

## **Supplementary Information**

### **Targeting REDV peptide functionalized polycationic gene carrier for enhancing the transfection and migration capability of human endothelial cells**

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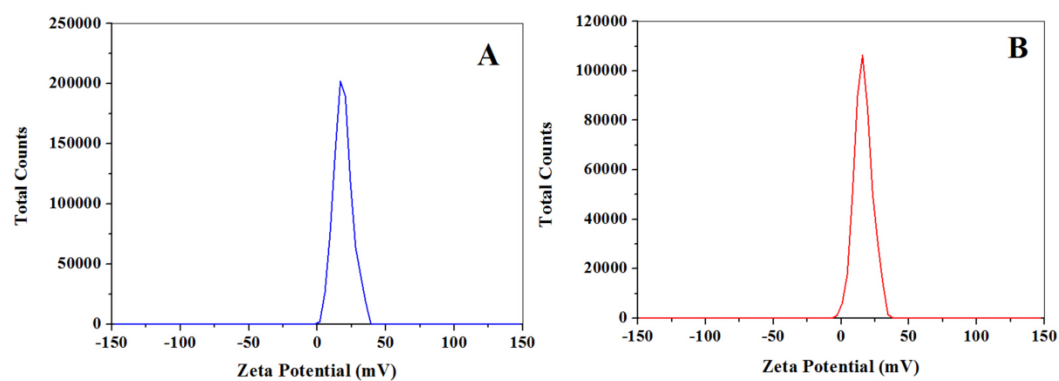
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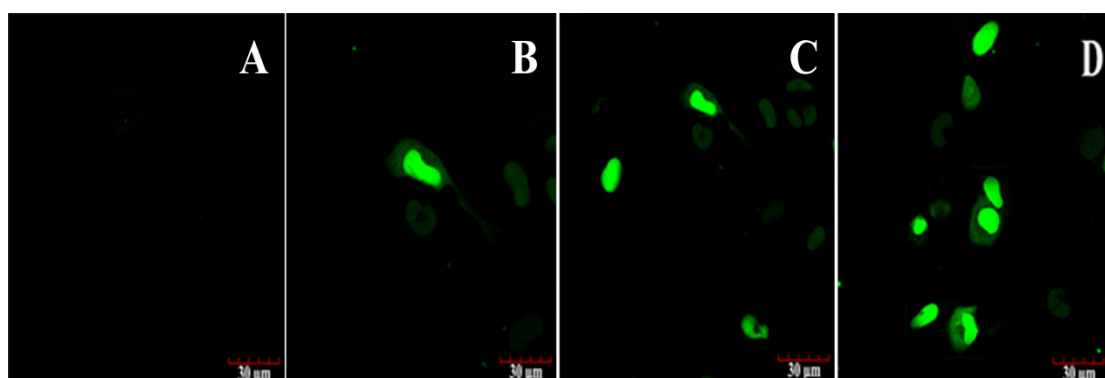
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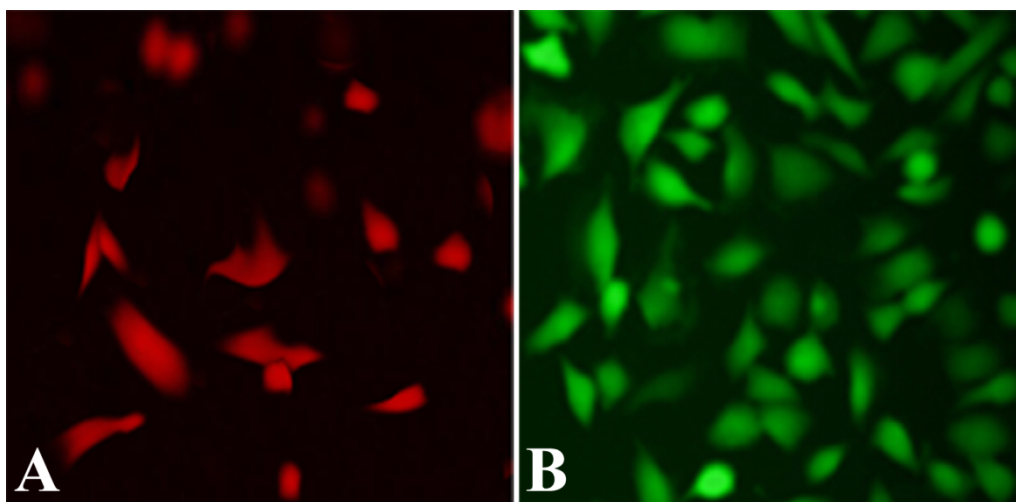
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**Figure S1** Zeta potentials of NP (A) and REDV-NP (B), the samples were prepared in PBS (pH = 7.4, 0.1 M).



**Figure S2** The fluorescence images of EA.hy926 cells mediated by REDV-NP/pZNF580 complexes at the N/P molar ratio of 10 for incubating 0 h (A), 6 h (B), 12 h (C), 24 h (D).



**Figure S3** Fluorescence micrographs of SMCs (A) and ECs (B) with REDV-NP/pZNF580 complexes after 24 h co-culture, image of SMCs marked by  $\alpha$ -SMA (red), image of ECs marked by FITC (green).