



Supplemental Fig. S34. Correlation analysis between evolutionary constraint and expression polymorphism. (A) Distribution of Ka/Ks values in different categories of *cis*- and *trans*-regulated genes, which are shared in the liver tissue of reciprocal cross hybrids (F_1 - F_3). (B) Correlation analysis of Ka/Ks values and the relevant $\log_2 |\text{TC/BSB}|$ values of parents (red) and hybrids (blue) in the respective *cis*-regulated genes of different samples (BTf₁-BTf₃, TBF₁). The correlation coefficients related to the $\log_2 |\text{TC/BSB}|$ values of hybrids (blue) are 0.2706, 0.355, 0.1868 and 0.2564 in BTf₁-BTf₃ and TBF₁ (all P -values < 0.05, Pearson correlation coefficient), respectively, while the correlation coefficients related to the $\log_2 |\text{TC/BSB}|$ values of parents (red) are 0.3052, 0.3808, 0.1696 and 0.2158 in BTf₁-BTf₃ and TBF₁ (all P -values < 0.05). Other hybrids (TBF₂-TBF₃) exhibited no significant correlations.