



Supplementary Figure 1. Overexpression of *crip2* in zebrafish embryos. (A-D) The *crip2* mRNAs were injected into one-cell embryos and phenocopies at 48 hpf were analyzed. The yellow arrows and red arrows indicate the cardiac edema and the defect in somite formation, respectively. (E) Quantification of variable phenocopies obtained from 48 hpf zebrafish embryos received different doses of *crip2* mRNAs (15, 35, and 85 pg/embryo *crip2* mRNA). (F, G) The expression level of *has2* in 48 hpf zebrafish embryos was not changed by *crip2* overexpression at AVC region. (F) Uninjected control embryos. (G) Embryos injected with *crip2* mRNA. (H, I) Overexpression of *crip2* did not alter expression level of *versican a* at AVC region of 48 hpf zebrafish embryos. (H) Uninjected control embryos. (I) Embryos received *crip2* mRNAs. White circles include the AVC region.