**Supplementary Table 5.** Primers used for *E. coli* plasmid constructions.

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Name** | **Sequence (5’ to 3’)** | **Reference** |
| 1 | 5-pPbpX2extra | AGATATACCATGGCTACAGAGCGGCAAGCAGC | This study |
| 2 | 3-pPbpX2 extra | TCGACTCGAGCTTAATATCACCCTTCATTAATTCCGTAAAAATCTTG | This study |
| 3 | 5-pPbpX2 extra S128A | GTTGCTAGCTGGCATTATTCGC | This study |
| 4 | 3-pPbpX2 extra S128A | GCGAATAATGCCAGCTAGCAAC | This study |