

**Additional file 3: Table S1.** Sequence of primers used in this study.

Primers	Sequence
Ph1	5'-GCTCTAGATGCGCCGTCTTGTAGATCTCC-3'
Ph2	5'-TCCCCCGGGCGGCGACCGACGCCGG-3'
Ph3	5'-CGGACACTCGCATGGACGTCCTTACCGGCCCTGTCGTTC-3'
Ph4	5'-GCTCTAGAGCTGGCACGAGTGGCAGTTGGCG-3'
Ph33	5'-GGGCGGAGCGGCAAGGGCCATCTTACCGGCCCTGTCGTTC-3'
Ph34	CGTTCCGGCGGAAGGCGGAATTCCTTACCGGCCCTGTCGTTC
Pkanjk-up1	5'-TTTGATCCAGCGATGGCCCTTGCCGCTCC-3'
Pkanjk-down1	5'-GCGAAGCTTCATCGGCCGAAATCACACCAG-3'
Pkanjk-up2	5'-CCGGTTGGTAGGATCCAGCGATGGCCCTTGCCGCTCCGCCC-3'
Pkanjk-down2	5'-TCCCCGGGTCCAGTCACACCAGCCCTGGCGCGGTG-3'
Pkanjk-up3	5'-GAACGACAGGGCCGGTGAAGATGGCCCTTGCCGCTCCGCCC-3'
Pkanjk-up4	5'-CAACGTTCCGAGAGGTTGTCCATGGATGGCCCTTGCCGCTCCGCC-3'
Perm-down	5'-GGGCGGAGCGGCAAGGGCCATCGCTGGATCCTACCAACCGG-3'
Perm-up	5'-GAACGACAGGGCCGGTGAAGGACGTCCATGCGAGTGTCCG-3'
PhrdB-up	5'-GAACGACAGGGCCGGTGAAGGAATTCCGCCTTCGCGCGGAACG-3'
PhrdB-down	5'-GGCGGAGCGGCAAGGGCCATCCATGGACAACCTCTCGGAACGTTG-3'
Pvk1	5'-AAGCTTTGGGACGAGGGTCAGTGGGA-3'
Pvk2	5'-CATATGATGAACGCGCTGGTGGCAG-3'
Pvp1	5'-TGTGCCACACGCCATTC-3'
Pvp2	5'-GCAGCATCAAGCCGGTTCTCA-3'