



**Figure S6** Example evolution of gene expression. Quantitative RT-PCR was used to monitor the expression of 41 transcripts located within regions showing laboratory adaptation in at least one diet. 23 of these showed a significant difference in abundance between the 12 flies sampled from one replicate of each diet. *BG4* expression is approximately 4-fold down-regulated on the high fat diet relative to the low sugar diet, as it shows Ct counts elevated by 2 cycles.