

Table S1 Primers of CarRP-up-F/CarRP-down-R and ACOT8a-c in *M. circinelloides* WJ11

Primer name	Primer sequences
CarRP-up-F	GATAA GCATA AACCA GATCT GC
CarRP-down-R	GTATC TGACA TAGTC GAGCT TC
ACOT8a-F1	GCT TCC TTC GGA CGT CGA ATT AC
ACOT8a-R1	TCT CTT GTC TGA TCC AAG TGT TCC
ACOT8b-F1	GCA ATC TTC GTG GCC AGT TG
ACOT8b-R1	CGT CTG TCT TCC AAT TTC TTT TGA GC
ACOT8c-F1	CTC CTT ACG GTC AAA GAT GGT TC
ACOT8c-R1	GAA CCA TCT TTG ACC GTA AGG AG

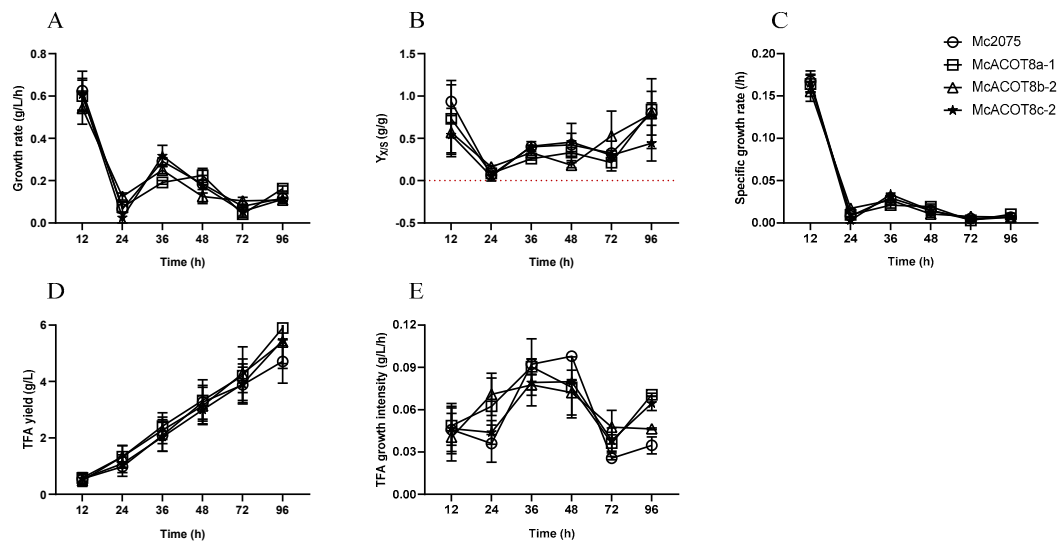


Figure S1 The growth rate (A), Y_{XS} (B), specific growth rate (C) total fatty acid yield (D) and TFA growth intensity (E) of control and engineering strains.