Table S1. Genetic interaction experiments for tutl and trc Genotype

	tutl <sup>23</sup> /+; trc <sup>-</sup> /+	28	27.9
Class IV (ddaC): crossing points per 1000 µm of dendritic length <sup>†</sup>			
	tut  <sup>23</sup> /+	10	7.5

tutl<sup>23</sup>/+: trc<sup>1</sup>/+ Double heterozygotes for trc and tutl have no enhanced branching defects (class I) or self-avoidance defects (class IV) compared with tutl

heterozygotes alone.

Class I (ddaE): termini per neuron\*

n, number of neurons examined; s.e.m., standard error of the mean.

trc1/+

tutl<sup>23</sup>/+

 $trc^{1}/+$ 

n

21

32

Mean

29.0

26.8

5.8

s.e.m.

0.9

0.8 0.7

0.4

0.4

0.5

\*There is no significant difference between any two of the three genotypes listed (ANOVA, Tukey, P=0.18).

\* $tutl^{23}$ /+:  $trc^{1}$ /+ double heterozygotes are not significantly different from  $tutl^{23}$ /+, but  $trc^{1}$ /+ heterozygotes and  $tutl^{23}$ /+ heterozygotes are different from one another (ANOVA, Tukey, P=0.0022).