

Supplementary Materials:

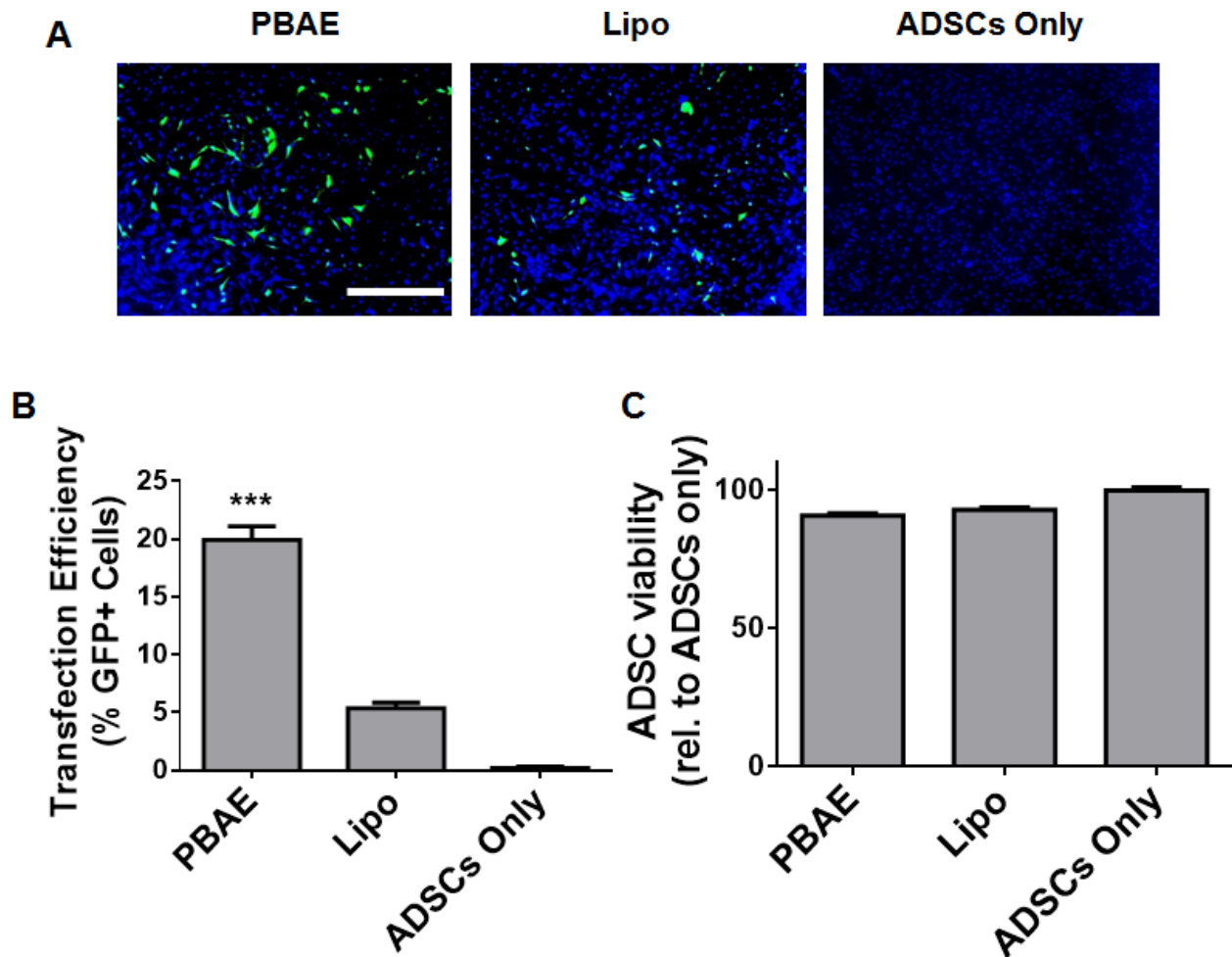


Fig. S1. Improvement of transfection efficiency and low cytotoxicity with PBAE

nanoparticles. Wild-type ADSCs were transfected with the reporter GFP via PBAE nanoparticles or Lipofectamine 2000 (Lipo). (A) Immunofluorescence imaging of GFP-transfected ADSCs (green, GFP) and cell nuclei (blue, 4',6-diamidino-2-phenylindole) (scale bar: 200 μ m). (B) FACS of GFP-positive cells. (C) Viability of transfected mouse ADSCs. All data are reported as mean $\pm$ standard error, n=4. ***p<0.001 compared with ADSCs only.

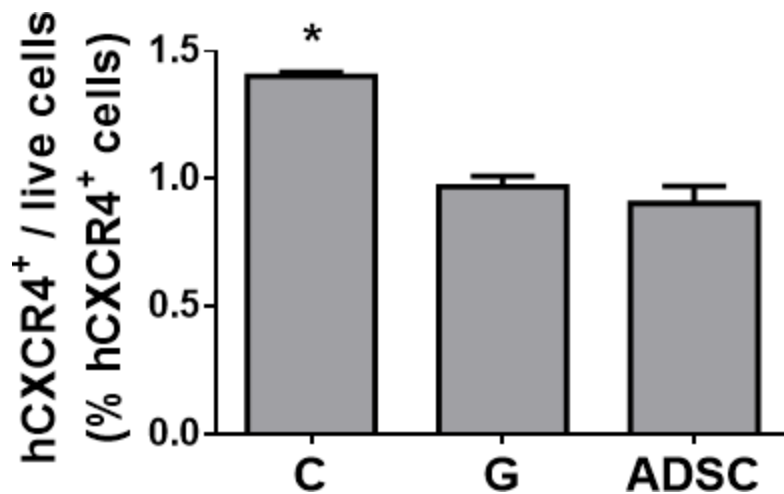


Fig. S2 Cell-surface expression of human CXCR4 on transfected mouse ADSCs. FACS performed on ADSCs tagged with anti-human CXCR4 antibodies (reported as a percentage of live cells). Abbreviations: C: CXCR4; G: GFP; h, human. All data are reported as mean $\pm$ standard error, n=4. *p<0.05 compared with ADSC controls.

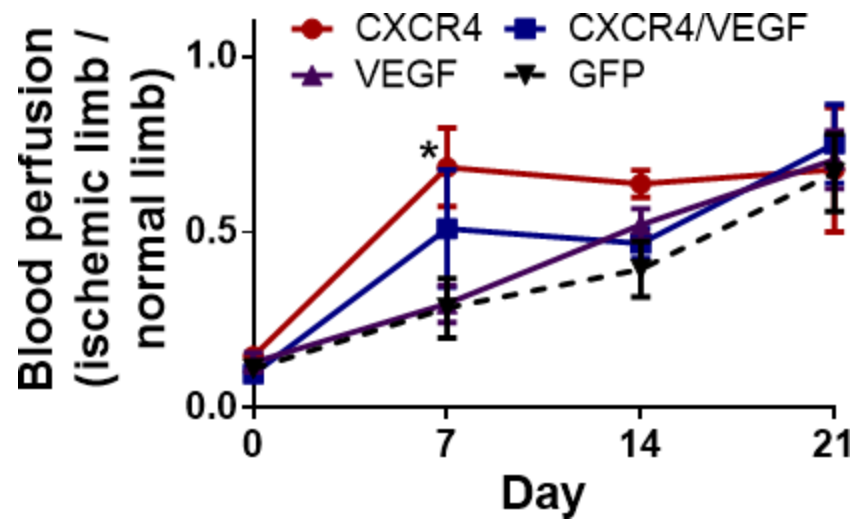


Fig. S3 Blood reperfusion of ischemic hindlimbs. Quantification of blood reperfusion revealed faster blood recovery due to CXCR4. All data are reported as mean $\pm$ standard error, n=8. *p<0.05 compared with GFP-ADSC controls.

Table S1. Primers used for qRT-PCR.

Gene Name	Primer sequence
<i>mGAPDH</i>	Forward (5'-AACGACCCCTTCATTGAC-3') Reverse (5'-TCCACGACATACTCAGCAC-3')
<i>hCXCR4</i>	Forward (5'- TTCTACCCCAATGACTTGTG-3') Reverse (5'- ATGTAGTAAGGCAGCCAACA-3')
<i>hVEGF</i>	Forward (5'-TACCTCCACCATGCCAAGTG-3') Reverse (5'-TGATGATTCDTGCCCTCCTCC-3')
<i>mVEGF</i>	Forward (5'-GCCCTGGAGTGCGTGCCACGTCAGAGAGCA-3') Reverse (5'-TGGCGATTTAGCAGCAGATA-3')
<i>mbFGF</i>	Forward (5'-GCCAGCGGCATCACCTCGCT-3') Reverse (5'-TATGGCCTTCTGTCCAGGTCCCGT-3')
<i>mHGF</i>	Forward (5'-TTGGCCATGAATTGACCTC-3') Reverse (5'-ACATCAGTCTCATTACAGC-3')
<i>mIL-18</i>	Forward (5'-CAACCAACAAGTGATATTCTCCAT G-3') Reverse (5'-GATCCACACTCTCCAGCTGCA-3')
<i>mTNF-α</i>	Forward (5'-CATCTTCTCAAATTCGAGTGACAA-3') Reverse (5'-TGGGAGTAGACAAGGTACAACCC-3')
<i>mIL-6</i>	Forward (5'-TGGCTAAGGACCAAGACCATCCAA-3') Reverse (5'-AACGCACTAGGTTTGCCGAGTAGA-3')
<i>mIL-10</i>	Forward (5'-GGTTGCCAAGCCTTATCGGA-3') Reverse (5'-ACCTGCTCCACTGCCTTGCT-3')