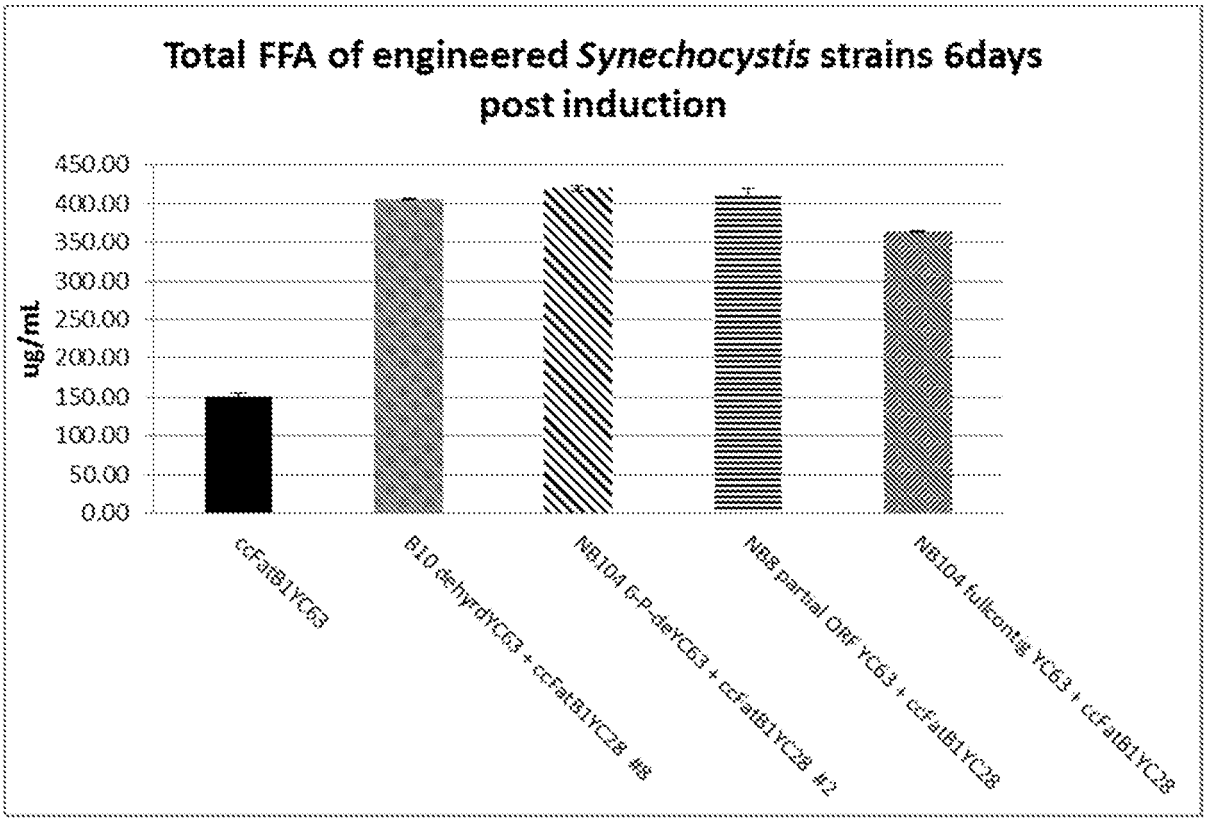

Total FFA of engineered Synechocystis strains 6days post induction
ug/mL
450.00
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
ccFatB1YC63
B10 dehydYC63 + ccFatB1YC28 #8
NB104 G-P-deYC63 + ccFatB1YC28 #2
NB8 partial ORF YC63 + ccFatB1YC28
NB104 fullcontig YC63 + ccFatB1YC28

Figure 1

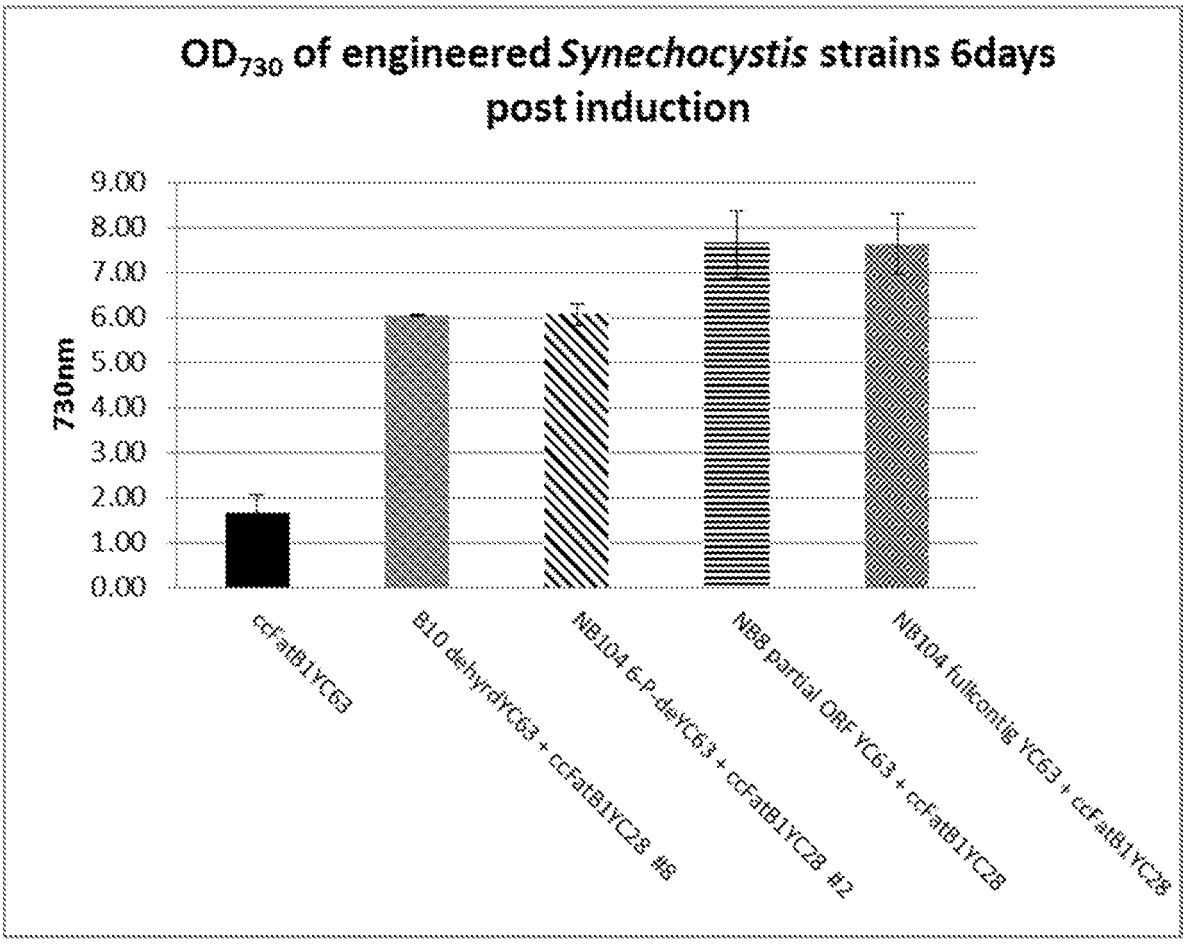

OD730 of engineered Synechocystis strains 6days post induction
730nm
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
ccFatB1YC63
B10 dehyraYC63 + ccFatB1YC28 #8
NB104 6-P-deYC63 + ccFatB1YC28 #2
NB8 partial OBF YC63 + ccFatB1YC28
NB104 fullcontig YC63 + ccFatB1YC28

Figure 2

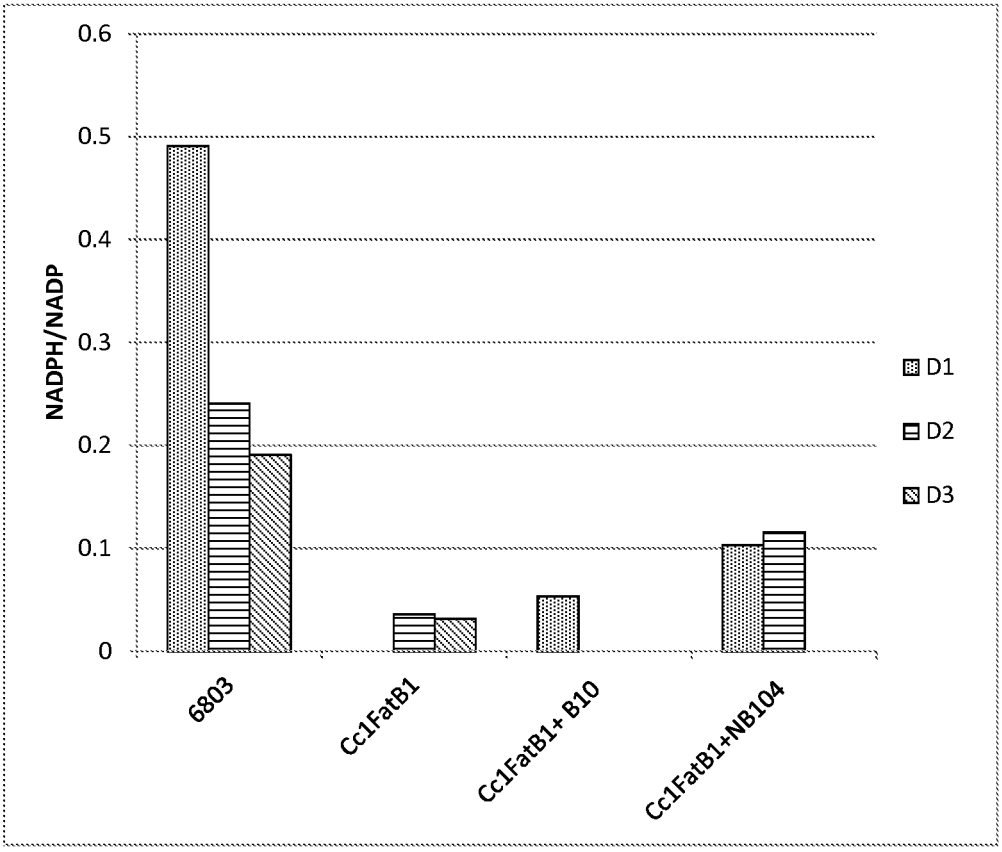

0.6
0.5
0.4
0.3
0.2
0.1
0
NADPH/NADP
D1
D2
D3
6803
Cc1FatB1
Cc1FatB1+ B10
Cc1FatB1+NB104

Figure 3

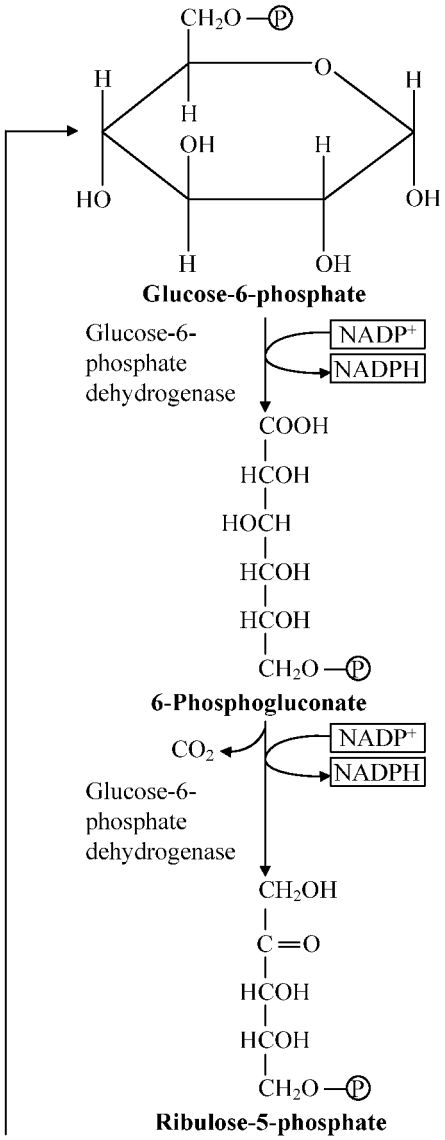

CH2O—Ⓟ
O
H
H
H
OH
H
HO
OH
H
OH
Glucose-6-phosphate
Glucose-6-phosphate dehydrogenase
NADP+
NADPH
COOH
HCOH
HOCH
HCOH
HCOH
CH2O—Ⓟ
6-Phosphogluconate
CO2
NADP+
NADPH
Glucose-6-phosphate dehydrogenase
CH2OH
C=O
HCOH
HCOH
CH2O—Ⓟ
Ribulose-5-phosphate

Figure 4

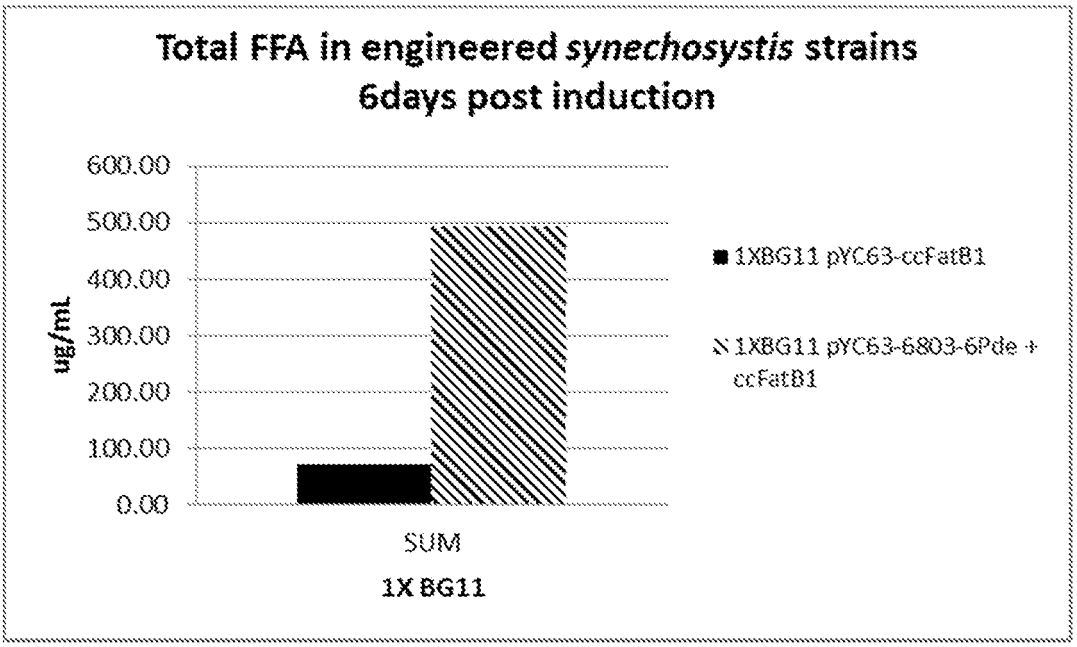

Total FFA in engineered synechosystis strains
6days post induction
600.00
500.00
400.00
300.00
200.00
100.00
0.00
ug/mL
SUM
1X BG11
1XBG11 pYC63-ccFatB1
1XBG11 pYC63-6803-6Pde + ccFatB1

Figure 5