



Figure S5. Concordance of replication shown as the ranges between biological replicate measurements of mRNA abundances (RPKM) values for 4492 genes at each steady-state condition for which species resolved gene expression was analyzed; binary cultivation of *T. elongatus* and *M. ruber*. Specific turbidostat steady-state conditions are designated with the following abbreviations: high-light ($1995 \mu\text{mol photons m}^{-2} \text{s}^{-1}$; HL), medium-light ($1190 \mu\text{mol photons m}^{-2} \text{s}^{-1}$; ML), low-light ($197 \mu\text{mol photons m}^{-2} \text{s}^{-1}$; LL), high- O_2 ($\text{pO}_2=0.6 \text{ ATM}$; HO), medium- O_2 ($\text{pO}_2=0.3 \text{ ATM}$; MO) and low- O_2 ($\text{pO}_2=0.0 \text{ ATM}$; MO). Replication of transcriptomic analyses was performed in duplicate with the exception of condition HL-LO which was performed in quadruplicate.