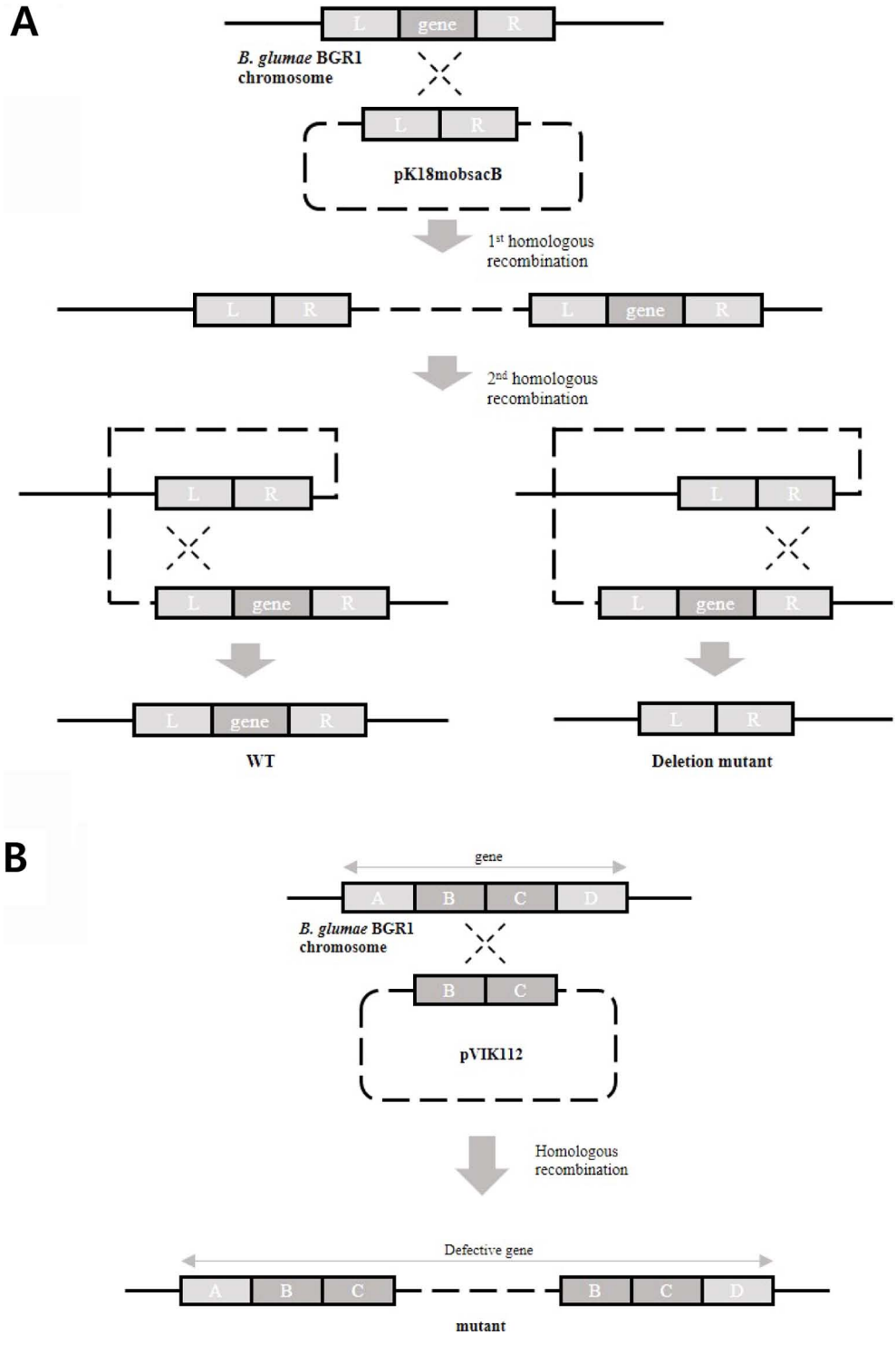
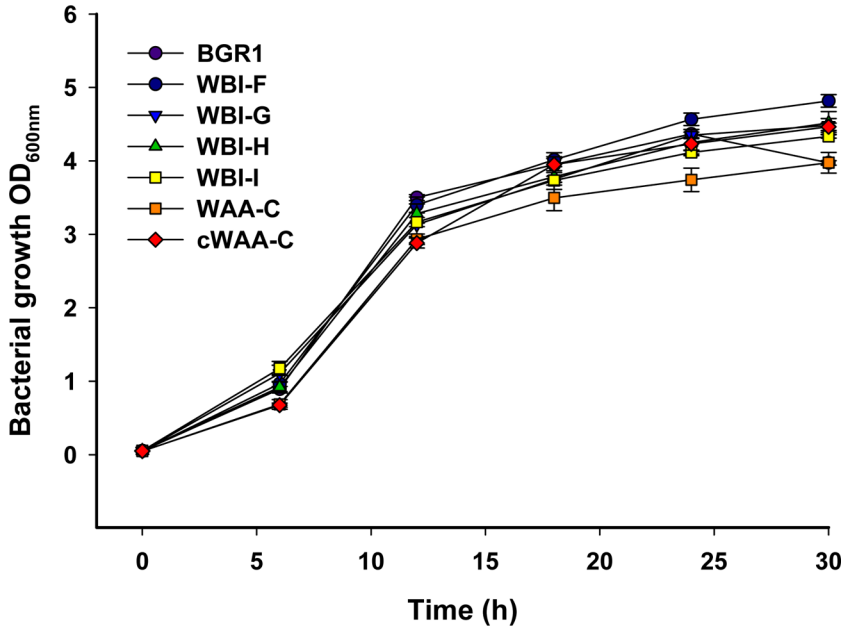
Supplementary Table 1. Primers used in this study

Primer name	Sequence (5′ to 3′)
*wbiF*_LF	AAAAAGAATTCCATCCACGCCATCGGGAAAC
*wbiF*_LR	AAAGGATCCTTACGATCTGAGCCTGCGTAC
*wbiF*_RF	AAAGGATCCTACGCCACGATCGACACCACGA
*wbiF*_RR	AAAAAGCTTTGCATGAGCGCAACACCATCAAGG
*wbiF*_up_F	ACCGCCTTGATACTGCTGAC
*wbiF*_down_R	ATTTCCTGATGTATGCGTATGC
*wbiG*_LF	AAAAAGAATTCGGGAAAAGCGGTGGTAAGCATGAT
*wbiG*_LR	AAAGGATCCGCTGACCGTCTCCGAACTGCT
*wbiG*_RF	AAAGGATCCATTCGCTTGCCTGCCCGATGG
*wbiG*_RR	AAAAAGCTTTGAGCCTGCGTACCCACGAG
*wbiG*_up_F	CAGCCACCCACACGCGGAAT
*wbiG*_down_R	GCTTCATGCTGTTTCGCACCTC
*wbiH*_LF	AAAAAGAATTCGATGCTTTGGGTCGAATCATGGG
*wbiH*_LR	AAAGGATCCAGCGGGTCGTCATGATGGGT
*wbiH*_RF	AAAGGATCCCCCAGCAGCACACGCAAGATCA
*wbiH*_RR	AAAAAGCTTAGATCGACCGGCTCACGCAGAA
*wbiH*_up_F	CCGTTGAAACGGACCAGATAGC
*wbiH*_down_R	GCTCGCTGACCGTCTCCGAACT
*wbiI*_LF	AAAAAGAATTCGCTGGTGTTCGTCTTCACCTAC
*wbiI*_LR	AAAGGATCCGCGAGAAGCTCTACGAGGAACT
*wbiI*_RF	AAAGGATCCCTCGCGAATACCCACAGCC
*wbiI*_RR	AAAAAGCTTGCGCATCGTGAGCATTACTATCA
*wbiI*_up_F	CTCGTCTACAAGCGGCTGAT
*wbiI*_down_R	GGCTTCCTGTTGCTCAATTTC
*waaC*_F	AAAAAGAATTCTACGACCTCGTGATCGACTGC
*waaC*_R	AAGGTACCTGCGTATCAAGACCGAAATCGAG
Lacfuse_R	GGGGATGTGCTGCAAGGCG
*waaC*_up_F	CCAAGCTGCCGTTCTGACG
pK18mobsacB_down_R	GTGAAGCTAGCTTATCGCCAT
Promoter_F1	AAGGTACCCGGCAATCAGGATTCGCATG
Promoter_R1	AAAAAGCTTGAATCGTCCTTTGCTATGATGAG
Promoter_F2	AAAAAGCTTCGGCAATCAGGATTCGCATG
Promoter_R2	AAAAAGAATTCGAATCGTCCTTTGCTATGATGAG
*wbiF*_C_F	AAAAAGCTTATGCACGATTTCGACGCTTCC
*wbiF*_C_R	AAAGGATCCATCCACGCCATCGGGAAAC
*wbiG*_C_F	AAAAAGAATTCGTGACGCGGATCGTCGTGAC
*wbiG*_C_R	AAAGGATCCACACGCAAGATCAGCGTGCT
*wbiH*_C_F	AAAAAGAATTCATGCTTACCACCGCTTTTCCC
*wbiH*_C_R	AAAGGATCCAGGCTCGCGAATACCCACAG
*wbiI*_C_F	AAAAAGCTTATGATTCGACCCAAAGCATCCTG
*wbiI*_C_R	AAAGGATCCTTCGTCTTCACCTACGTATGGC
*waaC*_C_F	AAAGGATCCGTGCAAAAAATTCTGATCGTGC
*waaC*_C_R	AAAAAGAATTCAGCTTCGGGAAATACAGCAC
pBBR1MCS-2_F	GACTCACTATAGGGCGAATTG
pBBR1MCS-2 _R	CACACAGGAAACAGCTATGAC
M13F	GTAAAACGACGGCCAGT
M13R-pUC(-40)	CAGGAAACAGCTATGAC

The underline shows restriction site: GAATTC, *Eco*RI; GGTACC, *Kpn*I; GGATCC, *Bam*HI; AAGCTT, *Hind*III.



Supplementary Fig. 1. Schematic diagram for the construction of defective mutants used in this study. (A) The deletion mutation used for *wbiF*, *wbiG*, *wbiH*, and *wbiI*. (B) The insertion mutation used for disruption of *waaC* gene.



Supplementary Fig. 2. Growth rate of *Burkholderia glumae* BGR1 Wild-type, the O-antigen mutants *wbiF*, *G*, *H*, *I*, the core oligosaccharide biosynthesis-related *waaC* mutant and its complementary strain, C*waaC*. Bacterial cultures were incubated in Luria-Bertani medium at 37°C with 200 rpm shaking and growth was monitored by measuring the absorbance at optical density $(OD)_{600nm}$ every 6 h.