

Figure S1

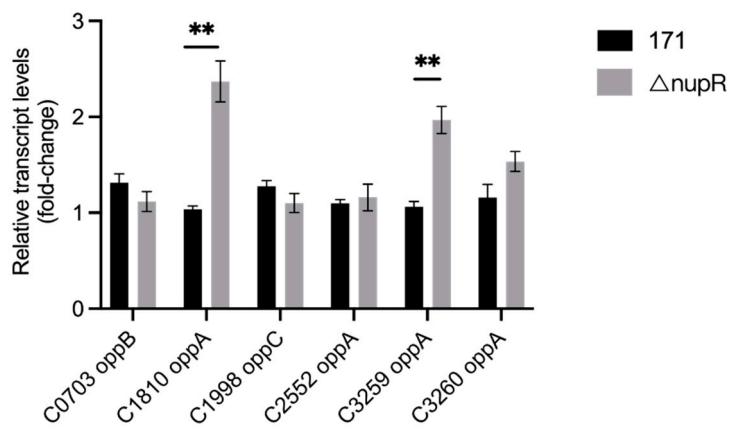


Figure S1. *opp* mRNA levels in BMB171 and $\Delta nupR$ cultivated in SSM medium (T2). **P < 0.01.

Table S1 Bacterial strains, plasmids used in this study.

Strain/ Plasmid	Description	purposes	Source (Reference)
Strains			
BMB171	B. thuringiensis strain BMB171; an acrystalliferous mutant strain; high transformation frequency		(He et al., 2010)
$\Delta nupR$	BMB171 deleted of <i>nupR</i>		(Qin et al., 2022)
BMB171(pRB1028- <i>spoOA</i>)	BMB171 containing plasmid pRB1028- <i>spoOA</i>	gene-knockout	this study ¹
$\Delta spoOA$	BMB171 deleted of <i>spoOA</i>		this study
BMB171(pHT1K- <i>PnupR</i>)	BMB171 containing plasmid pHT1K- <i>PnupR</i>	β -galactosidase assays	this study
BMB171(<i>PplcR-lacZ</i>)	BMB171 containing plasmid <i>PplcR-lacZ</i>	β -galactosidase assays	this study
$\Delta nupR$ (<i>PplcR-lacZ</i>)	$\Delta nupR$ containing plasmid <i>PplcR-lacZ</i>	β -galactosidase assays	this study
171(<i>Ppap</i>)	BMB171 containing plasmid <i>Ppap</i>	β -galactosidase assays	this study
$\Delta nupR$ (<i>Ppap</i>)	$\Delta nupR$ containing plasmid <i>Ppap</i>	β -galactosidase assays	this study
171(<i>Phemo</i>)	BMB171 containing plasmid <i>Phemo</i>	β -galactosidase assays	this study
$\Delta nupR$ (<i>Phemo</i>)	$\Delta nupR$ containing plasmid <i>Phemo</i>	β -galactosidase assays	this study
171(<i>Pplc</i>)	BMB171 containing plasmid <i>Pplc</i>	β -galactosidase assays	this study
$\Delta nupR$ (<i>Pplc</i>)	$\Delta nupR$ containing plasmid <i>Pplc</i>	β -galactosidase assays	this study
171(<i>Pmog</i>)	BMB171 containing plasmid <i>Pmog</i>	β -galactosidase assays	this study

			assays
$\Delta nupR$ (<i>mog</i>)	$\Delta nupR$ containing plasmid P <i>mog</i>	β -galactosidase assays	this study
BL21(pET <i>nupR</i>)	BL21(DE3) with pET <i>nagR2</i> plasmid	protein purification	(Qin et al., 2022)
Plasmid			
pHT1K-lacZ	B. thuringiensis-E. coli shuttle plasmid; Amp ^R Erm ^R , pH1K vector harboring the promoter-less lacZ gene, transformed into BMB171 and used for β -galactosidase activity	β -galactosidase assays	
P <i>plcR</i> -lacZ	lacZ with the promoter and the 5' non-coding region of <i>plcR</i> in Nco I and Bam HI sites of pH1K	β -galactosidase assays	this study
P <i>pap</i>	lacZ with the promoter and the 5' non-coding region of <i>pap</i> in Nco I and Bam HI sites of pH1K	β -galactosidase assays	this study
P <i>hemO</i>	lacZ with the promoter and the 5' non-coding region of <i>hemO</i> in Nco I and Bam HI sites of pH1K	β -galactosidase assays	this study
P <i>plc</i>	lacZ with the promoter and the 5' non-coding region of <i>plc</i> in Nco I and Bam HI sites of pH1K	β -galactosidase assays	this study
P <i>mog</i>	lacZ with the promoter and the 5' non-coding region of <i>mogR</i> in Nco I and Bam HI sites of pH1K	β -galactosidase assays	this study
pRP1028	B. thuringiensis-E. coli shuttle plasmid; Amp ^R Erm ^R ; containing <i>turbo-rfp</i> gene and an I-Sce I recognition site pRP1028 with the upstream and downstream regions	gene-knockout	
pRP1028- <i>spoOA</i>	of <i>spoOA</i> , intermediate vector in gene-knockout experiments	gene-knockout	this study

¹ the stain or plasmid is constructed for this research and stored in our laboratory at -80°C

He, J., Shao, X., Zheng, H., Li, M., Wang, J., Zhang, Q., Li, L., Liu, Z., Sun, M., Wang, S., Yu, Z. Complete genome sequence of *Bacillus thuringiensis* mutant strain BMB171. J Bacteriol. 2010 Aug;192(15):4074-5.

Qin, J., Cao, Z., Cai, X., Fang, Y., An, B., Li, X., Zhang, Y., Tian, H., Hu, W., Yan, B., & Cai, J. (2022). NupR Responding to Multiple Signals Is a Nucleoside Permease Regulator in *Bacillus thuringiensis* BMB171. Microbiology spectrum, 10(4), e0154322.