

Supplementary Materials: Genetically Encoded Self-Assembling Iron Oxide Nanoparticles as a Possible Platform for Cancer-Cell Tracking

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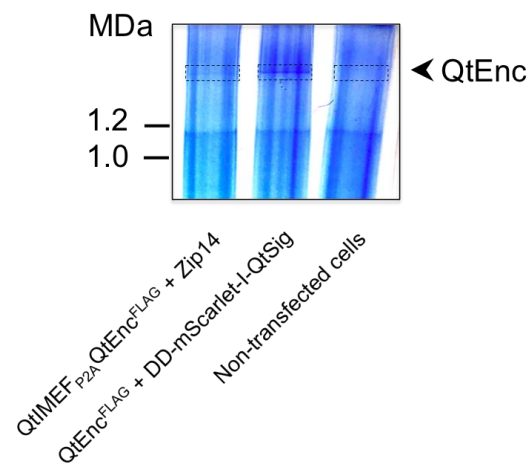


Figure S1. Coomassie-stained Blue Native PAGE gels loaded with cell lysates of HepG2 cells expressing QtIMEF_{P2A}QtEnc^{FLAG} + Zip14 or QtEnc^{FLAG} + DD-mScarlet-I-QtSig, and the lysate of non-transfected cells. All cells were supplemented with 2 mM ferrous ammonium sulfate (FAS) for 24 h. Arrows and frames indicate the bands corresponding to the assembled QtEnc nanoshells that are absent in the lysate of non-transfected cells.

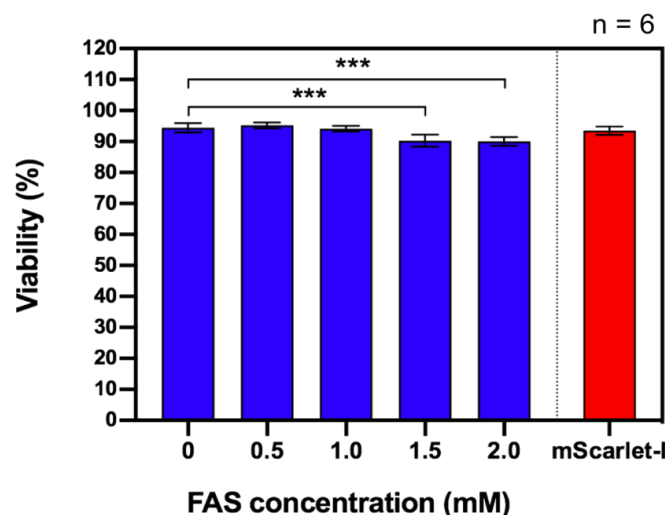


Figure S2. The results of the LDH assay. HepG2 cells were either co-transfected with QtIMEF_{P2A}QtEnc^{FLAG} and Zip14 and cultured in the medium supplemented with FAS in 0–2.0 mM concentration range for 24 h (blue columns) or co-transfected with QtEnc^{FLAG} and DD-mScarlet-I-QtSig and cultured in the medium without Fe supplementation for 24 h (red column). The viability of untransfected cells treated with 0.2% Triton X-100 was taken as 0%. The numbers are plotted as mean values \pm SD ($n = 6$ for each condition). Statistical analysis was done by ordinary one-way ANOVA with Bonferroni's multiple comparisons test (***) corresponds to p -value < 0.001 .

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