

## **Supplementary Materials**

### **Legends of Supplementary Tables and Figures**

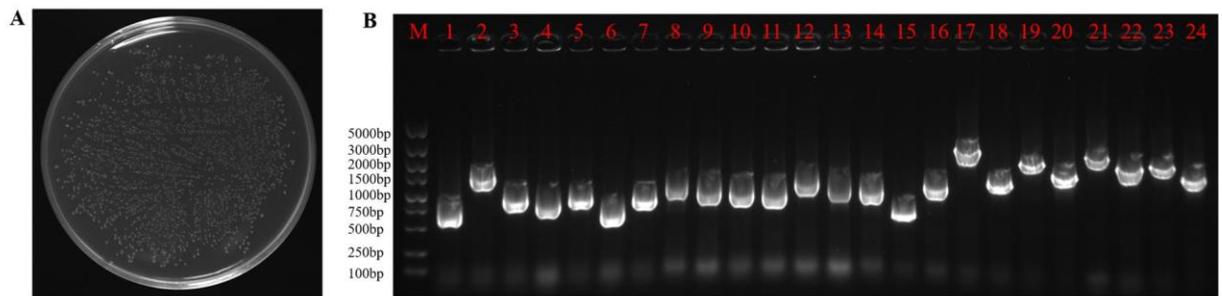
**Figure S1.** Construction and analysis of the primary library

**Figure S2.** Yeast colony PCR

**Figure S3.** Score scatter plot of the PCA model for Groups A, B and C

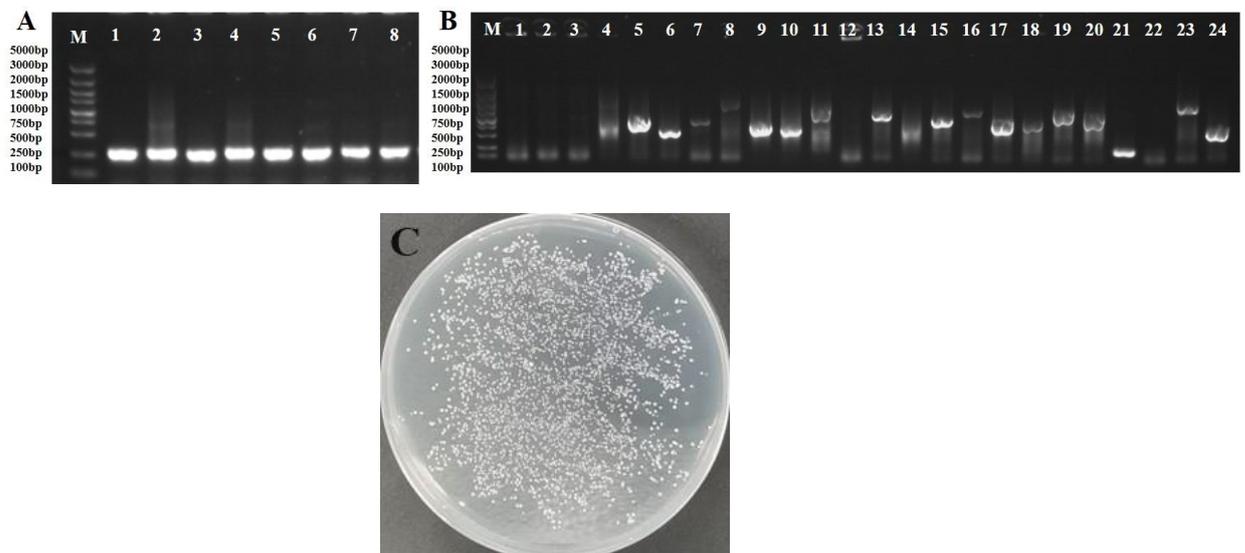
**Table S1.** Validation of the OPLS-DA model

**Table S2.** Heat map of all metabolites



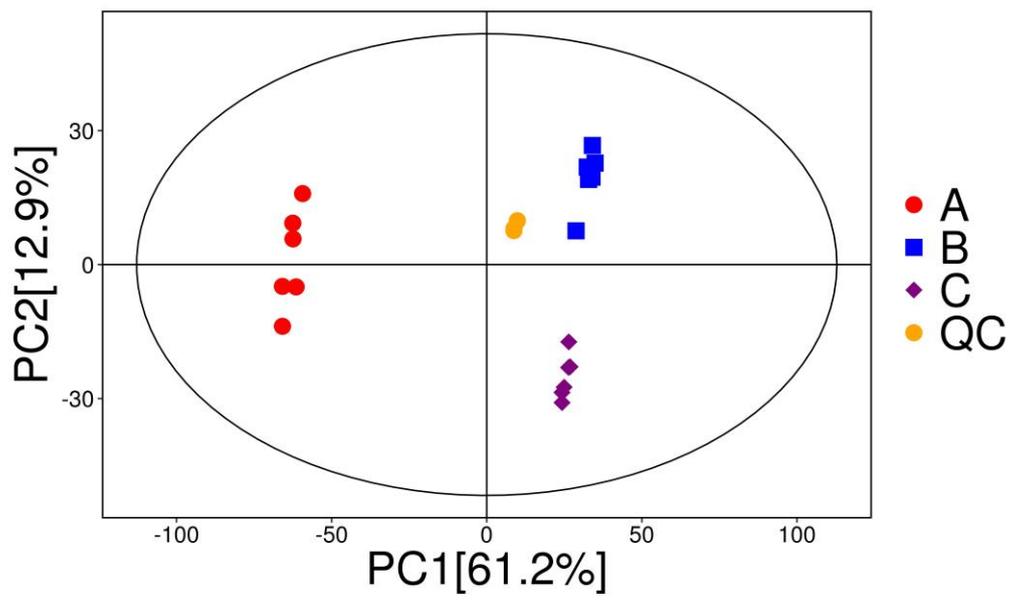
**Figure S1:** Construction and analysis of the primary library.

A): *E. coli* colony count. *E. coli* colony plates were photographed after 12 h, the dilution ratio was 10000, and the number of plate clones was about 2456. B) Library quality evaluation. *E. coli* colony PCR, M: Maker, 1-24:24 clones were randomly selected for PCR, and electrophoresis was performed after PCR.

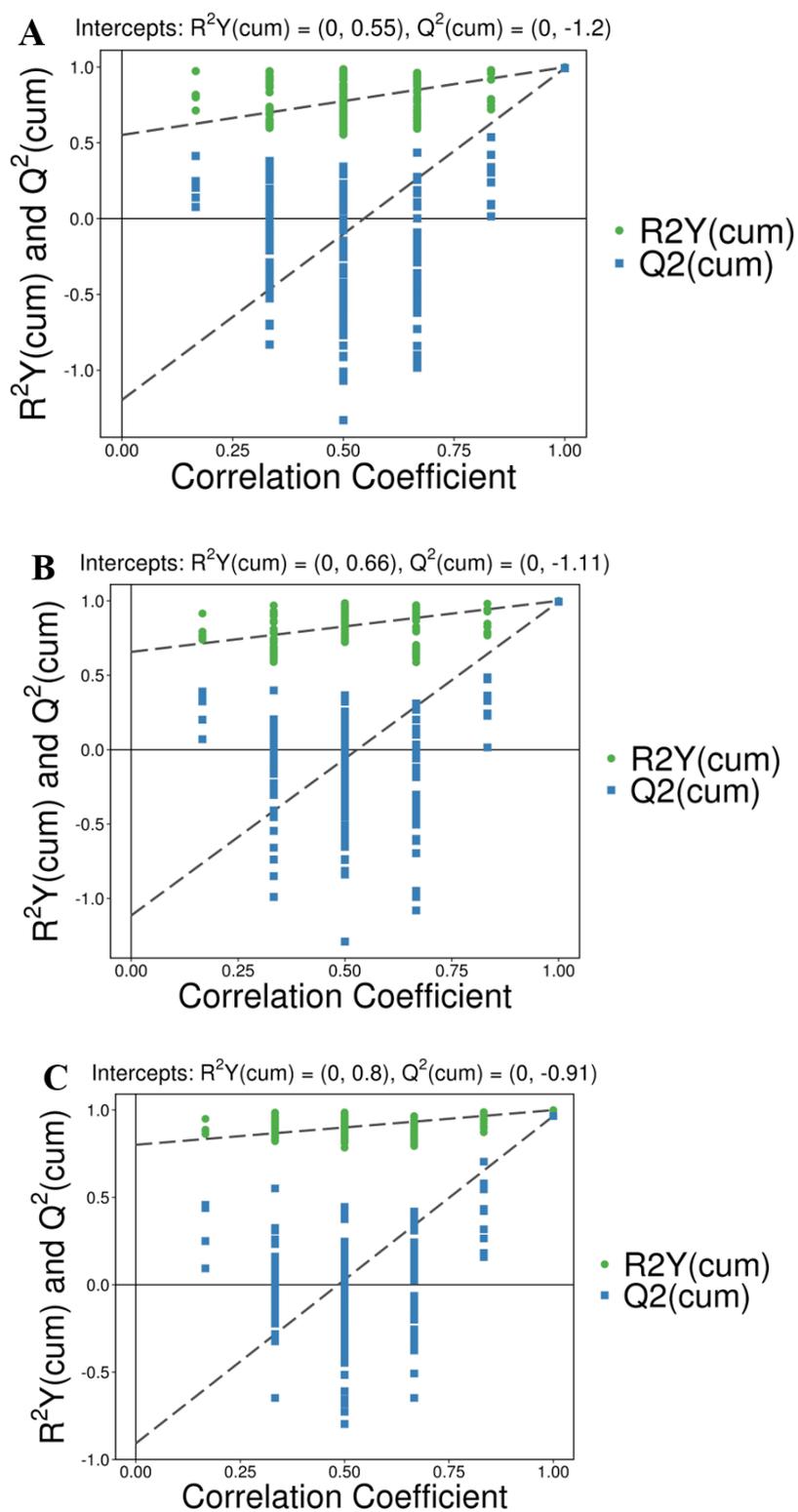


**Figure S2:** Yeast colony PCR

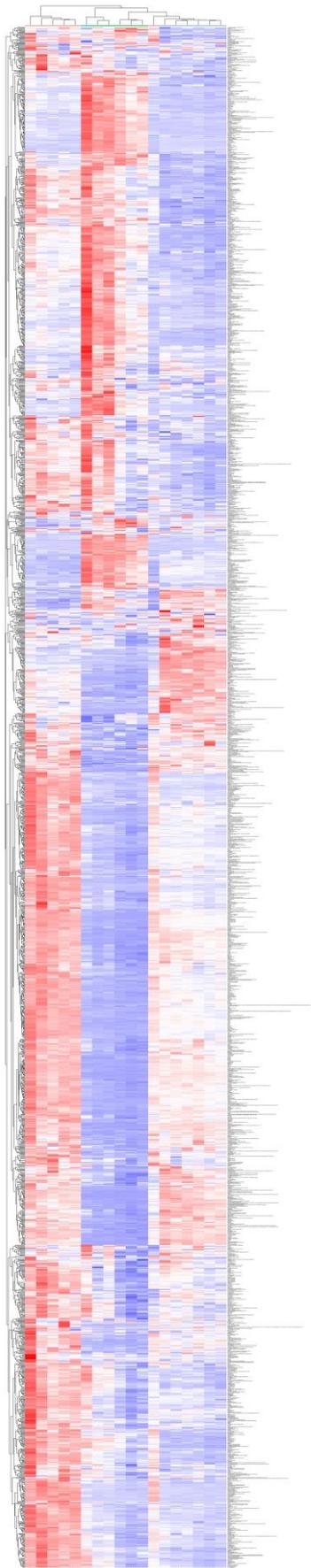
A): PCR of empty plasmid pYES2 clones. B): PCR of blueberry library clones. C): Yeast stock solution coated after 10,000-fold dilution.



**Figure S3:** Score scatter plot of the PCA model for Groups A, B and C.



**Figure S4:** Validation of the OPLS-DA model. A): A and B. B): A and C. C): B and C.



**Figure S5:** Heat map of all metabolites.