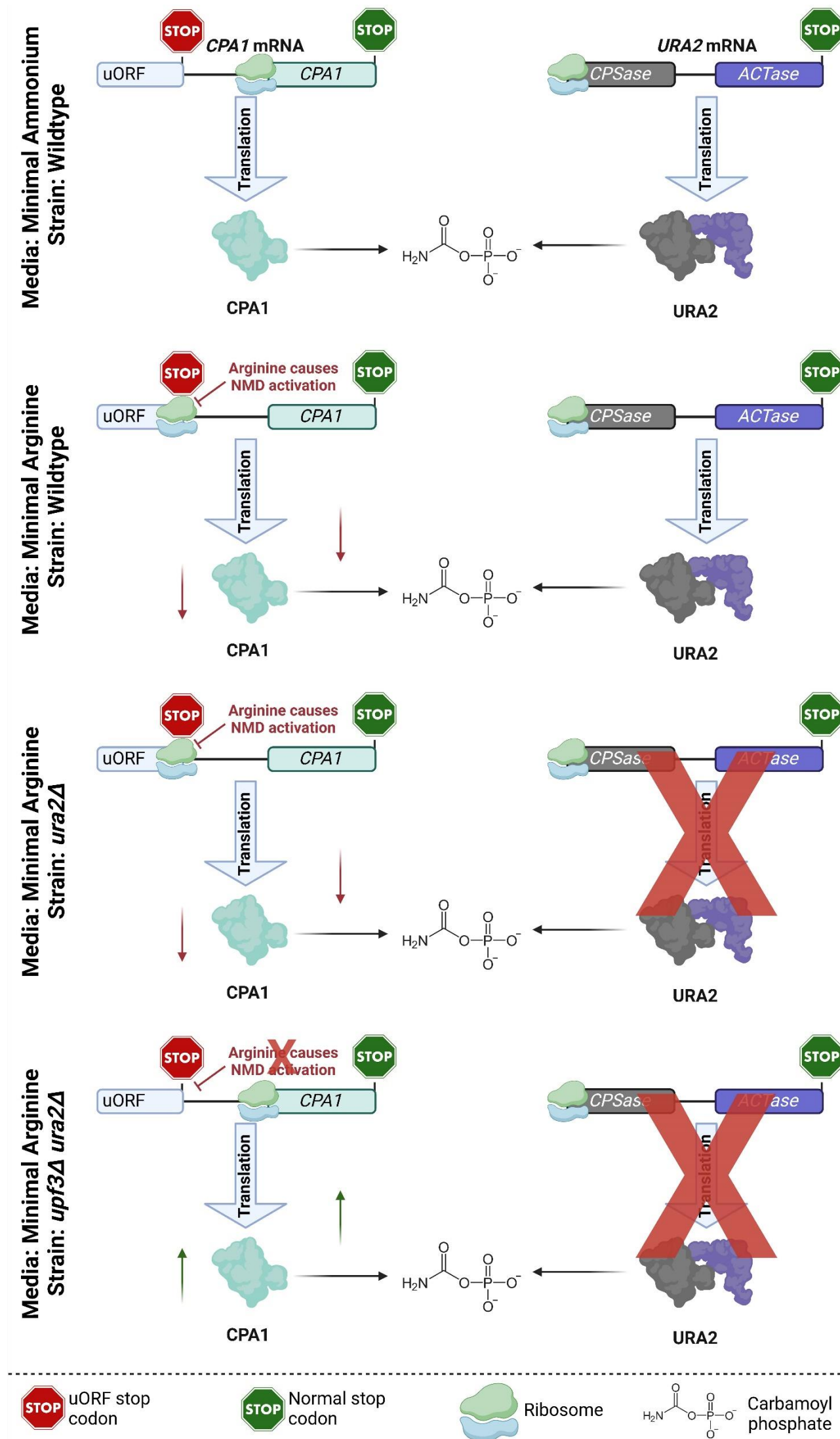


Figure S1



CPA1 repression system

First row: Carbamoyl phosphate can be synthesized by the product of the *CPA1* or the *URA2* gene.

Second row: High arginine levels induce NMD of *CPA1* mRNA, but cells can still synthesize carbamoyl phosphate by the *URA2* gene product.

Third row: In a *ura2Δ* mutant, arginine-induced NMD of *CPA1* causes carbamoyl depletion.

Fourth row: In a *ura2Δ upf3Δ* mutant, NMD is inactivated and cells can still synthesize carbamoyl phosphate in the presence of arginine.