# Supplementary

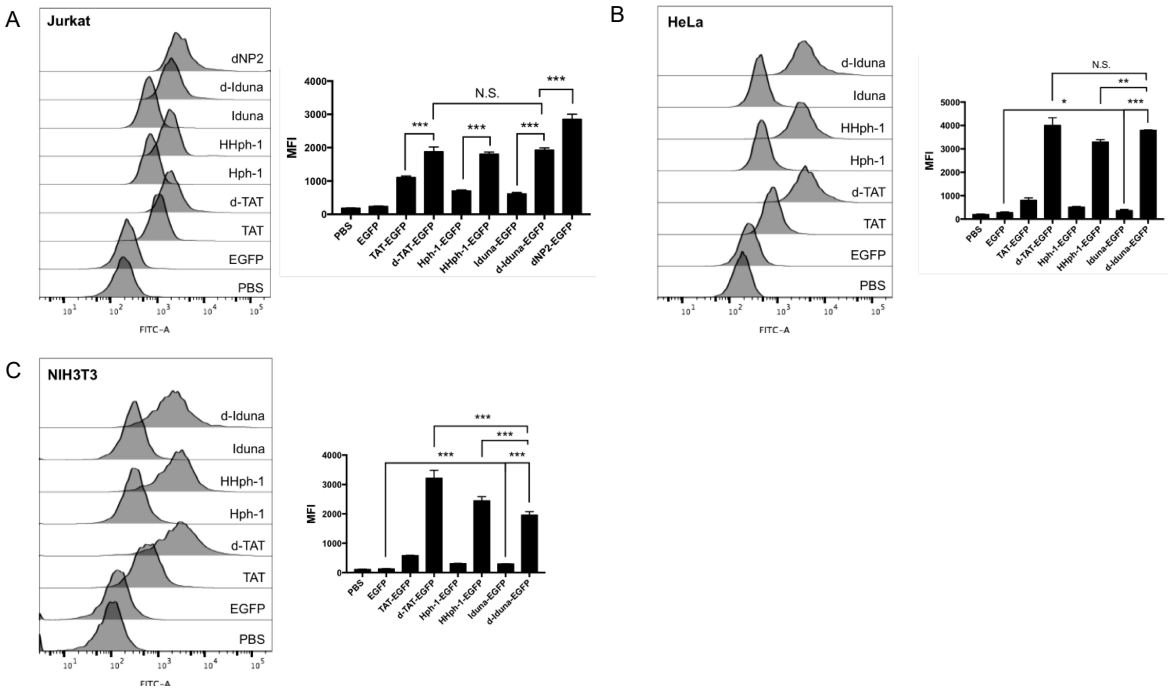


**Figure S1**. In vitro delivery efficiency of single form or tandem repeat form of Iduna derived sequence and other CPPs. Jurkat (**A**), HeLa (**B**) or NIH3T3 (**C**) cells were incubated with 10 μM of Iduna-EGFP, d-Iduna-EGFP and other controls for 1 hour at 37 °C. Intracellular fluorescence was analyzed by flow cytometry. * $p$ <0.05, ** $p$ <0.005, *** $p$ <0.001, $n$ = 3.

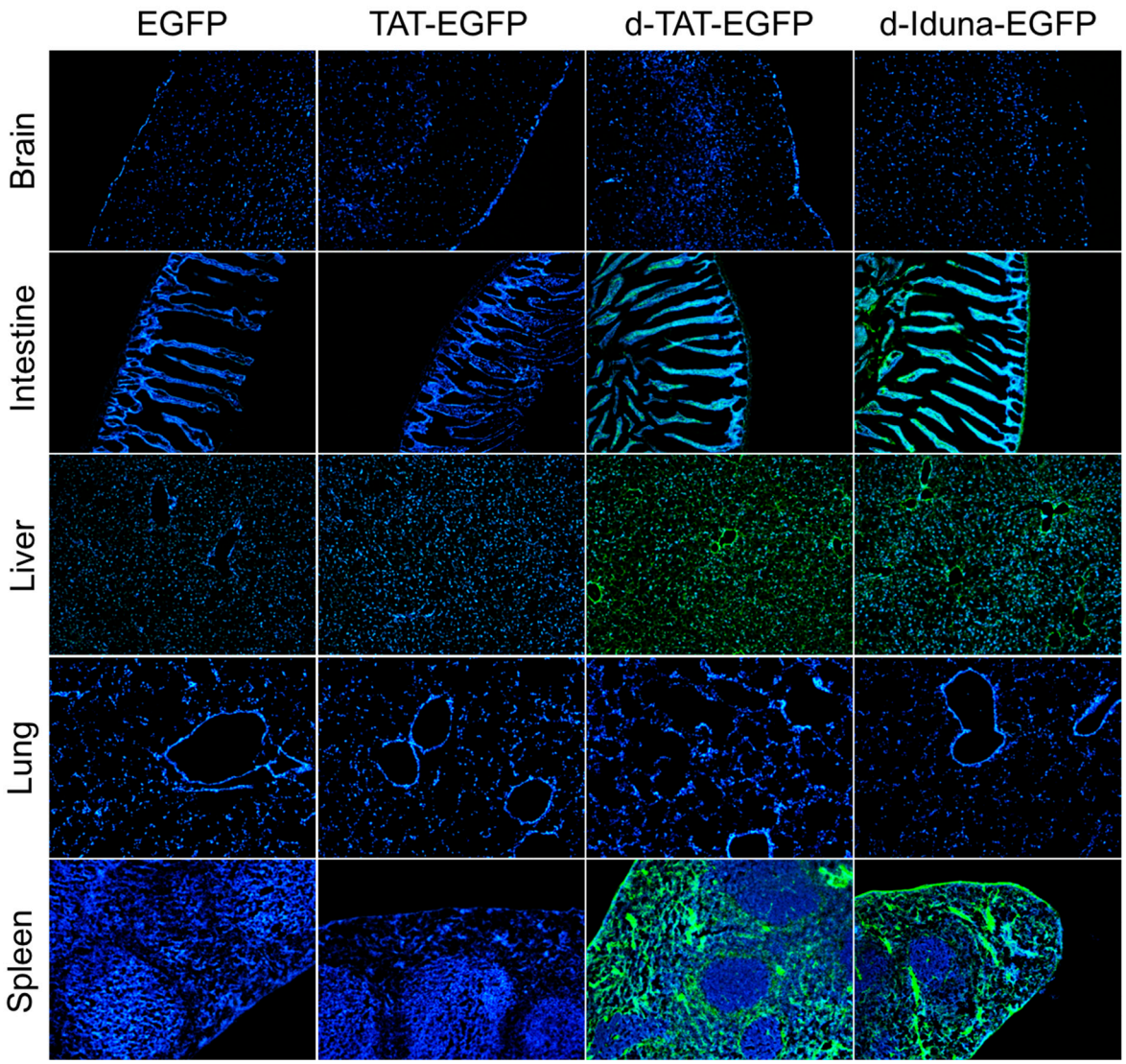


**Figure S2.** In vivo tissue distribution of d-Iduna-EGFP and d-TAT-EGFP upon intravenous injection into mice. 5 mg of d-Iduna-EGFP and other control proteins were injected into 6–8 weeks old mice intravenously for 2 h. Tissue fluorescence were analyzed by fluorescence microscopy with 100× magnification.

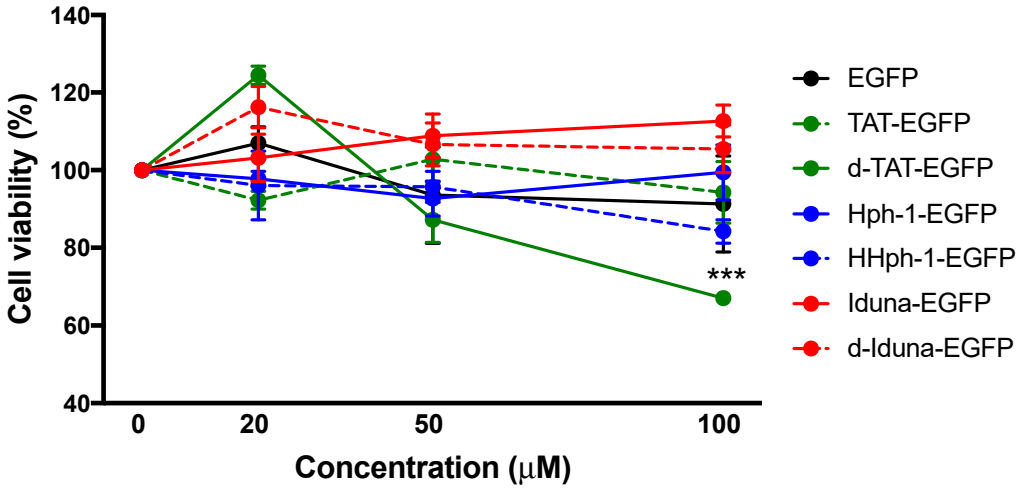


**Figure S3.** Cytotoxicity test of Iduna derived sequence. HeLa cells were incubated with 20, 50 and 100 μM of d-Iduna-EGFP and other control proteins for 24 h. The cell viability was measured by cell counting kit-8 (CCK8) assay. *p*-value of 100 μM of d-TAT-EGFP was compared with 100 μM of d-Iduna-EGFP. *** $p < 0.001$, $n = 3$.