



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).

1. Bina J, Zhu J, Dziejman M, Faruque S, Calderwood S, et al. (2003) ToxR regulon of *Vibrio cholerae* and its expression in vibrios shed by cholera patients. *Proc Natl Acad Sci U S A* 100: 2801-2806.