

Fig. S1. Decision scheme for predicting recombinant sequence origins. For each recombination sub-tree, the topologies after the first major split were used to predict whether recombinant sequences originated from an (ancestral) clade A or clade B *E. faecium* strain, or from a species outside *E. faecium* when the recombinant sequences clustered separately from both clades. Inconclusive predictions are also indicated in the figure. * In cases where recombinant sequences clustered with \geq 3 clade A and \geq 3 clade B strains in one split, the recombinant sequence origin was predicted to be *E. faecium* (i.e. unclear whether it was clade A or B). The number of times each origin was predicted is indicated between brackets.