not rescued by the zebrafish rad21 ^{G277X} mutant mRNA				
		Number of	Number of	Number of
	Number of	embryos	rad21 ^{nz171}	mutants

254

87

mRNA injected, amount	Rescue read-out	experiments	injected	mutants	rescued
Zebrafish <i>rad21</i> , 100 pg	Rescue of hematopoietic runx1 expression	3	156	34	33
	Decrease in phosphohistone H3 labeling	3	90	18	15
	Morphology	1	49	12	11

Embryos were injected at the 1-cell stage with capped mRNA, and rescue of mutants was scored at 14 somites for runx1 rescue, 24 h.p.f. for phosphohistone H3 labeling and at

Rescue of hematopoietic runx1 expression

Morphology

Morphology

48 h.p.f. for morphology. Partial rescue alone was scored because completely rescued embryos would be indistinguishable from wild-type siblings.

Human *RAD21*, 100 pg

Zebrafish *rad21*^{G277X}

mutant mRNA, 100 pg

Table S1. Homozygous rad21^{nz171} embryos are rescued by microinjection of mRNA from zebrafish rad21 and human RAD21, but are