

Table S1. Effects of diet dilution on adult weight in *torso-like* mutants and heterozygotes

Adult Male Weight (log ₁₀)		
	Sums of Squares	<i>F</i> value
Food Concentration	0.46	65.97***
Genotype	0.07	9.49**
Food Concentration * Genotype	0.05	6.96*
Adult Female Weight (log ₁₀)		
Food Concentration	0.91	113.72***
Genotype	0.21	25.82***
Food Concentration * Genotype	0.07	8.96**

Data was fit with linear models with log₁₀(adult weight) as the response variable and food concentration and genotype as the fixed effects (males: $F_{3,66}=27.37$, adjusted $R^2=0.53$, females: $F_{3,68}=52.56$, adjusted $R^2=0.69$). Significant differences are shown in bold: * $P<0.05$, ** $P<0.01$, *** $P<0.001$.

Table S2. Effects of diet dilution on adult weight in *chico* mutants and heterozygotes

Adult Male Weight (log ₁₀)		
	Sums of Squares	<i>F</i> value
Food Concentration	0.09	36.05***
Genotype	1.16	481.25***
Food Concentration * Genotype	0.07	30.91***
Adult Female Weight (log ₁₀)		
Food Concentration	0.26	49.15***
Genotype	1.49	278.67***
Food Concentration * Genotype	0.11	20.84***

Data was fit with linear models with log₁₀(adult weight) as the response variable and food concentration and genotype as the fixed effects (males: $F_{3,66}=178.4$, adjusted $R^2=0.89$, females: $F_{3,68}=52.56$, adjusted $R^2=0.69$). Significant differences are shown in bold: * $P<0.05$, ** $P<0.01$, *** $P<0.001$.