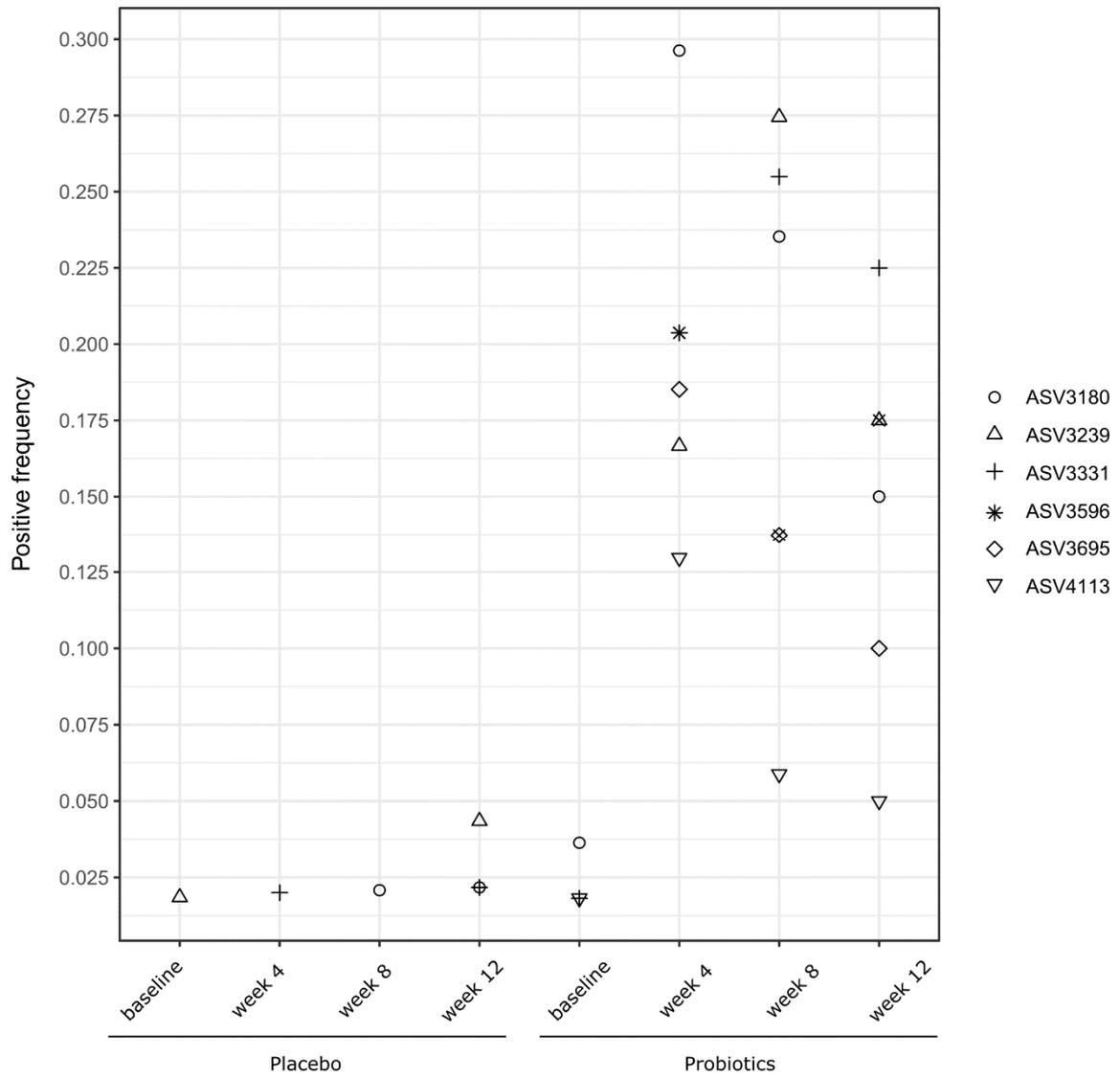


A



B

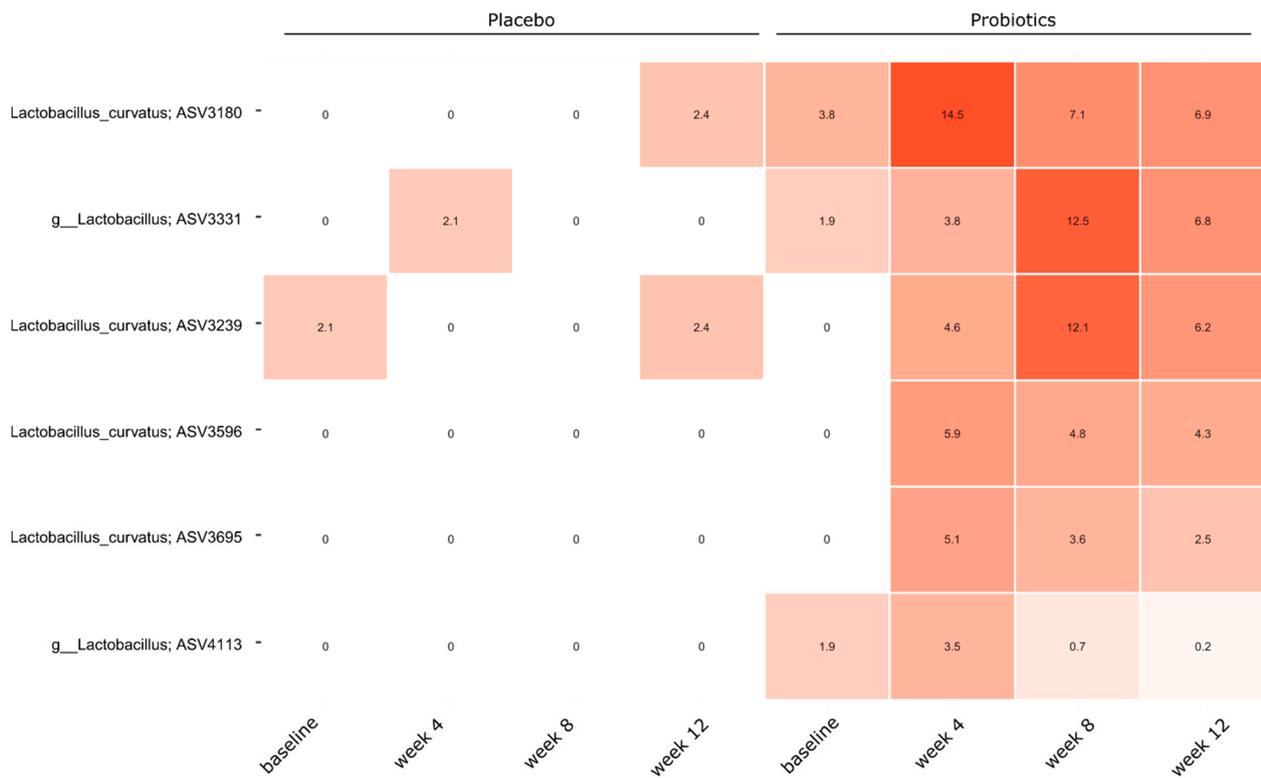


Figure S1. Identification of probiotic strains. Probiotic strains were identified using six reference ASVs (ASV3180, ASV3239, ASV3331, ASV3596, ASV3695 and ASV4113). (A) Positive frequency of each ASV in the placebo and the probiotics group at baseline, week 4, week 8 and week 12. (B) Relative abundance of the six ASVs expressed as percentage of total abundance of genus *Lactobacillus* in the placebo and the probiotics group at baseline, week 4, week 8 and week 12.

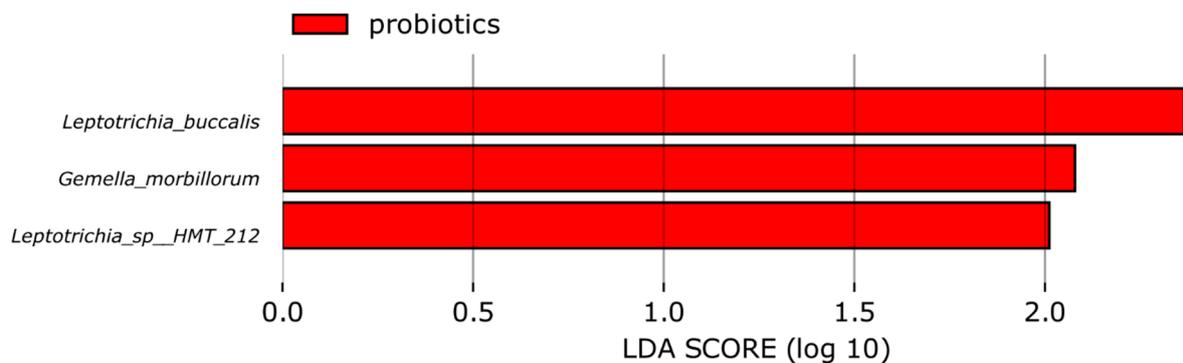


Figure S2. Probiotics-associated bacterial species. Linear discriminant analysis Effect Size (LEfSe) analysis demonstrating bacterial species associated with samples collected from the probiotics group versus the placebo group at week 12.