**Table S3: *B. subtilis* strains.**

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| --- | --- | --- | --- |
| **Strain** | **Genotype** | **Constructiona** | **Source** |
| 168 | *trpC2 gudBCR* | - | laboratory collection |
| BP9 | *trpC2 amyE::(gltA-lacZ aphA3) rocG::cat gudBCR-gfp spc* | pBP1🡪GP754 | This study |
| BP10 | *trpC2 amyE::(gltA-lacZ aphA3) rocG::cat gudB-gfp spc* | pBP1🡪GP801 | This study |
| BP22 | *trpC2 gudBCR::aphA3 rocG*::Tn*10 spc amyE::(gfp-gudBCR cat)* | pBP8🡪GP1161 | This study |
| BP23 | *trpC2 gudBCR::aphA3 rocG*::Tn*10 spc amyE::(gfp-gudB cat)* | pBP9🡪GP1161 | This study |
| BP31 | *trpC2 gudBCR rocG::Tn10 spc amyE::(gudBCRSacI gfp cat)* | pBP11🡪GP747 | This study |
| BP40 | *trpC2 gudBCR amyE::(yfp cat)* | pBP26🡪168 | This study |
| BP41 | *trpC2 gudBCR amyE::(cfp cat)* | pBP27🡪168 | This study |
| BP42 | *trpC2 gudB amyE::(gltA-lacZ aphA3) rocG::cat* | The same as GP801 | This study |
| BP44 | *trpC2 gudB (T896G) amyE::(gltA-lacZ aphA3) rocG::cat* | Derived from GP801 | This study |
| BP48 | *trpC2 gudB (766) amyE::(gltA-lacZ aphA3) rocG::cat* | Derived from GP801 | This study |
| BP46 | *trpC2 gudB (673-738) amyE::(gltA-lacZ aphA3) rocG::cat* | Derived from GP801 | This study |
| BP47 | *trpC2 gudB (C1222ins T1223ins) amyE::(gltA-lacZ aphA3) rocG::cat* | Derived from GP801 | This study |
| BP52 | *trpC2 gudB amyE::(cfp cat)* | BP41🡪GP804 | This study |
| BP156 | *trpC2 gudB amyE::(yfp cat)* | pBP26🡪GP804 | This study |
| GP342 | *trpC2 gudBCR amyE::(gltA-lacZ aphA3)* | - | [18] |
| GP747 | *trpC2 gudBCR rocG*::Tn*10 spc* | - | [20] |
| GP754 | *trpC2 gudBCR amyE::(gltA-lacZ aphA3) rocG::cat* | - | [22] |
| GP801 | *trpC2 gudB amyE::(gltA-lacZ aphA3) rocG::cat* | - | [12] |
| GP804 | *trpC2 gudB amyE::(gltA-lacZ aphA3)* | - | [12] |
| GP1161 | *trpC2 gudBCR::aphA3 rocG*::Tn*10 spc* | - | [27] |
| GP1163 | *trpC2 gudBCR::aphA3 rocG*::Tn*10 spc amyE::(gudBCR cat)* | - | [27] |
| GP1165 | *trpC2 gudBCR::aphA3 rocG*::Tn*10 spc amyE::(gudB cat)* | - | This study |

**a)** Arrows indicate construction by transformation.