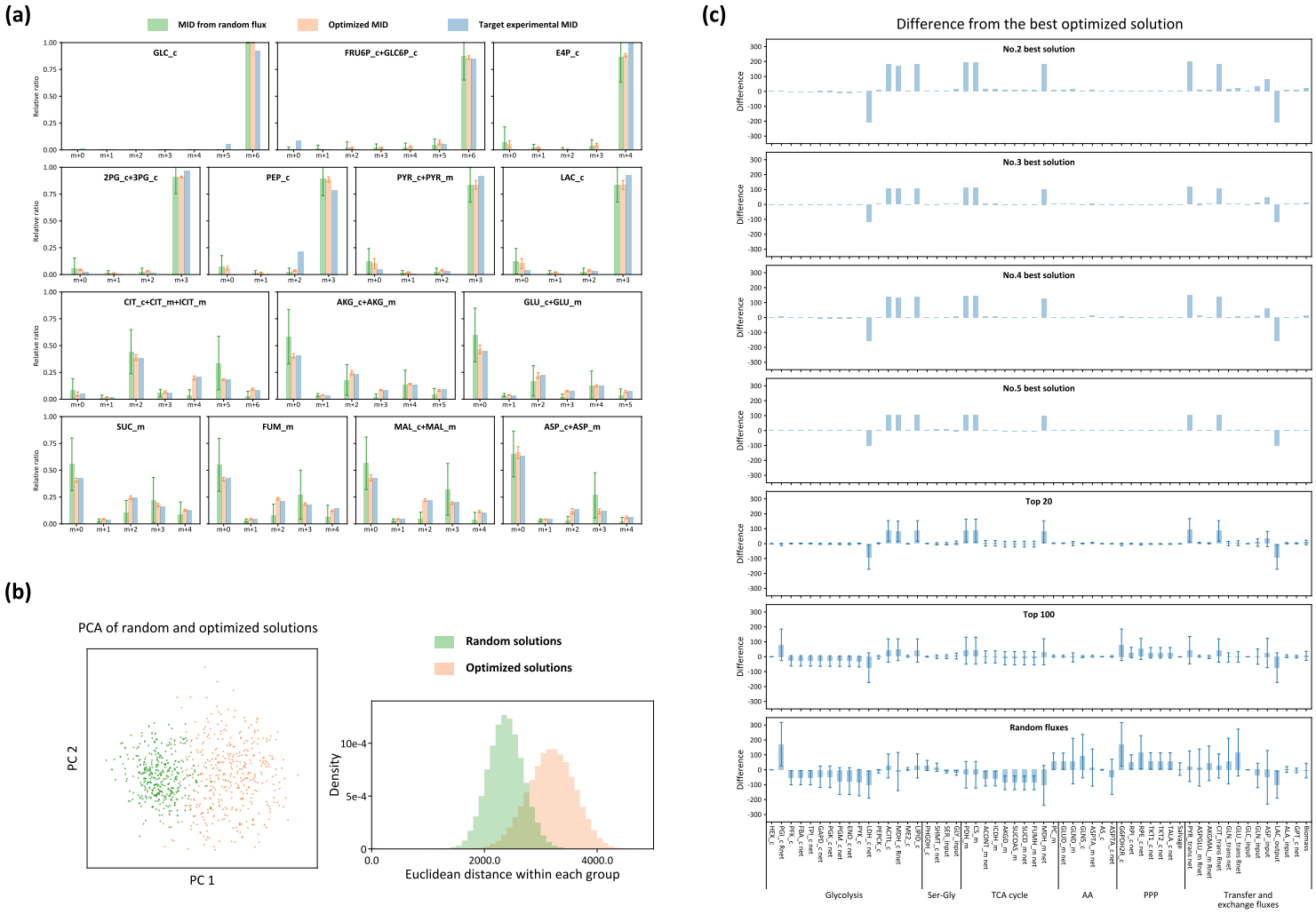
Figure S1


(a)
MID from random flux
Optimized MID
Target experimental MID
GLC_c
FRU6P_c+GLC6P_c
E4P_c
2PG_c+3PG_c
PEP_c
PYR_c+PYR_m
LAC_c
CIT_c+CIT_m+ICIT_m
AKG_c+AKG_m
GLU_c+GLU_m
SUC_m
FUM_m
MAL_c+MAL_m
ASP_c+ASP_m
Relative ratio
(b)
PCA of random and optimized solutions
Random solutions
Optimized solutions
PC 1
PC 2
Density
Euclidean distance within each group
(c)
Difference from the best optimized solution
No.2 best solution
No.3 best solution
No.4 best solution
No.5 best solution
Top 20
Top 100
Random fluxes
Difference
Glycolysis
Ser-Gly
TCA cycle
AA
PPP
Transfer and exchange fluxes