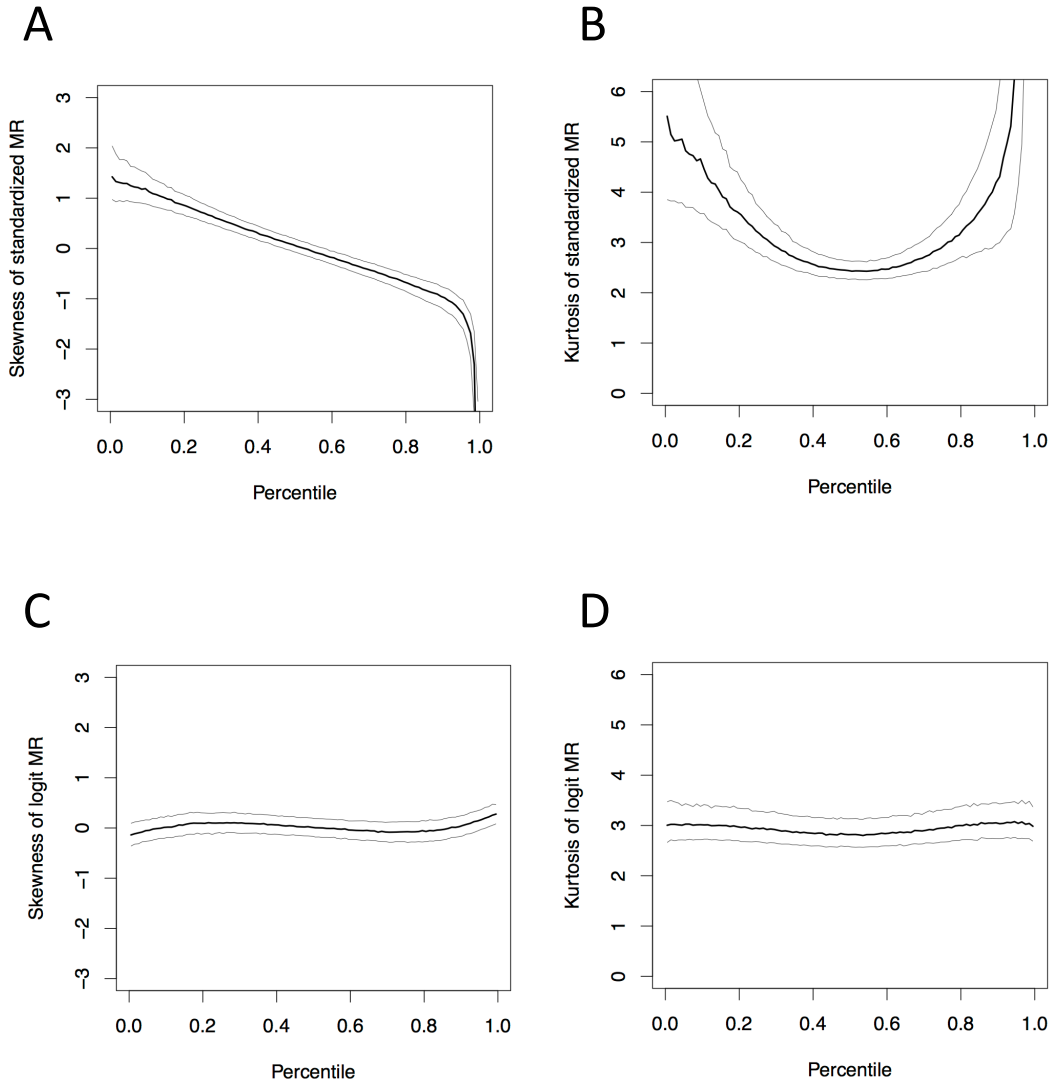


**Supplementary Figure 1.**

Number of annotations of Gene Ontology Biological Process for each gene depends on the expression level. Arabidopsis genes having at least one Gene Ontology Biological Process terms were divided into 4 levels according to its average expression level on Ath-m. The level 1 is the lowest quarter, while the level 4 is the highest quarter.



### Supplementary Figure 2.

Properties of error distributions of MR and logit-MR values. The error distribution of MR values in RNAseq-based Arabidopsis coexpression data (Ath-r.c3-0) is shown using a bootstrapping approach. The skewness (A,B), and kurtosis (C,D) of bootstrapped MR values (A,C) or logit-MR values (B,D) are shown versus the mean of the bootstrapped MR values. The black lines show the median values with a sliding window corresponding to the 0.01 percentile of the MR without overlap, whereas the gray lines represent the first and third quantiles.