

Supplemental text for

Genome-wide mapping of TnrA-binding sites provides new insights into the TnrA regulon in *Bacillus subtilis*

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Supplemental Figures Legend.

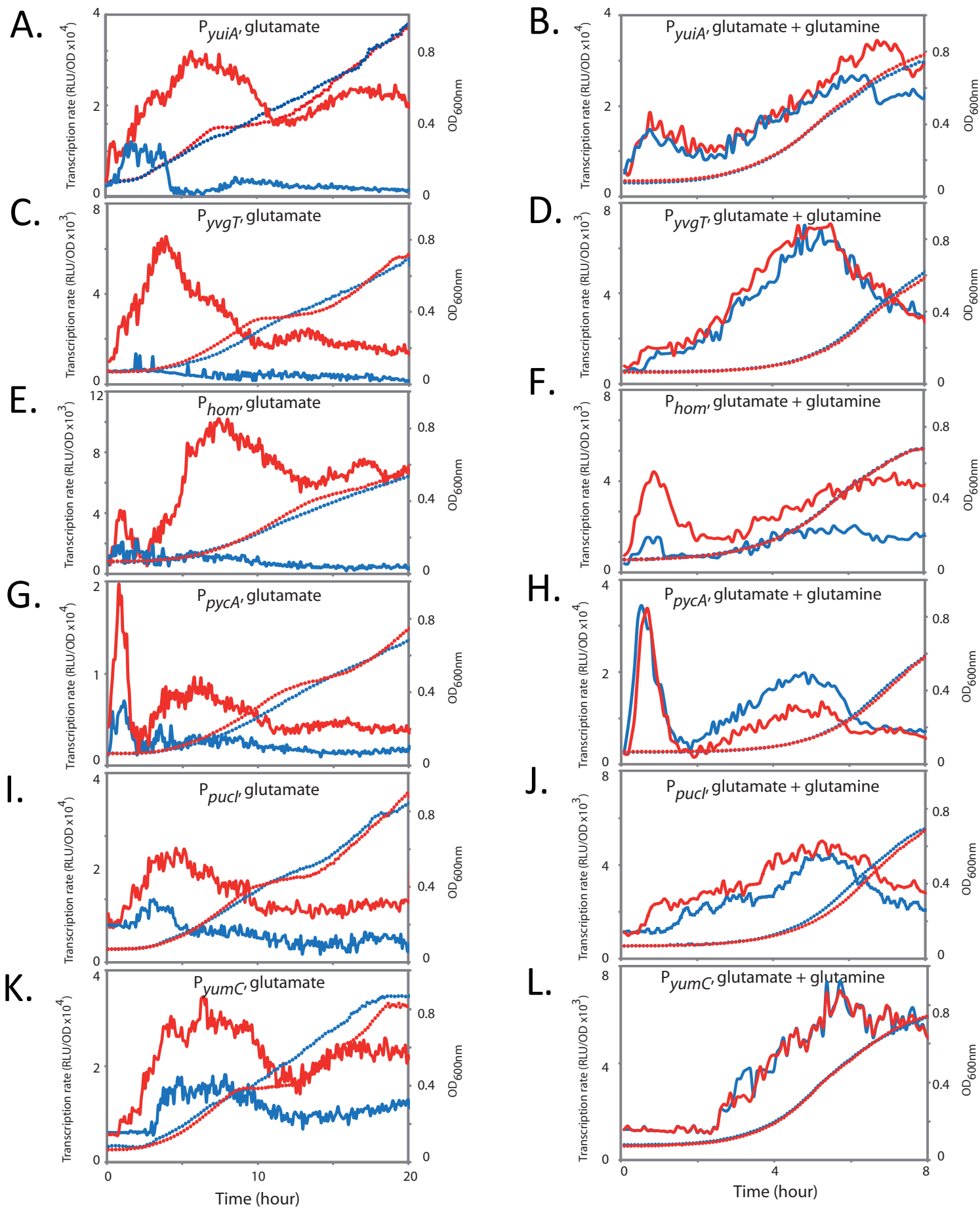
Figure S1. Direct involvement of TnrA as repressor in the control of *yuiA*, *yvgT*, *hom*, *pycA*, *pucl* and *yumC* expression.

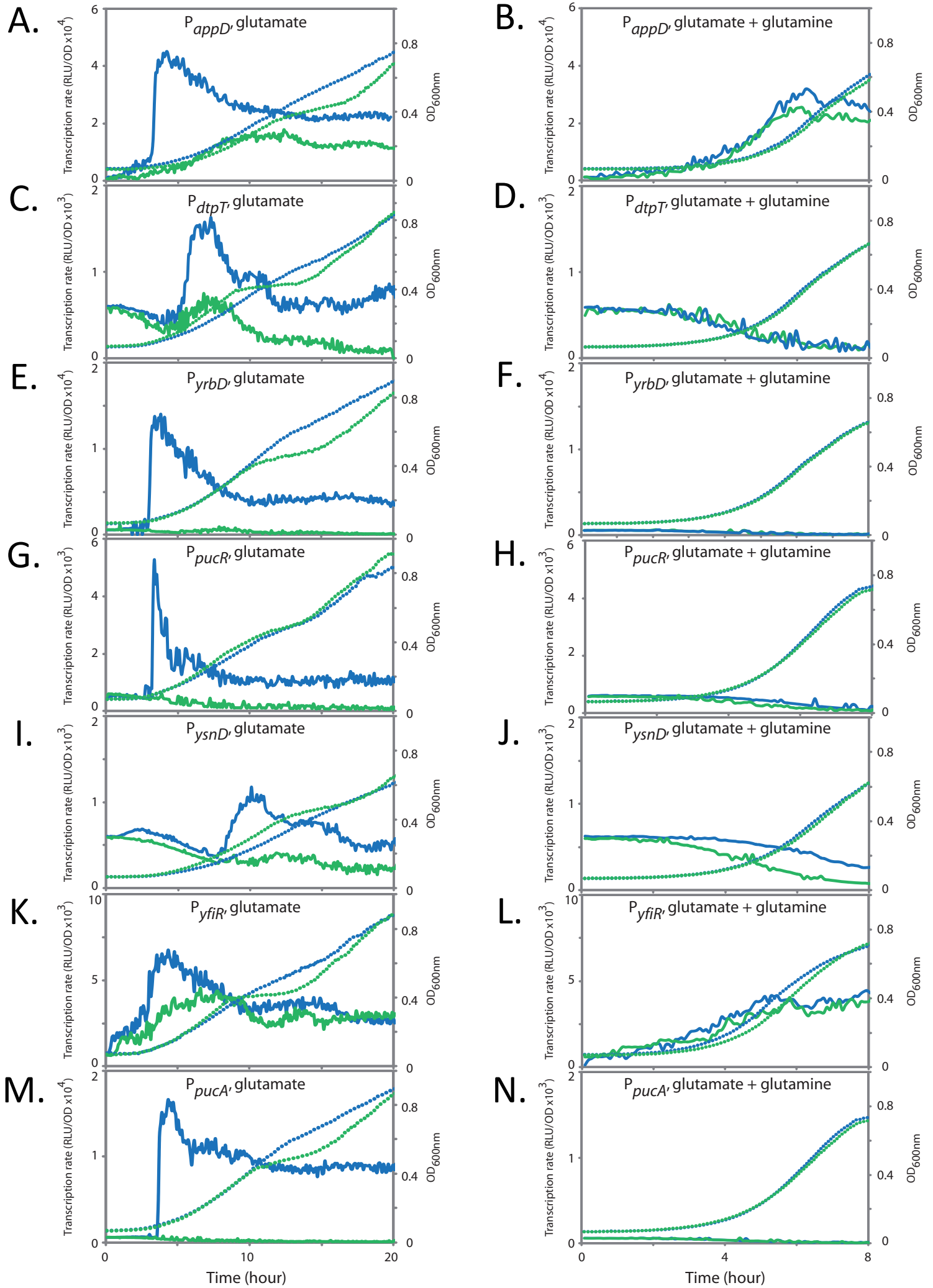
Strains were cultivated in minimal medium with glutamate (left panels A, C, E, G, I and K) or with glutamate + glutamine (right panels B, D, F, H, J and L) as nitrogen source. Growth (OD_{600nm}) was monitored every 5 min: blue circles, wild-type; red circles, $\Delta tnrA$. Promoter activity (RLU/OD) of each transcriptional fusion with the *luc* reporter gene is indicated: blue lines, in the wild-type; red lines, in $\Delta tnrA$ cells. Growth and promoter activity were followed for the 6 genes *yuiA*, *yvgT*, *hom*, *pycA*, *pucl* and *yumC*. For each strain, one representative curve, out of three independent replicates realized, is shown. Note that the X-axes are different for paired panels to get a better view of the data.

Figure S2. Direct involvement of TnrA as activator in the control of *appD*, *dtpT*, *yrbD*, *pucR*, *ysnD*, *yfiR* and *pucA* expression.

Strains were cultivated in minimal medium with glutamate (left panels A, C, E, G, I, K and M) or with glutamate + glutamine (right panels B, D, F, H, J, L and N) as nitrogen source. Growth (OD_{600nm}) was monitored every 5 min: blue circles, wild-type; green circles, $\Delta tnrA$. Promoter activity (RLU/OD) of each transcriptional fusion with the *luc* reporter gene is indicated: blue lines, in the wild type; green lines, in $\Delta tnrA$ cells. Growth and promoter activity were followed for the 7 genes *appD*, *dtpT*, *yrbD*, *pucR*, *ysnD*, *yfiR* and *pucA*. For each strain, one representative curve, out of three independent replicates realized, is shown. Note that the Y-axes are different for some paired panels to get a better view of the data.

Figure S3. Alignment of TnrA box sequences from the TnrA primary and secondary regulon.





<i>glnQ</i>	(+)	-28	GGTCAAATTTTCTGATA
<i>nasA</i>	(-)	-82	TGTAAGTTTTGTGACA
<i>nasD</i>	(+)	-85	TGTTACATTTTATAACA
<i>nrgA</i>	(-)	-102	TGTAAGATTTTCCTGACA
<i>oppA</i>	(-)	-231	CGTTAGTTTTTCTTCCA
<i>pucJ</i>	(+)	-140	TGTTACATTTTCTTACA
<i>tnrA</i>	(+)	-124	TGTTAATTTTTCTTCCG
<i>yzkB</i>	(-)	-87	TGTTAATTTTTCTTCCG
<i>ureA</i>	(-)	-938	TGTTATATTTATTACACA
<i>ycsF</i>	(+)	-145	TGGTAGGTTTTCTGACA
<i>ycsF</i>	(-)	-52	TGTCATTTATTGTCCCG
<i>gabP</i>	(+)	-103	TGGTATATTTCTTACA
<i>yrbD</i>	(-)	-96	TGTCACATTAATGACC
<i>appD</i>	(-)	-119	AGTTGTATATTATTACA
<i>dtpT</i>	(+)	-212	TCTAAAAATTTATTAAA
<i>dtpT</i>	(-)	-175	CGTGAGATTTTCTTACA
<i>pucR</i>	(+)	-140	TGTCAGTTTATGTAAACA
<i>ysnD</i>	(+)	-141	TGGAAGATTTTATAACA
<i>ysnD</i>	(+)	-97	TGACAGATCATCTTGCA
<i>ywrD</i>	(+)	-83	CGTCACTTTTTCTGCCG
<i>glnR</i>	(+)	-82	TGTTAAGAAATCCTTACA
<i>glnR</i>	(-)	-59	TGTTATAATTAATGTGCA
<i>gltA</i>	(+)	-51	TGTTAGATTTTATGACC
<i>ilvB</i>	(-)	-736	TGACAGATCATCTTGCA
<i>ilvB</i>	(-)	-692	TGGAAGATTTTATAACA
<i>pel</i>	(+)	-27	TGTGAGATTTTATTCCA
<i>yoyD</i>	(+)	-61	TGTGATCTTTTCTTACA
<i>ywdI</i>	(-)	-92	TGTTATTTTTTCTGACA
<i>yycC</i>	(+)	-66	TGTGACATCTTCTTACA
<i>yttA</i>	(-)	-69	TGTTAGATTTTTTTCACG
<i>ywlF</i>	(-)	-154	TTGCAGATTTTCTGACA
<i>alsT</i>	(-)	-61	TGTTAGATTTTTTAAACA
<i>degU</i>	(-)	-159	TGTCATCGTTCCTTCCA
<i>yuiA</i>	(-)	-78	AGTCAGATCATGTGACA
<i>yvgT</i>	(-)	-39	TGTTAAATTTTCTGACG
<i>yfiR</i>	(-)	-31	TCTGCAATTTTCTTACC
<i>hom</i>	(-)	-203	AGTCAGATTTTCTCCTC
<i>pycA</i>	(+)	-87	TGTTTATCTGTAAAAAA
<i>braB</i>	(-)	-55	TGTTAGATTTTCTTCCCT
<i>ydaB</i>	(-)	-55	TGTTAGATTTTCTTCCCT
<i>yfll</i>	(+)	-345	CGTCAGATTTTCTCCAA
<i>ykkC</i>	(-)	-243	TGTAAGATTTTCTTTTCA
<i>ypqP</i>	(-)	+20	AAACAGCTTTTTCAGATA
<i>yugK</i>	(-)	-45	AAACAGATTTTCCATTG
<i>kamA</i>	(+)	+168	CGTCAGAAATTTCTACCA
<i>ykoH</i>	(-)	+330	CGTCAGGTTTCTCACAA

TnrA primary regulon

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