

Table S4 : *Bacillus subtilis* PTA-271 encoding genes for sporulation

Locus tag ID	Gene	Function
<i>Sporulation related genes</i>		
S19-40_00078	<i>yjcA</i>	Sporulation protein YjcA
S19-40_00117	<i>ynzD</i>	Spo0E like sporulation regulatory protein
S19-40_00119	<i>sirA</i>	Sporulation inhibitor of replication protein SirA
S19-40_00176	<i>spoVK</i>	Stage V sporulation protein K
S19-40_00177	<i>cwlC</i>	Sporulation-specific N-acetylmuramoyl-L-alanine amidase
S19-40_00222	<i>spoVS</i>	Stage V sporulation protein S
S19-40_00246	<i>ylmC</i>	Sporulation protein, YlmC/YmxH family
S19-40_00387	<i>spoHGA</i>	Sporulation sigma-E factor-processing peptidase
S19-40_00401	<i>spoVD</i>	Stage V sporulation protein D
S19-40_00416	<i>ylbJ</i>	Sporulation integral membrane protein YlbJ
S19-40_00471	<i>kinA</i>	Sporulation kinase A
S19-40_00495	-	Sporulation protein cse15
S19-40_00522	<i>kinA</i>	Sporulation kinase A
S19-40_00539	<i>stoA</i>	Sporulation thiol-disulfide oxidoreductase A
S19-40_00540	<i>ykvU</i>	Sporulation protein YkvU
S19-40_00541	<i>sleB</i>	Spore cortex-lytic enzyme
S19-40_00545	<i>ydhD</i>	Putative sporulation-specific glycosylase YdhD
S19-40_00546	<i>ykvP</i>	Spore protein YkvP
S19-40_00547	<i>ykvP</i>	Spore protein YkvP
S19-40_00559	<i>kinD</i>	Sporulation kinase D
S19-40_00561	<i>spo0E</i>	stage 0 sporulation regulatory protein
S19-40_00573	<i>kinE</i>	Sporulation kinase E
S19-40_00649	<i>spoIISA</i>	Stage II sporulation protein SA
S19-40_00650	<i>spoIISB</i>	Stage II sporulation protein SB
S19-40_00708	<i>spo0F</i>	Sporulation initiation phosphotransferase F
S19-40_00746	<i>spoIID</i>	stage II sporulation protein D
S19-40_00766	<i>spoIIQ</i>	Stage II sporulation protein Q
S19-40_00780	<i>spoIIID</i>	Stage III sporulation protein D
S19-40_00844	<i>gerBB</i>	Spore germination protein B2
S19-40_00845	<i>gerBA</i>	Spore germination protein B1
S19-40_00958	<i>whiA</i>	Sporulation transcription regulator WhiA
S19-40_00982	<i>cotR</i>	Putative sporulation hydrolase CotR
S19-40_01032	<i>ydhD</i>	Putative sporulation-specific glycosylase YdhD
S19-40_01057	<i>sdpC</i>	Sporulation delaying protein C
S19-40_01058	<i>sdpB</i>	Sporulation-delaying protein SdpB
S19-40_01059	<i>sdpA</i>	Sporulation-delaying protein SdpA
S19-40_01133	<i>gerAC</i>	Spore germination protein A3
S19-40_01134	<i>gerAB</i>	Spore germination protein A2
S19-40_01135	<i>gerAA</i>	Spore germination protein A1
S19-40_01208	<i>yunB</i>	Sporulation protein YunB
S19-40_01211	<i>YhcN</i>	Sporulation lipoprotein, YhcN/YlaJ family
S19-40_01229	<i>paiB</i>	Protease synthase and sporulation protein PAI 2
S19-40_01261	<i>YtvI</i>	Sporulation integral membrane protein YtvI
S19-40_01297	<i>kinE</i>	Sporulation kinase E
S19-40_01298	<i>kinE</i>	Sporulation kinase E
S19-40_01483	<i>spoVB</i>	Stage V sporulation protein B

S19-40_01500	<i>coxA</i>	Sporulation cortex protein CoxA
S19-40_01501	<i>safA</i>	SpoIVD-associated factor A
S19-40_01510	<i>spo0B</i>	Sporulation initiation phosphotransferase B
S19-40_01514	<i>spoIVFB</i>	Stage IV sporulation protein FB
S19-40_01515	<i>spoIVFA</i>	Stage IV sporulation protein FA
S19-40_01523	<i>spoIIB</i>	Stage II sporulation protein B
S19-40_01529	<i>spoVID</i>	Stage VI sporulation protein D
S19-40_01557	<i>gerM</i>	Spore germination protein GerM
S19-40_01560	<i>gerE</i>	Spore germination protein GerE
S19-40_01642	<i>ytrH</i>	Sporulation membrane protein YtrH
S19-40_01643	<i>ytrI</i>	Sporulation membrane protein YtrI
S19-40_01727	-	Sporulation protein cse60
S19-40_01859	<i>ydhD</i>	Putative sporulation-specific glycosylase YdhD
S19-40_01951	<i>ydcC</i>	Sporulation protein YdcC
S19-40_02076	<i>nucB</i>	Sporulation-specific extracellular nuclease
S19-40_02162	<i>cwlJ</i>	Spore cortex-lytic enzyme
S19-40_02177	<i>spo0A</i>	Stage 0 sporulation protein A
S19-40_02216	-	Sigma-G-dependent sporulation-specific SASP protein
S19-40_02229	<i>skfC</i>	Sporulation-killing factor biosynthesis protein SkfC
S19-40_02230	<i>skfB</i>	Sporulation killing factor maturation protein SkfB
S19-40_02231	<i>skfA</i>	Sporulation killing factor
S19-40_02296	<i>cwlA</i>	Spore cortex-lytic enzyme
S19-40_02371	<i>yjcA</i>	Sporulation protein YjcA
S19-40_02372	<i>cotV</i>	Spore coat protein V
S19-40_02373	<i>cotW</i>	Spore coat protein W
S19-40_02374	<i>cotX</i>	Spore coat protein X
S19-40_02375	<i>cotY</i>	Spore coat protein Y
S19-40_02376	<i>cotZ</i>	Spore coat protein Z
S19-40_02450	<i>sdpA</i>	Sporulation-delaying protein SdpA
S19-40_02451	<i>sdpB</i>	Sporulation-delaying protein SdpB
S19-40_02452	<i>sdpC</i>	Sporulation delaying protein C
S19-40_02483	<i>yisI</i>	Spo0E like sporulation regulatory protein
S19-40_02484	<i>gerPA</i>	Spore germination protein gerPA/gerPF
S19-40_02485	<i>gerPB</i>	Spore germination GerPB
S19-40_02486	<i>gerPC</i>	Spore germination protein GerPC
S19-40_02487	<i>gerPD</i>	Spore germination protein GerPD
S19-40_02488	<i>gerPE</i>	Spore germination protein GerPE
S19-40_02489	<i>gerPF</i>	Spore germination protein gerPA/gerPF
S19-40_02559	<i>yhaL</i>	Sporulation protein YhaL
S19-40_02674	<i>spo0M</i>	Sporulation-control protein spo0M
S19-40_02725	<i>YpjB</i>	Sporulation protein YpjB
S19-40_02753	<i>spoIVA</i>	Stage IV sporulation protein A
S19-40_02767	<i>ypeB</i>	Sporulation protein YpeB
S19-40_02768	<i>sleB</i>	Spore cortex-lytic enzyme
S19-40_02812	<i>spoVAF</i>	stage V sporulation protein AF
S19-40_02813	-	stage V sporulation protein AE
S19-40_02814	-	stage V sporulation protein AE
S19-40_02815	<i>spoVAD</i>	stage V sporulation protein AD
S19-40_02816	<i>spoVAC</i>	stage V sporulation protein AC
S19-40_02817	<i>spoVAB</i>	stage V sporulation protein AB

S19-40_02818	<i>spoVAA</i>	stage V sporulation protein AA
S19-40_02820	<i>spoIIAB</i>	stage II sporulation protein AB (anti-sigma F factor)
S19-40_02821	<i>spoIIAA</i>	stage II sporulation protein AA (anti-sigma F factor antagonist)
S19-40_02828	<i>spoIIM</i>	Stage II sporulation protein M
S19-40_02901	<i>spo0A</i>	Stage 0 sporulation protein A
S19-40_02902	<i>spoIVB</i>	SpoIVB peptidase
S19-40_02915	<i>spoIIIAH</i>	Stage III sporulation protein AH
S19-40_02918	<i>spoIIIAE</i>	Stage III sporulation protein AE
S19-40_03018	<i>yqfD</i>	Sporulation protein YqfD
S19-40_03019	<i>yqfC</i>	Sporulation protein YqfC
S19-40_03055	<i>cwlH</i>	Spore cortex-lytic enzyme
S19-40_03059	<i>nucB</i>	Sporulation-specific extracellular nuclease
S19-40_03771	<i>soj</i>	Sporulation initiation inhibitor protein Soj
S19-40_03960	<i>spoIIE</i>	Stage II sporulation protein E
S19-40_03969	<i>gerD</i>	Stage V sporulation protein B
S19-40_03970	<i>spoVT</i>	Stage V sporulation protein T
S19-40_03977	<i>spoVG</i>	Putative septation protein SpoVG
S19-40_03982	<i>yabG</i>	Sporulation-specific protease YabG
S19-40_04013	<i>yaaH</i>	Spore germination protein YaaH
