

Supplementary Material

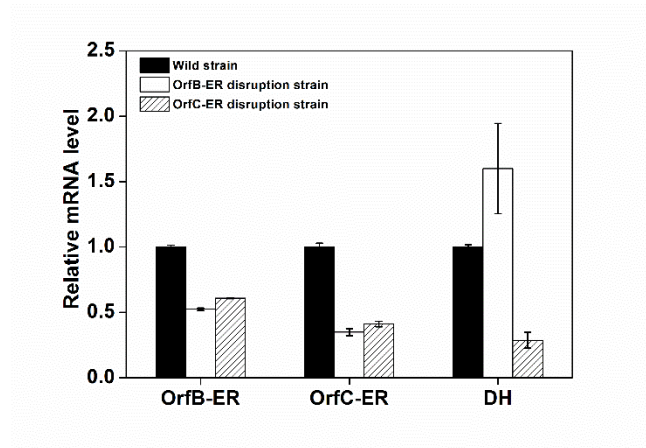
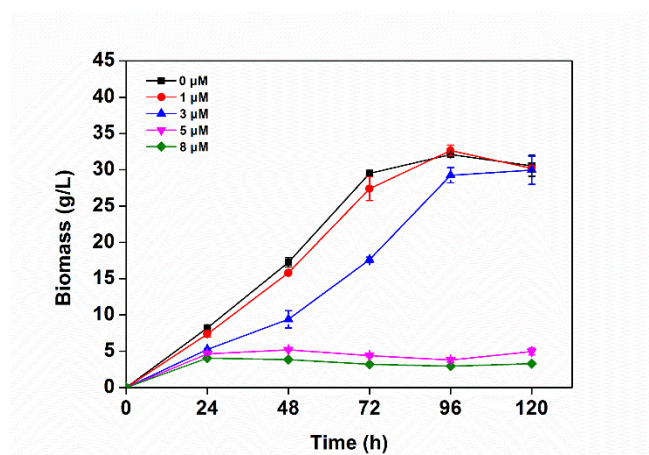
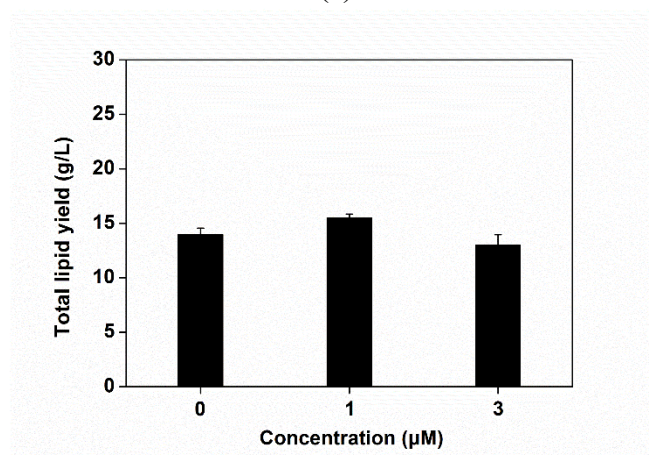


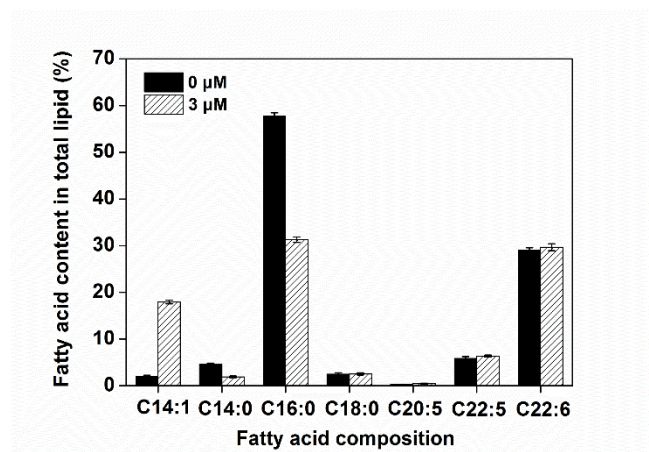
Figure S1. The gene expression profile of the OrfB-ER, OrfC-ER and DH at maximum lipid content period by RT-PCR from wild strain, OrfB-ER gene disruption strain and OrfC-ER gene disruption strain. OrfB-ER means ER gene located on OrfB gene cluster; OrfC-ER means ER gene located on OrfC gene cluster; DH means beta-hydroxyacyl-acyl carrier protein dehydratases.



(a)



(b)



(c)

Figure S2 Effect of different concentration of triclosan added at 0 h on (a) Biomass, (b) Total lipid yield at 120 h, and (c) Fatty acid content in total lipid at 72 h.

Table S1. Primers used in vector construction and PCR verification of mutants

Primers	Sequence(5' -3')
B-UF (A)	AGGGGTACCGGATCTTGGCAGCCGTGCCTTCATG
B-UR (B)	CGCATCGATCGAGCTGCGGGGTCAAGGTCATAAA
B-DF (C)	CGTCTGCAGTGGCCCCAGCAGCTGACATG
B-DR (D)	GCCGGATCCCGCAAGAAGCAGGCACCACG
C-UF (E)	AAGTCGACATGCTGACCTTGTGATTGC
C-UR (F)	AAGTCGACATGCTGACCTTGTGATTGC
C-DF (G)	GTCCTGCAGTCTCATCAACCTCCGCAACC
C-DR (H)	CGCGGGATCCAGGCATGGACTCGAAGGA
ZEO-F	CTTCAAAACACCCAAGCACAGCA
ZEO-R	GTGGACACGACCTCCGACCACTC
B-ER-F	AAGGATCTTGGCAGCCGTGC
B-ER-R	GAGGCGGCGCAAGAAGCA
C-ER-F	CTCGGTGATGAAGGCTTCATG
C-ER-R	GGACGGGAACATGGTTCCC

Table S2. OrfB sequence of PKS gene cluster in *Schizochytrium limacinum* SR21

GATCGATCTAAAAGTGCCGGTCAGGTGACACGCAAGCTCTTTTTTTGTTTACAGTAA
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Table S3. OrfC sequence of PKS gene cluster in *Schizochytrium limacinum* SR21

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 TCCTCAAGAAGGGAACCATGTTCCCGTCCAGGGCTAA

Table S4. Primers used in RT-qPCR for detect expression of the genes

Primers	Sequence(5' -3')
FAS-F	TGAGGCGTTTGCCAACTACA
FAS-R	GCTCCTTGACAATGACCATG
OrfB-ER-F	GTTGAAGCCTCCGCCTTTATG
OrfB-ER-R	CCTGCTCTTGGGTGATCTCGC
OrfC-ER-F	CAGCCTGCTCCTTGGTAATCT
OrfC-ER-R	CATCAAGAACCGCATCATCG
DH-F	AGCCTCGTCGTAGCCCATCT
DH-R	TGCAGCCAGCTCCTCAAGAT