

Supplemental Figure 1. Distribution of gene expression ratios. Ratios of gene expression, under conditions of N-deprivation vs N-sufficiency, are indicated for deprivation of 3 h (green), 8 h (blue), and 24 h (red), using data from Ehira and Ohmori (2006). The ratios are expressed as logs in base 2, so each major division represents a 2-fold change in expression. **(A and B)** The 1539 genes that have stable expression levels, significantly above background for all experimental conditions, are arranged in ascending order (left to right) of expression ratio. The gentle positive slope in the middle of the graph is expected, as genes that might have a low expression ratio by chance under one condition would be more apt to have a higher expression ratio by chance under the other. Expression ratios were based on signals that were **(A)** normalized to total fluorescent intensity or **(B)** normalized as in **A** but additionally adjusted to equalize median expression ratios. **(C)** Expression ratios were averaged over 50 genes centered around the indicated gene. The genes are arranged, left to right, in descending order of average expression in the presence of nitrate. Values are shown only for those 50-gene windows where at least half of the genes pass the background filter under both nitrogen-deprived and nitrogen-replete conditions.