length of vagal, sacral or trunk neural tube (see Fig. 5) Duodenum Small intestine

(A versus B, P=0.114; A versus C, P=0.434; B versus C, P=0.739).

62.4

A (3-6 ablated + O3)

(= = = = = = = = = = = = = = = = = =					
B (3-6 ablated + Q Sacral)	65.5	56.3	38.7	50.9	43.4
C (3-6 ablated + Q Trunk)	54.5	62.7	51.2	56.8	37.4
To determine whether the densities of the ENS networks were significantly different between the three experimental groups (3-6 ablated + Q3, 3-6 ablated + Q sacral, 3-6 ablated + Q trunk), computerised image analysis was performed. Images were saved as Jpegs (Adobe Photoshop) and					
analysed using ImageJ software (www.nih	.gov). The percentage ar	ea covered by TuJ1 im	munohistochemical s	taining was measured	d for each

59.4

Umbilicus

47.4

Cecal buds

56.0

Hindaut

55.0

Table S1. Quantitative image analysis of ENS networks following 3-6 ablation and grafting of one somite

t-tests were performed. Differences between the densities of ENS networks within the gut regions of each group were not statistically significant