|  |  |  |  |
| --- | --- | --- | --- |
| **Species** | **Strain** | **Genotype** | **Source** |
| *B. subtilis* | PY79 | Wildtype | 1 |
| *B. subtilis* | GG7 | *amyE::Phyperspank-gpsBSA spcR* | 2 |
| *B. subtilis* | GG8 | *amyE::Phyperspank-gpsBSA-gfp spcR* | 2 |
| *B. subtilis* | GG18 | *amyE::Phyperspank-gpsBBS spcR* | 2 |
| *B. subtilis* | GG19 | *amyE::Phyperspank-gpsBBS-gfp spcR* | 2 |
| *B. subtilis* | LH115 | *amyE::Phyperspank-gpsBSA ΔMNN spcR* | This study |
| *B. subtilis* | LH116 | *amyE::Phyperspank-gpsBSA ΔMNN-gfp spcR* | This study |
| *B. subtilis* | LH119 | *amyE::Phyperspank-gpsBSA ΔMAD spcR* | This study |
| *B. subtilis* | LH126 | *amyE::Phyperspank-gpsBSA ΔMAD-gfp spcR* | This study |
| *B. subtilis* | DB44 | *bkdB::Tn917::amyE::Phyperspank-gpsBSA-gfp ermR; amyE::Phyperspank-gpsBSA spcR* | This study (made from LH73; Hammond et al 2022 3 and GG7; 4) |
| *B. subtilis* | DB45 | *bkdB::Tn917::amyE::Phyperspank-gpsBSA-gfp ermR; amyE::Phyperspank-gpsBSA ΔMNN spcR* | This study (made from LH73; Hammond et al 20223 and pLH56) |
| *B. subtilis* | DB46 | *bkdB::Tn917::amyE::Phyperspank-gpsBSA-gfp ermR; amyE::Phyperspank-gpsBSA ΔMAD spcR* | This study (made from LH73; Hammond et al 20223 and pLH58) |
| *B. subtilis* | LH78 | *bkdB::Tn917::amyE::Phyperspank-gpsBSA-gfp ermR; amyE::Phyperspank-gpsBSA ΔLEE spcR* | 3 |
| *S. aureus* | PES5 | SH1000 with pCL15 Empty Vector | 2 |
| *S. aureus* | PE355 | RN4220 with pCL15 Empty Vector | 2 |
| *S. aureus* | PES6 | SH1000 pCL15 backbone *Pspac-gpsBSA-gfp* | 2 |
| *S. aureus* | GGS2 | RN4220 pCL15 backbone *Pspac-gpsBSA-gfp* | 2 |
| *S. aureus* | PES13 | SH1000 pCL15 backbone *Pspac-gpsBSA* | 2 |
| *S. aureus* | GGS1 | RN4220 pCL15 backbone *Pspac-gpsBSA* | 2 |
| *S. aureus* | LH132 | SH1000 pCL15 backbone *Pspac -gpsBSA ΔMNN-gfp* | This study |
| *S. aureus* | LH128 | RN4220 pCL15 backbone *Pspac-gpsBSA ΔMNN -gfp* | This study |
| *S. aureus* | LH134 | SH1000 pCL15 backbpone *Pspac-gpsBSA ΔMNN* | This study |
| *S. aureus* | LH127 | RN4220 pCL15 backbone *Pspac-gpsBSA ΔMNN* | This study |
| *S. aureus* | LH133 | SH1000 pCL15 backbone *Pspac-gpsBSA ΔMAD-gfp* | This study |
| *S. aureus* | LH130 | RN4220 pCL15 backbone *Pspac-gpsBSA ΔMAD-gfp* | This study |
| *S. aureus* | LH135 | SH1000 pCL15 backbpone *Pspac-gpsBSA ΔMAD* | This study |
| *S. aureus* | LH129 | RN4220 pCL15 backbone *Pspac-gpsBSA ΔMAD* | This study |
| *S. aureus* | LM74 | RN4220 Δ*gpsB* pCL15 Empty Vector | This study |
| *S. aureus* | LM75 | RN4220 Δ*gpsB* pCL15 backbone *Pspac-gpsBSA* | This study |
| *S. aureus* | LM76 | RN4220 Δ*gpsB* pCL15 backbone *Pspac-gpsBSA ΔMAD* | This study |
| *S. aureus* | LM77 | RN4220 Δ*gpsB* pCL15 backbone *Pspac-gpsBSA ΔMNN* | This study |
| *E. coli* | BTH101 | *Adenylate cyclase deficient reporter strain for BACTH; F′, cya-99, araD139, galE15, galK16, rpsL1 (StrR), hsdR2, mcrA1, mcrB1, relA1* | 5 |
| *E. coli* | LH40 | pEB355 backbone *gpsBSA* | 3 |
| *E. coli* | LH39 | pEB354 backbone *gpsBSA* | 3 |
| *E. coli* | LH164 | pEB355 backbone *gpsBSA ∆MAD* | This study |
| *E. coli* | MA1 | pEB354 backbone *gpsBSA ∆MAD* | This study |
| *E. coli* | LH170 | pEB355 backbone *gpsBSA ∆MNN* | This study |
| *E. coli* | LH168 | pEB354 backbone *gpsBSA ∆MNN* | This study |
| *E. coli* | PE87 | pUT25-zip | 5 |
| *E. coli* | PE88 | pUT18-zip | 5 |
| *E. coli* | PE84 | pEB355 | 5 |
| *E. coli* | PE83 | pEB354 | 5 |
| *E. coli* | pLH62 | pCL15 backbone *Pspac-gpsBSA ΔMAD* | This study |
| *E. coli* | pLH59 | pCL15 backbone *Pspac-gpsBSA ΔMNN* | This study |
| *E. coli* | pLH63 | pCL15 backbpone *Pspac-gpsBSA ΔMAD-gfp* | This study |
| *E. coli* | pLH60 | pCL15 backbone *Pspac-gpsBSA ΔMNN-gfp* | This study |
| *E. coli* | PE630 | BL21(λDE3)::ΔclpP strain containing pET28a *PIPTG-his-ftsZSA* | 2 |
| *E. coli* | EDB01 | BL21-DE3 strain containing pET28a *PIPTG-his-ftsZSAΔC6* | This study |
| *E. coli* | PE401 | BL21-DE3 strain containing pET28a *PIPTG-gpsBSA-his* | 2 |
| *E. coli* | SK7 | BL21-DE3 strain containing pET28a *PIPTG-his-ftsZSA-CTT* (C-term 66 aa) | This study |
| *E. coli* | pLH56 | pDR111 backbone *Pspac-gpsBSA ΔMNN* | This study |
| *E. coli* | pLH58 | pDR111 backbone *Pspac-gpsBSA ΔMAD* | This study |
| *E. coli* | pLM30 | pCASSA derivative for *gpsB* deletion | This study; 6 ( |

Supplementary File 3  **–** The genotypes of strains used in the cell-based studies.

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