

## BW25113 菌株产品说明书

### 基本信息:

货号	产品名称	出品公司	原核抗性	产品规格	保存条件
HG-VJC0605	BW25113 菌株	CGSC	无	1ml 甘油菌/管, 1 管	-20℃或-80℃
备注	BW25113 菌株的培养温度为 30℃。				

### 基因型 (Genotype):

F-,  $\Delta$ (*araD-araB*)567,  $\Delta$ *lacZ*4787(::rrnB-3),  $\lambda^-$ , *rph-1*,  $\Delta$ (*rhaD-rhaB*)568, *hsdR514*

### 产品说明:

BW25113 菌株是日本庆应义塾大学 (Keio collection) 常用于大肠杆菌基因敲除的野生型菌株 (WT), 其详细信息如下:

BW25113 is a derivative of the F-,  $\lambda^-$ , E. coli K-12 strain BD792 (CGSC6159), which is a derivative of E. coli K-12 W1485. According to the CGSC, BD792 carries *rpoS*396(Am), but this mutation is not listed in the published genotype for BW25113, as according to Baba 2006, a pseudoreversion *rpoS* (Q33) allele was transferred from MG1655 into a predecessor of BW25113.

BW25113 was used to make the Keio Collection of single-gene knockouts. Available from the Coli Genetics Stock Center: CGSC#7636. The genotype for BW25113 in Datsenko et al. said the strain is *lacI<sup>Q</sup>*, but it was later shown to be *lacI<sup>+</sup>* (Baba et al.).

According to the CGSC, *lacZ*4787(del) has 4 tandem copies of the *rrnB* transcriptional terminator inserted by gene replacement into the region extending from near the *SacII* site near the N-terminus of *lacZ* through the promoter.

### 参考文献:

(1) Datsenko, KA, BL Wanner 2000. One-step inactivation of chromosomal genes in Escherichia coli K-12 using PCR products. Proc. Natl. Acad. Sci. U.S.A. 97(12):6640-5.

(2) Baba, T., T. Ara, M. Hasegawa, Y. Takai, Y. Okumura, M. Baba, K.A. Datsenko, M. Tomita, B.L. Wanner, H. Mori 2006. Construction of Escherichia coli K-12 in-frame, single-gene knockout mutants: the Keio collection. Mol Syst Biol 2:1-11

### 保存:

保存于 -20℃ 或者 -80℃。建议冻存前先做好分装, 以尽量避免反复冻融。

### 扩增:

可以直接用甘油菌接种, 建议取 200~300ul 甘油菌, 接种至 3~5ml 新鲜 LB 培养基 (无抗性) 中, 过夜摇菌即可。

也可以先用甘油菌划线, 然后挑单克隆, 再过夜摇菌。

注意此菌株的培养温度为 30℃。