Table S1. Bacterial strains used in this study

Strain	Genotype and use	Reference
E.Coli S17-1	A conjugative donor strain [*thi pro hdsR hdsM+ recA*; chromosomal insertion of RP4-2 (Tc::Mu Km::Tn7)].	[45, 48]
R. palustris TIE-1	Served as the wild type strain of *R. palustris* TIE-1.	[30]
RCKO	*kaiC^{Rp}* knockout strain (1674bp deleted from *kaiC^{Rp}* gene in *R. palustris* TIE-1)	This study
RCKO-FLAG*kaiC^{Rp}*	A FLAG-tagged *kaiC^{Rp}* ectopically inserted into the genome of RCKO.	This study
RCKO-HA*kaiC^{Rp}*	A HA-tagged *kaiC^{Rp}* ectopically inserted into the genome of RCKO.	This study