

Table S5: Deletion and site directed mutants assessed in this study

Gene deletion strains		
Biological process	Mutant strain	Revival Phenotype (assayed by monitoring change in OD₆₀₀)*
Sporulation	<i>ΔsspA</i>	outgrowth delay in minimal media
	<i>ΔsspB</i>	outgrowth delay in minimal media
	<i>ΔsspA, ΔsspB</i>	outgrowth delay in minimal media
	<i>ΔfloT</i>	
	<i>ΔfloA</i>	
	<i>ΔfloT, ΔfloA</i>	
	<i>ΔswrC</i>	
Carbon Metabolism	<i>ΔHPr</i>	outgrowth delay
	<i>Δcrh</i>	no effect
	<i>ΔhprK</i>	outgrowth delay
	<i>ΔfruA</i>	no effect
Transcription	<i>ΔrpoE</i>	no effect
	<i>ΔphoRD</i>	no effect
Stress response	<i>ΔrsbRB</i>	no effect
	<i>ΔrsbRC</i>	no effect
	<i>ΔrsbRD</i>	no effect
	<i>ΔRsbRB, ΔRsbRC, ΔRsbRD</i>	no effect
	<i>ΔsigB</i>	outgrowth delay under stress conditions
	<i>ΔbmrU</i>	no effect
Ser/Thr Kinases	<i>ΔprkC</i>	no effect
	<i>ΔyabT</i>	no effect
	<i>ΔyabT, ΔprkC</i>	no effect
Point mutant strains		
Sporulation	<i>sspA-S47A</i>	no effect
	<i>sspA-S47D</i>	no effect
	<i>sspA-S47A, ΔsspB</i>	no effect
	<i>sspA-S47D, ΔsspB</i>	outgrowth delay in rich and poor media
	<i>sspA-S6A,S9A,S58A</i>	no effect
	<i>sspA-S6D,S9D,S58D</i>	no effect

	<i>sspA-S6A,S9A,S58A, ΔsspB</i>	no effect
	<i>sspA-S6D,S9D,S58D, ΔsspB</i>	no effect
	<i>sspB-S45A</i>	no effect
	<i>sspB-S45D</i>	no effect
	<i>sspA-S47A, sspB-S45A</i>	no effect
	<i>sspA-S47D, sspB-S45D</i>	outgrowth delay in rich and poor media
	<i>sspB-S45A, ΔsspA</i>	no effect
	<i>sspB-S45D, ΔsspA</i>	outgrowth delay in rich and poor media
	<i>sspB S6A,S7A,</i>	no effect
	<i>sspB S6D,S7D</i>	no effect
	<i>sspB S6A,S7A, ΔsspA</i>	no effect
	<i>sspB S6D,S7D, ΔsspA</i>	no effect
	<i>floT-S112A</i>	no effect
	<i>floT-S112D</i>	no effect
	<i>floT-S112A, ΔfloA</i>	no effect
	<i>floT-S112D, ΔfloA</i>	no effect
Translation	<i>rpsJ-S32A</i>	no effect
	<i>rpsJ-S32D</i>	outgrowth delay
	<i>EF-G -Y339A</i>	no effect
	<i>EF-G -Y339D</i>	no effect
	<i>EF-TU-Y270A</i>	no effect
	<i>EF-TU-Y270D</i>	no effect
Carbon metabolism	<i>HPr-S46A</i>	outgrowth delay
	<i>HPr-S46D</i>	outgrowth delay
	<i>HPr-S46A, Δcrh</i>	outgrowth delay
	<i>HPr-S46D, Δcrh</i>	outgrowth delay
	<i>HPr-S12A</i>	no effect
	<i>HPr-S12D</i>	no effect
	<i>HPr-S12A, Δcrh</i>	no effect
	<i>HPr-S12D, Δcrh</i>	no effect
Stress response	<i>bmrU Y162A</i>	no effect

	<i>bmrU Y162D</i>	no effect
	<i>rsbV S56D</i>	outgrowth delay under stress conditions
Ser/Thr Kinases	<i>ΔprkC S214A,S217A</i>	no effect
	<i>ΔprkCS214D,S217D</i>	no effect

*For each mutant revival was induced by L-Ala and AGFK separately.