Supplementary Material

# Supplementary Figures and Tables

## Supplementary Figures



**Supplementary Figure 1.** *C. albicans* 24-h biofilm formation in the presence of different concentrations of *S. mutans* MVs. (A) Crystal violet assay. (B) XTT assay. (The experiments were performed in 3 distinct replicates, and the data are presented as the means ± SD, **\*\*\***: *P* < 0.001 vs. control group, using PBS as control group.



**Supplementary Figure 2** The effect of *S. mutans* MVs on *C. albicans* growth under planktonic conditions. (A) *C. albicans* 24 h growth kinetics; (B) Morphological characteristics of *C. albicans* grown under planktonic conditions for 24 h. Magnification 2,000×; scale bar, 5 μm.



**Supplementary Figure 3** Expression of *C. albicans* biofilm-related transcriptional regulators. (A) The nine master regulators required for biofilm development. (B) Regulators related to adhesion. (C) Regulators related to extracellular matrix production. The experiments were performed in 3 distinct replicates, and data are presented as the means ± SD, **\***: *P* < 0.05, **\*\***: *P* < 0.01 vs. control group, using PBS as control group.



**Supplementary Figure 4** Negative staining TEM of *S. mutans* MVs from biofilm culture. The white arrows indicate the *S. mutans* MVs, Scale bar, 100 nm.

## Supplementary Tables

**Supplementary Table 1** Sequences of primers used for RT-PCR.

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| --- | --- |
| **Target** | **Primer Sequence (5’-3’)** |
| ***Pma1*** | FW- TTGCTTATGATAATGCTCCATACGA  RV- TACCCCACAATCTTGGCAAGT |
| ***Ndt80*** | FW- AATCGAGGACGAGGACTTGC  RV- GTTGGGGTGTTTGTAGCCCT |
| ***Bcr1*** | FW- TGGGTGGTGGTCAAGAACAA  RV- TGCCAATGGTTCGGGTCTTC |
| ***Rfx2*** | FW- AACCCGTGTCGACTGGTAAC  RV- TTCGGAGTCAACACAGCCTC |
| ***Flo8*** | FW- CATTGGCACCAACTCAAGCC  RV- CCTGGGCCACTTACACTGAG |
| ***Rob1*** | RV- TTCTTGTGGTTGTGGTTCGTC  FW- AGCCAAAACATGAATACCACG |
| ***Gal4*** | FW- AGTGAAGTTGGAGCCGTCAG  RV- ACAGTTTCATCGACCACACCT |
| ***Tec1*** | RV- AGTAGGTGGAACAAAAGTGCC  FW- GCTCAGTAGCTTCACAACTGC |
| ***Efg1*** | FW- TATTACCAGGGTGGTGCTGC  RV- TGTTGGGGTGAAGGGTGAAC |
| ***Brg1*** | FW- GGGTTATTCCACGCTAAATTG  RV- TATTCTTCGACCGTTCCTCCC |
| ***Mnn9*** | FW- TGGGTCTTATGGTTGGATGCAG  RV- GGTGGACATTAGCGGAAACG |
| ***Mnn1*** | FW- CGGATGGTTATGGGAGTCGG  RV- CTCCGTGCCTACCCAAATGT |
| ***Pmr1*** | FW- AGCATGGTCTCCAACCACAG  RV- TGGGACAATCGATCGCAAGG |
| ***Van1*** | FW- AGGCAATCCACCAACACTGA  RV- TGTCGATATTGGCACGAGCA |
| ***Big1*** | RV- ATGGAAGAAACCCCAGCTTCG  FW- TGGATTCCAATTTGGTTCTACTTTG |
| ***Gsc1*** | RV- GAGTCGTCGTATGCTATTTTTGGTG  FW- TCCAACAATCGACACAGCAT |
| ***Gca1*** | FW- CCACCATACGCAATCAATAACA  RV- GCTTCGTAAATGGCACGTTCT |
| ***Gca2*** | FW- AACAAGCAGCAGTAGCGCC  RV- CATTGGCGTCAACAGCAGTATC |
| ***Als1*** | FW- AGAACTGATTTGCAGTGATGG  RV- TGAGGATTCATTGCTATCTGG |
| ***Als2*** | FW- GGGTTCACAATTGGCAGTGG  RV- CGATAACCAGCGGGGACATT |
| ***Csh1*** | FW- GGTTGGCACCAATTCATCTCC  RV- CGACACAAAACACCACCACC |
| ***Eap1*** | FW- TGTGATGGCGGTTCTTGTTC  RV- GGTAGTGACGGTGATGATAGTGA |
| ***Als3*** | FW- GCAACGTGCACCTTTCACAT  RV- TCGCGGTTAGGATCGAATGG |
| ***Hwp1*** | FW- TGAACCTTCCCCAGTTGCTC  RV- ATAGCACCACTTGAGCCAGC |