

Additional File 5. Statistical analysis. ns = non-significant; - = the original data was 0 for all repetitions, statistics are therefore not possible. T-test and chi-test were performed as described in Sokal and Rohlf [1].

(A) Chi-test for the reversibility tests

	stat	df	probability	significance
Day 1 (+Tc)	0,0008	1	0,9768	ns
Day 2 (+Tc)	0,0067	1	0,9348	ns
Day 3 (-Tc)	0,0152	1	0,9020	ns
Day 4 (-Tc)	0,0098	1	0,9213	ns
Day 5 (-Tc)	0,0120	1	0,9127	ns
Day 6 (-Tc)	0,0139	1	0,9060	ns
Day 7 (-Tc)	-	-	-	ns
Day 8 (+Tc)	0,0314	1	0,8593	ns
Day 9 (+Tc)	0,0088	1	0,9251	ns
Day 10 (+Tc)	0,0059	1	0,9389	ns

(B) T-test for the efficiency tests.

		stat	df	probability	significance
LL #29	L1 larvae	4,9448	2	0,1270	ns
	pupae	0,1624	2	0,8975	ns
	adults	0,1177	2	0,9254	ns
LL #72	L1 larvae	2,2391	2	0,2673	ns
	pupae	0,8260	2	0,5604	ns
	adults	1,4728	2	0,3797	ns
LL #66	L1 larvae	1,6379	2	0,3489	ns
	pupae	-	-	-	-
	adults	-	-	-	-
LL #67	L1 larvae	-	-	-	-
	pupae	-	-	-	-
	adults	-	-	-	-
LL #68	L1 larvae	0,6821	2	0,6188	ns
	pupae	0,2245	2	0,8593	ns
	adults	-	-	-	-
WT	L1 larvae	1,6911	2	0,3399	ns
	pupae	1,3158	2	0,4137	ns
	adults	1,9443	2	0,3024	ns

(C) T-test for the competition tests. Ratios describe WT females: WT males: transgenic males.

	stat	df	probability	significance
1:1:0	0,9017	10	0,4182	ns
1:1:1 (LL #66)	0,7000	10	0,5151	ns
1:1:3 (LL #66)	1,0101	10	0,3588	ns
1:1:5 (LL #66)	1,4861	10	0,1974	ns
1:1:9 (LL #66)	1,0613	10	0,3371	ns
1:1:1 (LL #67)	0,1265	10	0,9043	ns
1:1:3 (LL #67)	0,0690	10	0,9477	ns
1:1:5 (LL #67)	1,7320	10	0,1438	ns
1:1:9 (LL #67)	1,4029	10	0,2196	ns
1:10:0	0,0987	10	0,9261	ns

Reference

1. Sokal RR, Rohlf FJ: Biometry: the principles and practice of statistics in biological research, 3rd edn. New York, NY: W.H. Freeman and Co.; 1995.