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Methylglyoxal synthase regulates cell elongation via alterations of cellular 1 2 methylglyoxal and spermidine content in Bacillus subtilis 3 Sang-Min Shin¹, Sung-Hyun Song¹, Jin-Woo Lee, Min-Kyu Kwak*², Sa-Ouk 4 Kang*,3 5 Laboratory of Biophysics, School of Biological Sciences, and Institute of 6 7 Microbiology, Seoul National University, Seoul 151-742, Republic of Korea 8 9 * Corresponding authors at: Laboratory of Biophysics, School of Biological Sciences, 10 and Institute of Microbiology, Seoul National University, Seoul 151-742, Republic of Korea 11 E-mail addresses: genie6@snu.ac.kr (M.-K. Kwak) and kangsaou@snu.ac.kr (S.-O. 12 13 Kang) 14 Running title: Methylglyoxal stimulates Bacillus cell elongation 15 16 ¹These authors contributed equally to this work. 17 18 ² Current address: Department of Biological Sciences and Institute of Microbiology, 19 Seoul National University, Seoul 08826, Republic of Korea 20 ³ Current address: Irwee Institute, Research Park 940-521, Gwanak-ro 1, Gwanak-gu, 21 Seoul National University, Seoul 151-742, Republic of Korea 22

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