Supplemental Figures:

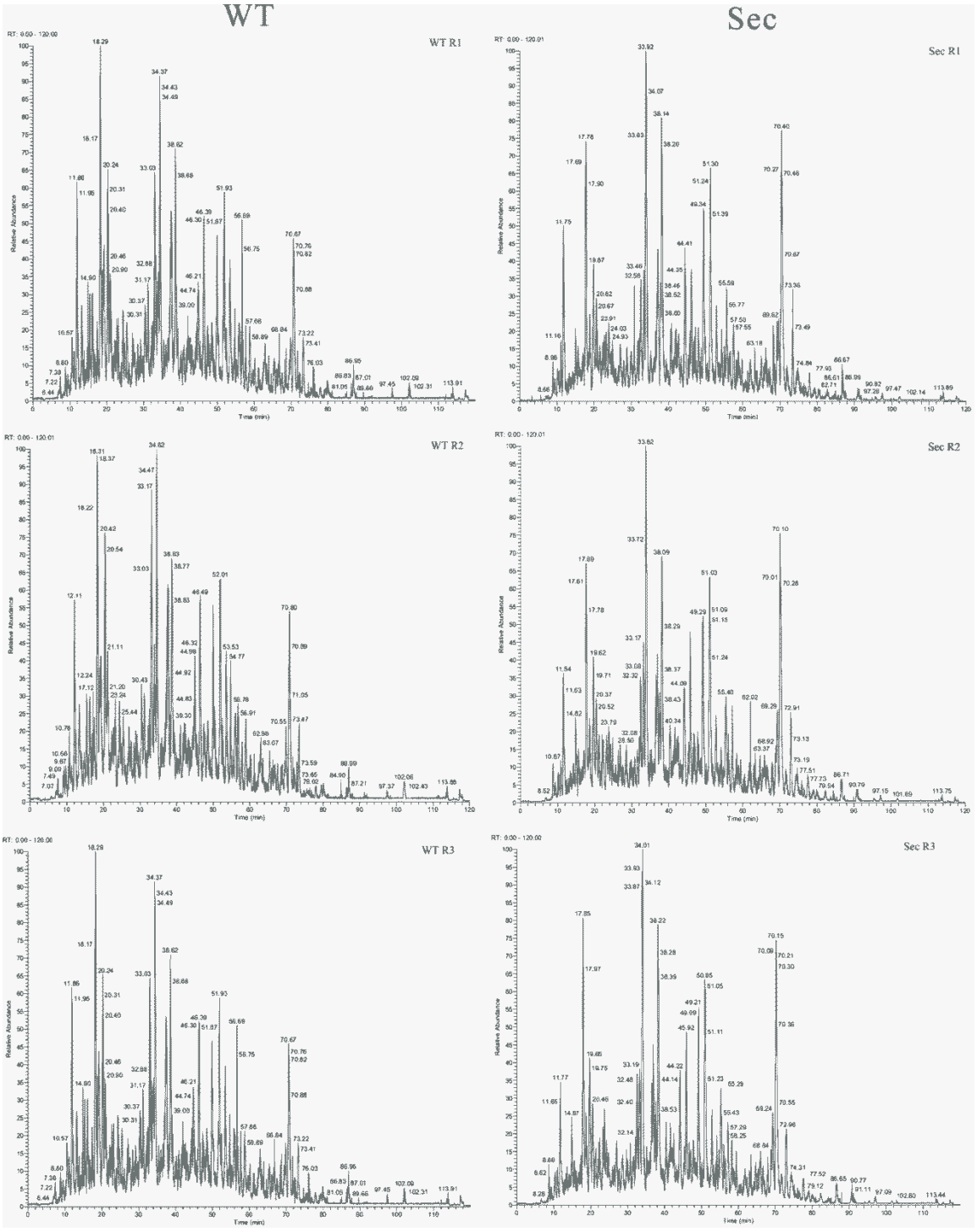

FIG. S1. **MS spectra profiles of the mitochondrial proteins isolated from the wild type (WT, left panels) and sector (Sec, right panels) cultures of *A. nidulans*.**

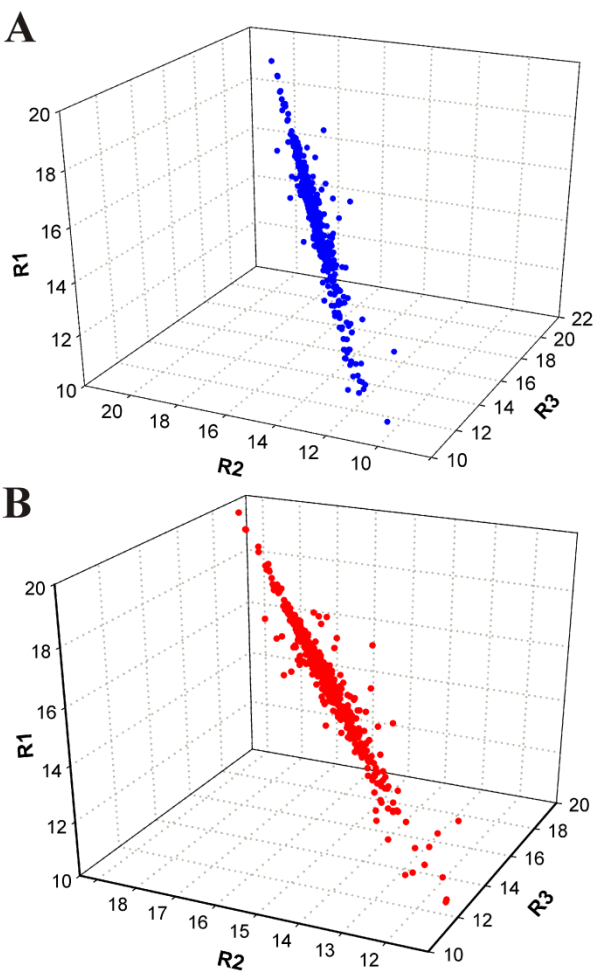

FIG. S2. **Regression analysis of technical triplication spectrum data of the wild type (WT) (*A*) and (Sec) (*B*) mitochondrial proteins.** R1-R3 represent data from repeats 1 to 3.

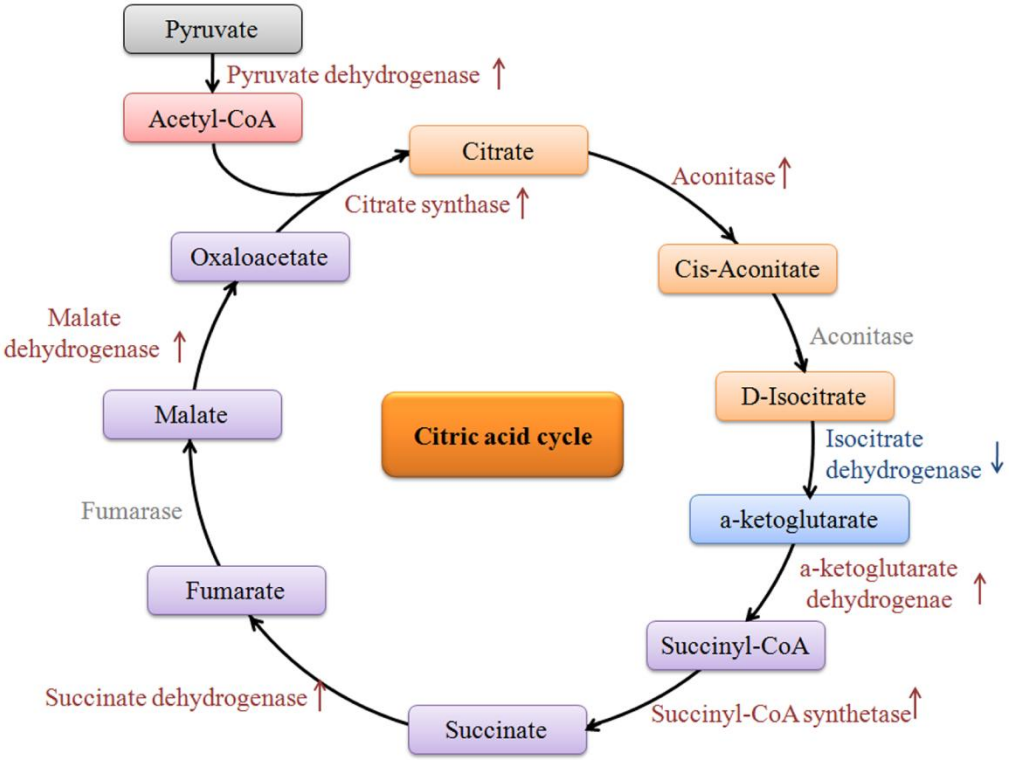

FIG. S3. **Schematic representation of up- or down-regulated mitochondrial proteins involved in citric acid cycle in the sector mitochondria when compared to the wild-type.**

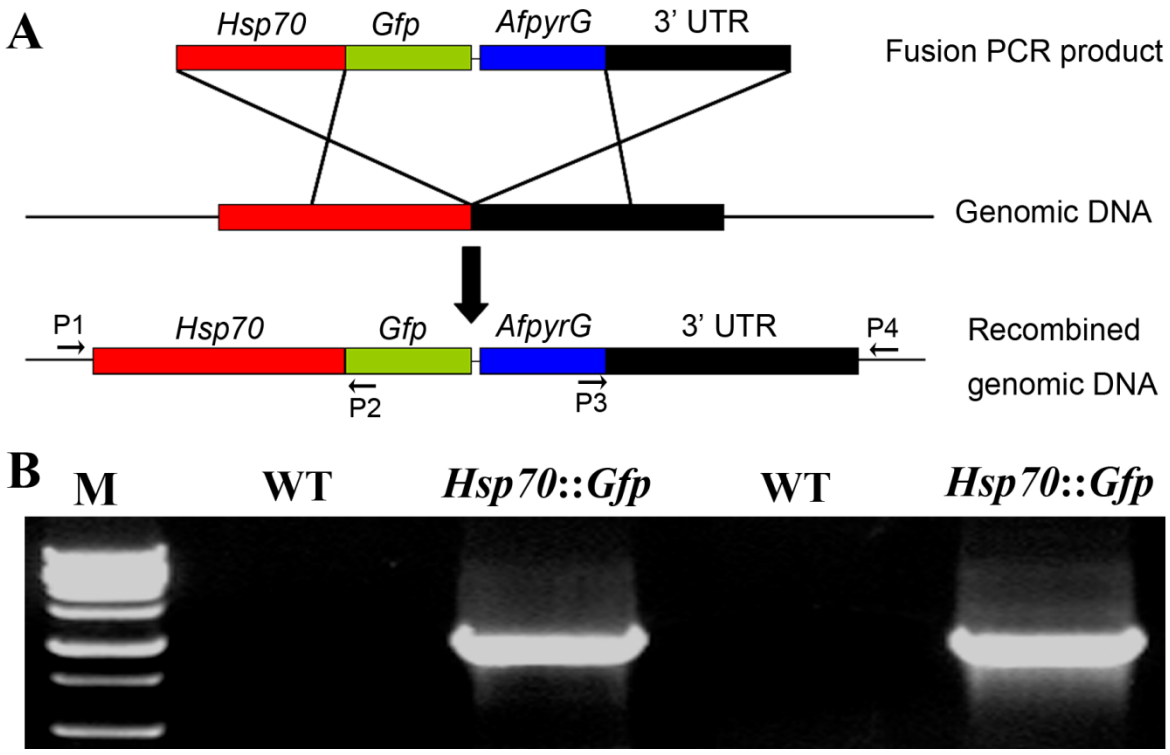

FIG. S4. **Fungal transformation and verification.** *A.* Construction of an *Hsp70*::*Gfp* gene fusion PCR cassette for replacement of endogenous *Hsp70* (AN5129) gene in the wild type (WT) *A. nidulans*. *B.* PCR verification of the acquired transformants using the primer pairs P1 (CCTGTTTGTCTCTTCTTTCTCCCC) and P2 (AACAGCTCCTCGCCCTTGCT) for lanes 1 and 2, and primers P3 (CATCAGTGCCTCCTCTCAGACAGT) and P4 (GACGCCAACTTCTTGGAAAGCT) for lanes 3 and 4, respectively.