

**Table S2. sgRNAs with complementarity of >20 nt to their target site can guide Cas9.**

Efficiency of repair by an oligonucleotide in the sense direction in experiments using Cas9 and each sgRNA in turn, to yield *sqt-1(sc1)/+* roller animals. \*Relative yield of recombinants in each experiment is calculated by dividing the number of mutant F<sub>1</sub>s with heritable mutations from each experiment by the number of animals positive for the fluorescent transformation marker resulting from the experiment, as a measure of microinjection efficiency.

<b>sgRNA</b>	<b>recombinants</b>	<b>fluorescent</b>	<b>relative yield of recombinants</b>	<b>SD (n=3)</b>
pIK148 5' AUGUGGAGUUGGGGUAGCGU 3'	62	248	32%	26%
pIK172 5' AUCAGCAUGUGGAGUUGGGGUAGCGU 3'	24	175	13%	5%
pIK173 5' AUCCAUCAGCAUGUGGAGUUGGGGUAGCGU 3'	24	537	4%	5%