Figure S6. Correlation of gene expression level with ratio of synonymous and non-synonymous substitution rates.

Synonymous (Ks) and non-synonymous (Ka) substitution rates were determined for each gene from recombinant regions (Table 1). The in vivo data was from Bina et al. [1]. Statistically significant correlation was found between Ks/Ka and expression level (Spearman rank correlation, r = -0.146, P = 0.0001). Genes were further divided into 2 groups by the expression level (above and below 1.5) and the Ks/Ka ratios (< 4.0 and >= 4.0) as shown by the horizontal and vertical lines respectively. The division is statistically significant (P = 0.027, Fisher’s exact test).