Supporting Information Legends

SuppInfo_Biomass_Composition.xlsx

Detailed calculations of the biomass composition used in iVS1191.

SuppInfo_Dissipation_reactions.pdf

Set of dissipation reactions used to identify the thermodynamically infeasible energy-generating cycles (EGCs).

SuppInfo_Gene_reannotation.xlsx

List of manual gene re-annotation of all the included metabolic genes in iVS1191.

SuppInfo_Figure_1.txt

MATLAB script used to reproduce Figure 1 in the main text of the article.

SuppInfo_Figure_1.xlsx

Corresponding data used to reproduce Figure 1.

SuppInfo_iCS1079.xml

Model file of iCS1079 in xml format.

SuppInfo_iCY1170_DHA.xml

Model file of iCY1170_DHA in xml format.

SuppInfo_iVS1191.xml

Model file of iVS1191 in xml format.

SuppInfo_draftModel.xml

Model file of the T66 draft model in xml format.

SuppInfo_keggModel.xml

Model file of the T66 KEGG model in xml format.

SuppInfo_Table_2.txt

MATLAB script used to reproduce Table 2 in the main text of the article.

SuppInfo_Table_3.txt

MATLAB script used to reproduce Table 3 in the main text of the article.

SuppInfo_Table_4.txt

MATLAB script used to reproduce Table 4 in the main text of the article.