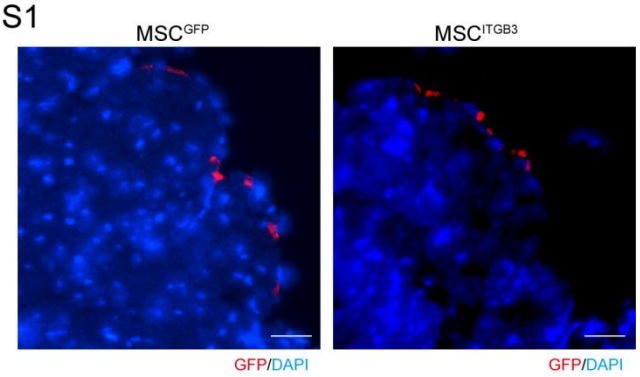
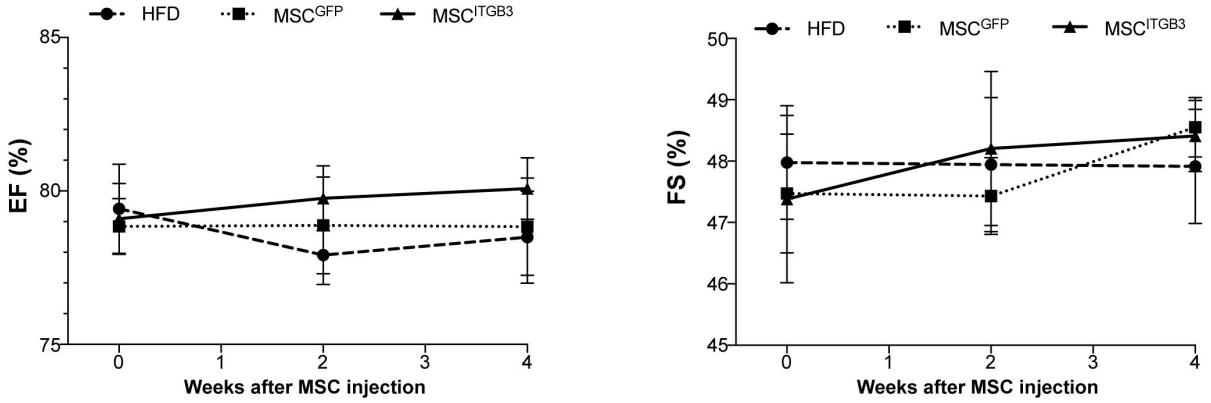
Supplementary Material

S1



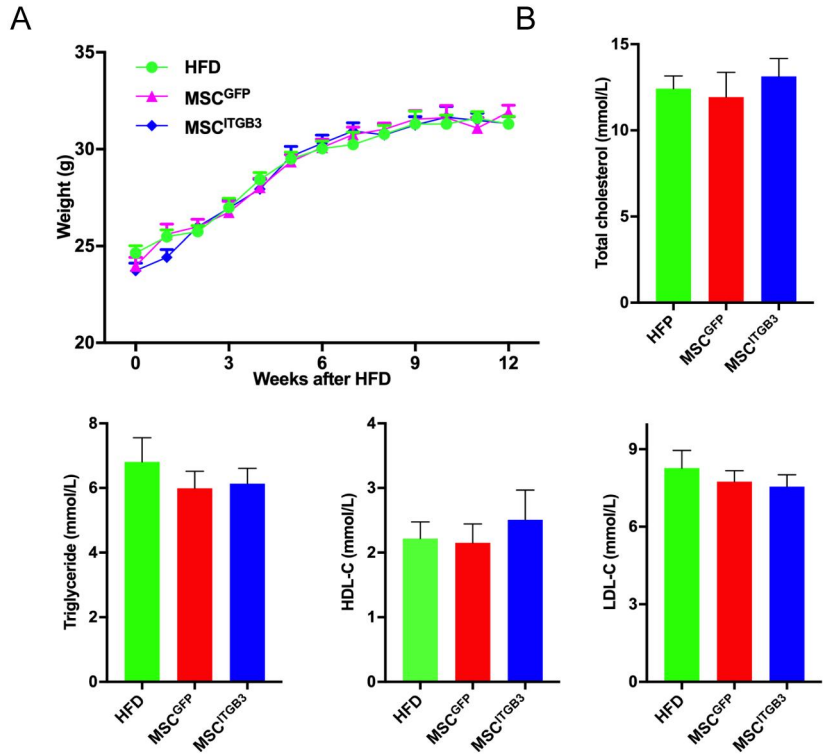
Supplementary Figure 1 Expression of modified MSCs in myocardial tissue in MSC^{GFP} and MSC^{ITGB3} groups. The GFP protein acts as a marker for MSCs. Scale bars = 100 μm.

S2



Supplementary Figure 2 Effects of mesenchymal stem cells on left ventricular ejection fraction and fraction shortening. The analysis showed no statistical difference between the three groups ($P > 0.05$). EF: Ejection fraction; FS: Fraction shortening.

S3



Supplementary Figure 3 Effects of MSCs^{ITGB3} on biochemical parameters of ApoE$^{-/-}$ mice fed a high-fat diet. A: Line chart of weight change; B: Column graph of plasma lipid analyses. MSC: Mesenchymal stem cell; HDL: High-density lipoprotein; LDL: High-density lipoprotein.

Supplementary Table 1 Primers used for quantitative real-time polymerase chain reaction analysis

Gene	Primer forward	Primer reverse
mVCAM1	CTGGGAAGCTGGAACGAAGT	GCCAAACACTTGACCGTGAC
mICAM1	CTGGGCTTGGAGACTCAGTG	CCACACTCTCCGGAAACGAA
mOPN	CCTGGCTGAATTCTGAGGGAC	TGATCAGAGGGCATGCTCAG
mTSG-6	AGGCTGTTTGGCTGACTATGT	TTTCCTGTGCTGATGATGTCTT
mIL-4	CCATATCCACGGATGCGACA	AAGCCCGAAAGAGTCTCTGC
mIL-10	GCTCT TACTGACTGGCATGAG	CGCAGCTCTAGGAGCA TGTG
mIL-6	CTTGGGACTG ATGCTGGTGAC	TTCTCATTTCCACGATTTCCCA
mIL-1β	TGCTGATGTACCAGTTGGGG	CTCCATGAGCTTTGTACAAG
mTNFa	AGCCCACGTCGTAGCAAACCAC CAA	ACACCCATTCCCTTCACAGAGC AAT
β-actin	GGGAAATCGTGCGTGAC	AGGCTGGAAAAGAGCCT
hRunx2	AGGCAGTTCCCAAGCATTTCAT CC	TGGCAGGTAGGTGTGGTAGTG AG
hALP	TACACGGTCCTCCTATACGGAA	CTCTCGCTCTCGGTAACATC
hPPARG	AGATCATTTACACAATGCTGGC	TAAAGTCACCAAAAGGCTTTC G
hFABP4	GGCCAAACCTAACATGATCATC	TTATGGTGCTCTTGACTTTCCT
hGAPDH	ATCTTCCAGGAGCGAGATCCC	TGAGTCCTTCCACGATACCAA