Supplementary Information

Table S1. Comparison of change in APN mRNA by two methods in nestlings switched from lower protein to higher protein diet.

Diet group	Age (d)	APN activity$^\alpha$ (μmol min^{-1} g^{-1} tissue)			APN mRNA$^\beta$ (Method 1)			APN mRNA$^\gamma$ (Method 2)		
		n	Mean	S.D.	*n*	Mean	S.D.	*n*	Mean	S.D.
Eating lower protein diet S for prior 3 d	6	12	4.83	0.73	9	0.000#	0.264	9	0.000##	0.121
Initially ate lower protein diet S for 3 d, then switched 1 d to higher protein diet P	7	12	6.53	1.54	10	0.602	0.237	10	0.686	0.460
t-test comparison†		t_{22}=3.35, *P*=0.003			t_{16}=3.99, *P*<0.0001			t_{16}=5.05, *P*=0.0012		

$^\alpha$data from (Rott et al., 2017b) – Rott et al. (2017)

$^\beta$ estimated using the data driven normalization procedure (Norma-gene algorithm) according to (Heckmann et al., 2011)- Heckmann *et al.* (2011)

$^\gamma$ estimated using a reference gene (GAPDH) according to (Schmittgen and Livak, 2008) – Schmittgen & Livak (2008), the comparative C(T) method

$^{\#\,\&\,\#\#}$actual computed values were #: 3.08x10^{-18} and ##: 1.11x10^{-4}

†*t*-test for pooled variances, after confirming data were normally distributed (Lilliefors test) and homoscedastic (Levene's test) (Wilkinson, 2009)