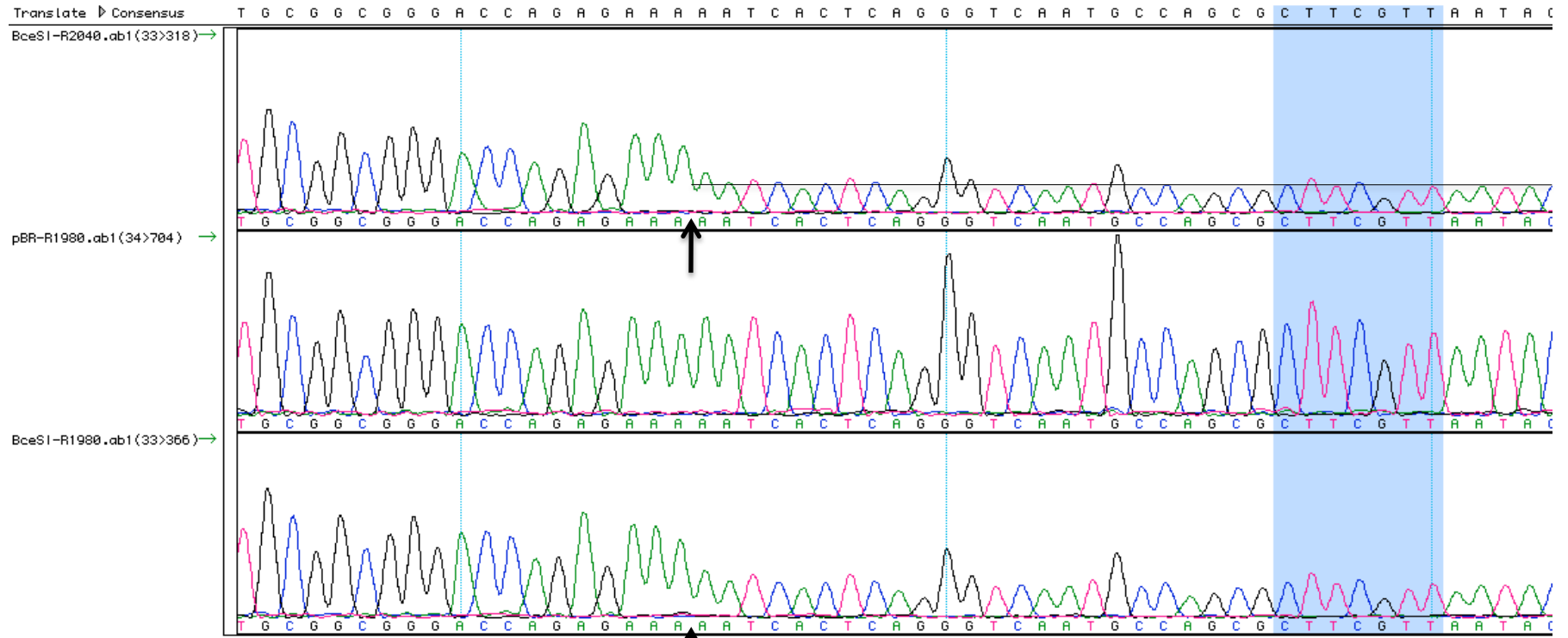


Supplementary Figure S1



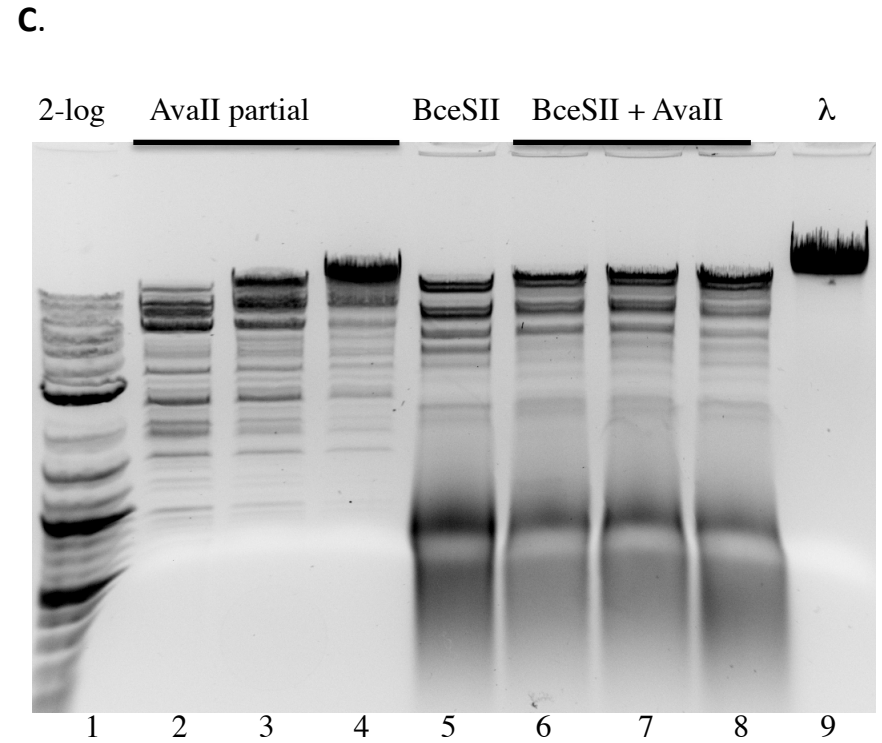
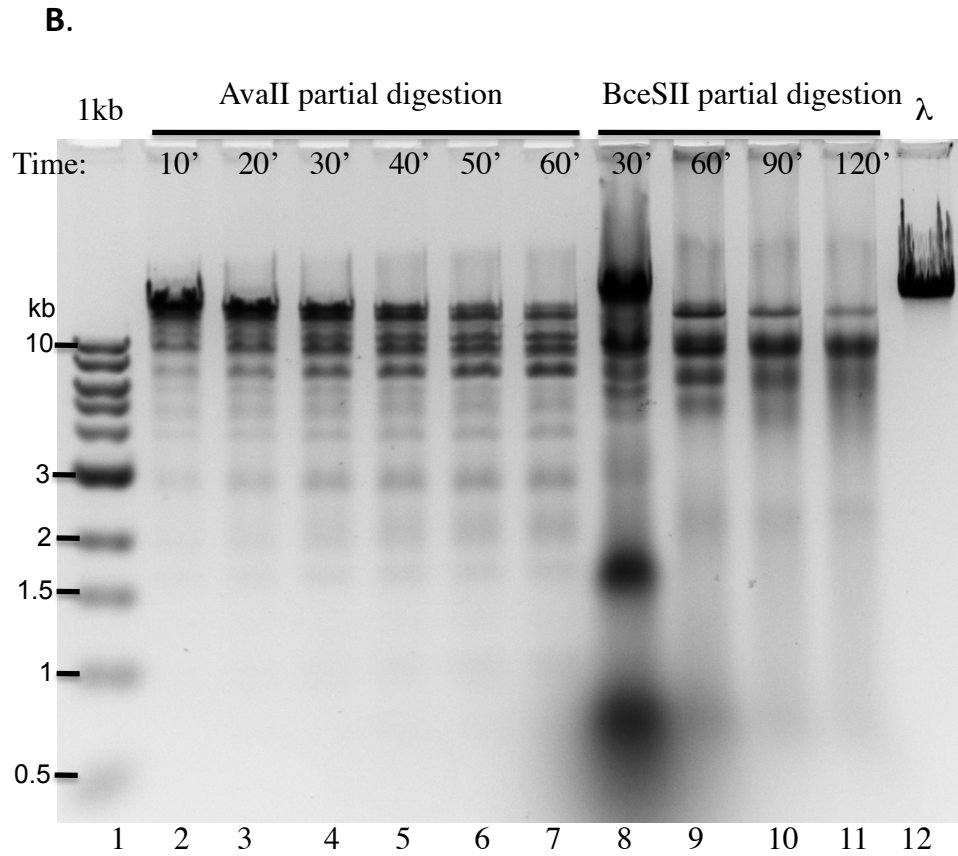
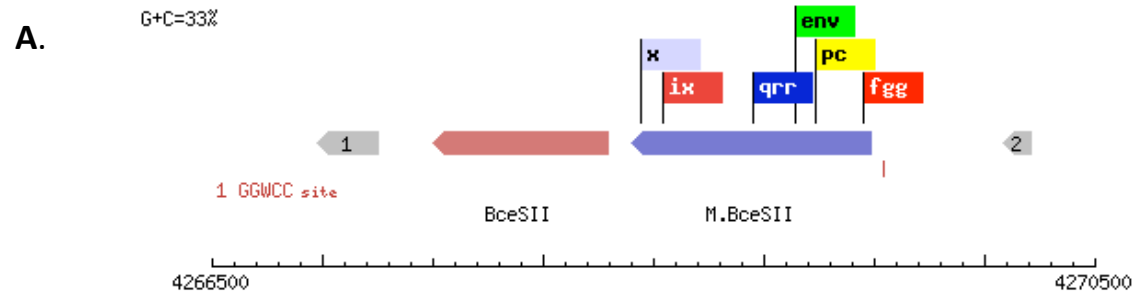
N24 (top strand)

5' AACGAAGCGCTGGCATTGACCCTGAGTGATT ↓ TTTCTCTGGTCCCGCCGCA 3' (template)

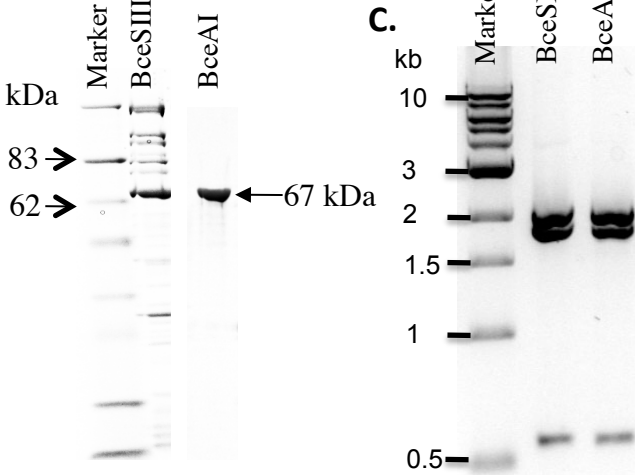
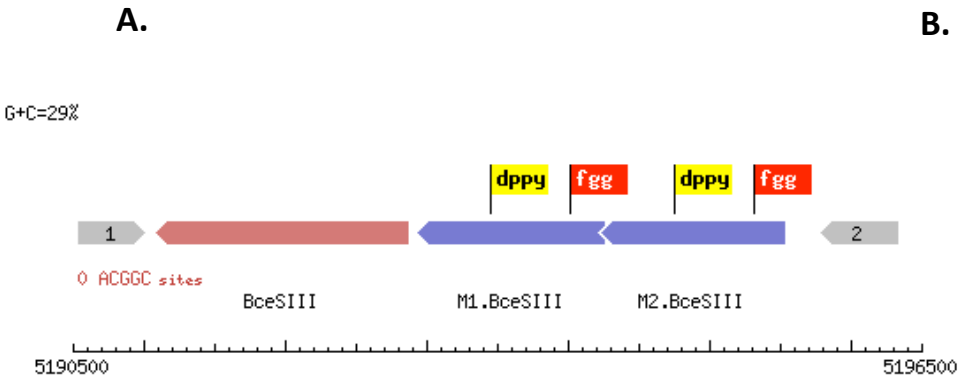
3' ttgcttcgcgaccgtaactgggactcactaa **AAAGAGACCAGGGCGGCGT** 5' ←

Seq primer

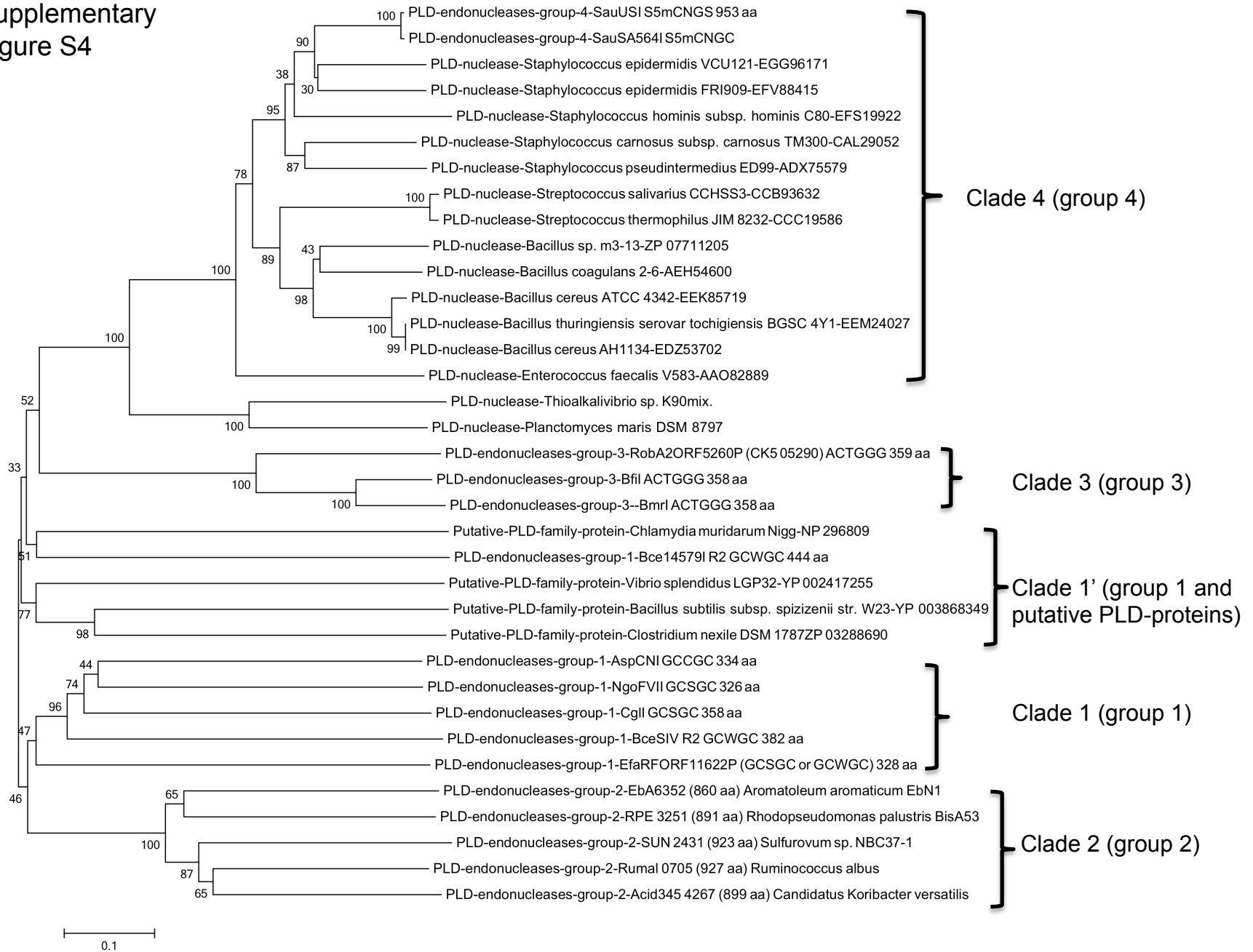
Supplementary Figure S2



Supplementary Figure S3

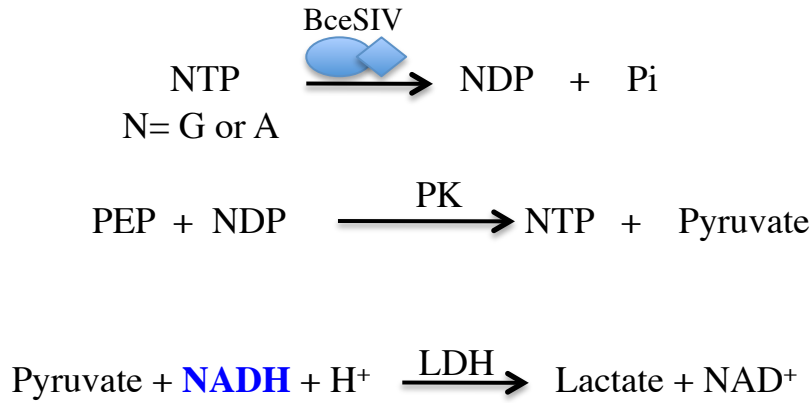


Supplementary
Figure S4



Supplementary Figure S5

A.



C.

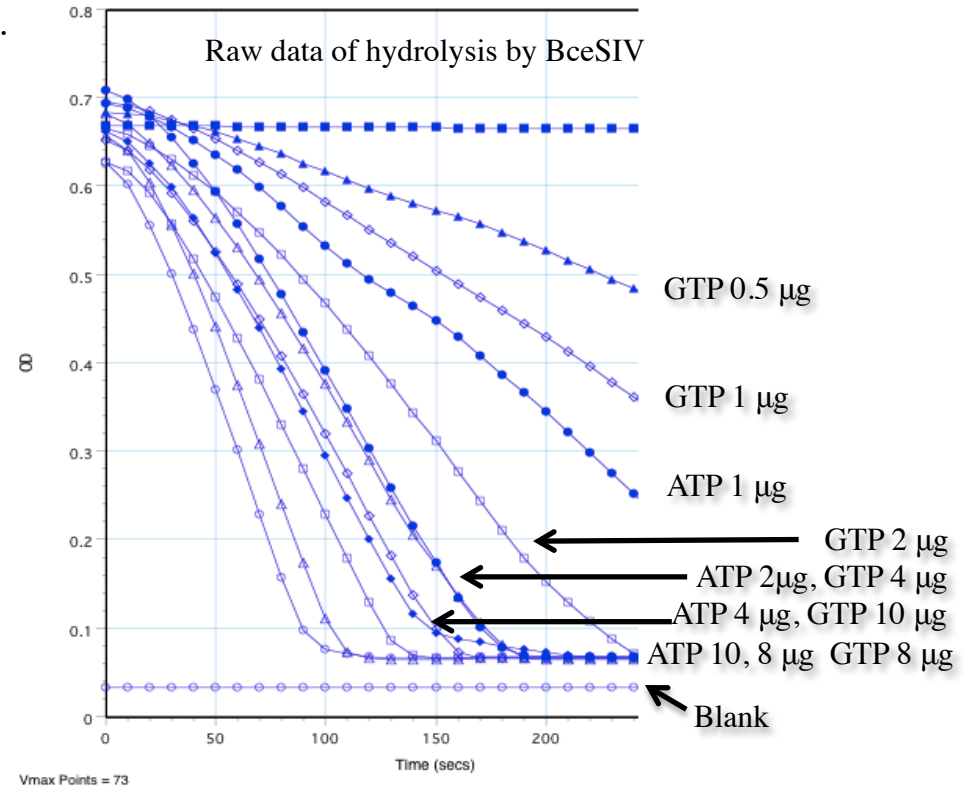
Sample
 10 µg enzyme
 8 µg enzyme
 4 µg enzyme
 2 µg enzyme
 1 µg enzyme
 0.5 µg enzyme

V_a (apparent velocity)

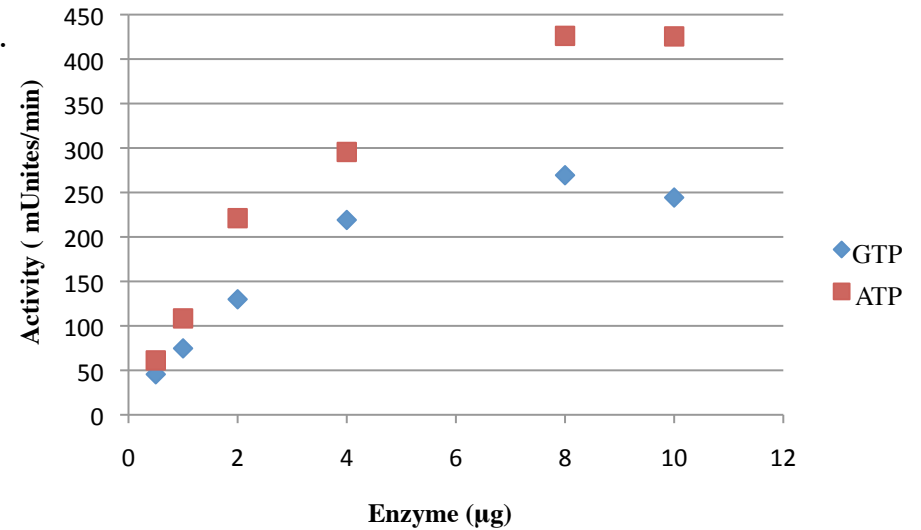
ATP	GTP
425.5	244.3
426.1	269.4
295.6	219.1
221.1	129.9
108.4	74.7
61.2	45.6

Blank 0
 0 µg enzyme 0
 reactions contain 0.5 µg lambda DNA

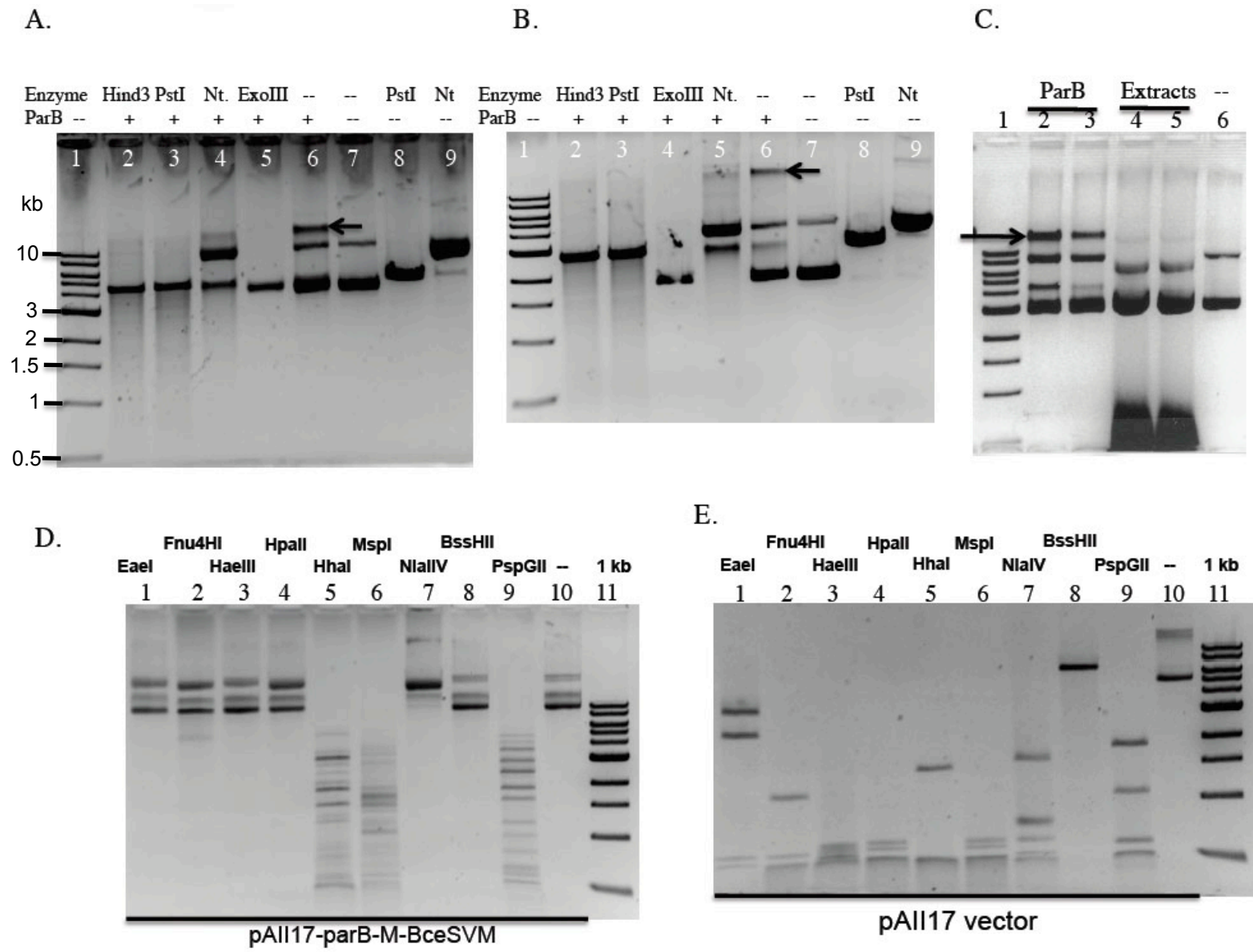
B.



D.



Supplementary Figure S6



Supplementary Figure S7

