

## Supplementary

**Table S1** The list of gene symbol in the KEGG\_PYRUVATE\_METABOLISM gene set

### Symbol

*ME3, ACOT12, LDHAL6A, DLAT, DLD, LDHD, ALDH2, ALDH1B1, ALDH9A1, ALDH3A2, AKR1B1, GLO1, HAGH, ACACA, ACACB, ACAT1, ACAT2, LDHA, LDHB, LDHC, MDH1, MDH2, ME1, ME2, ALDH7A1, PC, PCK1, PCK2, PDHA1, PDHA2, PDHB, PKLR, PKM, ACSS2, HAGHL, ACSS1, LDHAL6B, GRHPR, ACYP1, ACYP2*