived chimerism in the peripheral blood (PB) of recipients at 4 weeks after primary transplantation using CD93<sup>High</sup>-, CD93<sup>Mid</sup>- and CD93<sup>Low</sup> LSK cells (right). n = 3 biological replicates. The statistical results are presented as mean  $\pm$  SEM. Student's t test: \*, P < 0.05; \*\*, P < 0.01.