Sh.463 siRNA target sequence conserved in multiple mosquitoes, but not in non-target species. Adulticidal activity confirmed through Larvicidal activity confirmed through A. aegypti adult microinjection soaking trials in A. aegypti larvae Confirmation of target gene silencing Development of Sh.463 and mode of action in A. aegypti adult yeast larvicide delivery system nervous system Confirmation of target gene silencing Development of Sh.463 siRNA and mode of action in A. aegypti larval ATSB delivery system nervous system Confirmation of Sh.463 siRNA ATSB Confirmation of Sh.463 yeast larvicide activity in simulated field trials activity in lab and semi-field trials Confirmation of adulticidal activity in Confirmation of larvicidal activity in multiple mosquito species and a lack of multiple mosquito species and a lack of toxicity to select non-target arthropods toxicity to select non-target arthropods

S1 Fig. Summary of experimental research plan.