**Supporting Information**

**for**

**Identification of new glutamate decarboxylases from *Streptomyces* for efficient production of γ-aminobutyric acid in engineered *Escherichia coli***

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**Figure S1**. Partial amino acid sequence alignment of StGAD, SsGAD and ScGAD with previously known GADs. The known GADs include GadB (GenBank accession number ACT43333.1) and GadA (GenBank accession number ACT45166.1) from *E. coli* BL21(DE3), a GAD (GenBank accession number ADG02973.1) from *Lactobacillus brevis* CGMCC 1306, a GAD (GenBank accession number AHG59384.1) from *Lactobacillus plantarum* Taj-Apis362, a GAD (GenBank accession number CAL97772.1) from *Lactoccus lactis* subsp. *cremoris* MG1363, a GAD (GenBank accession number KSZ472875.1) from *Listeria monocytogenes*, and a GAD (GenBank accession number KFL74542.1) from *Bacillus cereus* ATCC 10876.