Endogenous and Exogenous Codon Usage -1.0 -0.5 0.0 0.5 1.0 -1.0 -0.5 0.0 0.5 -1.0 -0.5 0.0 0.5 1.0 -1.0 -0.5 0.0 GCA GCC GCG GCT GAC GAT Е 1.0 8.0 0.8 0.6 0.6 0.4 0.4 0.2 0.2 0.0 0.0 GGA GGC GGG GGT CAC CAT ATA ATC ATT TTC TTT G F Н 1.0 1.0 8.0 0.8 0.6 0.6 0.4 0.4 0.2 0.2 0.0 0.0 AAC AAT K Ν Ρ 1.0 1.0 CTC CTG CTT TTA CCC CCG CCT 8.0 0.8 Proportion 0.6 0.6 0.4 0.4 0.2 0.2 0.0 0.0 TCA TCC TCG TCT CAA CAG AGA AGG CGA Q R S ACA 1.0 1.0 ACC ACG CGC CGG 8.0 0.8 0.6 0.6 0.4 0.4 0.2 0.2 0.0 0.0 0.35 TAC TAT AGC AGT GTA Ζ Υ 1.0 Model fit GTC GTG 0.30 Endogenous Exogenous Combined 8.0 0.25 0.6 0.20 0.15 0.4 0.10 0.2 0.05 0.0 0.00 -1.0 -0.5 0.0 0.5 1.0 -1.0 -0.5 0.0 -1.0 -0.5 0.5 1.0 -1.0 -0.50.0 0.5 1.0 log₁₀ (Protein Synthesis Rate φ)