

## Appendix D Annotated information of 25 deleted genes

Locus_tag	Transcription direction	Gene annotation information	Transcriptional organization <sup>a</sup>
SeseC_01867	+	Transposase	Monocistronic
SeseC_01869	-	Tn5252 transposon protein	Polycistronic①
SeseC_01870	-	Conserved hypothetical protein S	Polycistronic①
SeseC_01872	-	Purine NTPase	Polycistronic②
SeseC_01873	-	Conserved hypothetical protein	Polycistronic②
SeseC_01874	-	Predicted protein	Polycistronic②
SeseC_01875	-	Zeta toxin (PezT)	Polycistronic②
SeseC_01876	-	Epsilon antitoxin (PezA)	Polycistronic②
SeseC_01877	-	Conserved hypothetical protein	Polycistronic③
SeseC_01878	-	Conserved hypothetical protein	Polycistronic③
SeseC_01879	-	Conserved hypothetical protein	Polycistronic③
SeseC_01880	-	Conserved hypothetical protein	Polycistronic③
SeseC_01881	-	ABC transporter, ATP-binding protein	Polycistronic④
SeseC_01882	-	Heme biosynthesis protein	Polycistronic④
SeseC_01883	-	Hypothetical protein	Polycistronic⑤
SeseC_01884	-	Radical SAM domain protein	Polycistronic⑤
SeseC_01885	-	Hypothetical protein	Polycistronic⑤
SeseC_01886	-	Transcriptional regulator, MutR	Monocistronic
SeseC_01887	-	Conserved hypothetical protein	Polycistronic⑥
SeseC_01888	-	Conserved hypothetical protein	Polycistronic⑥
SeseC_01891	-	Helicase	Polycistronic⑥
SeseC_01894	-	Helicase	Polycistronic⑦
SeseC_01895	-	Conserved hypothetical protein	Polycistronic⑦
SeseC_01896	-	Glucan-binding protein	Polycistronic⑦
SeseC_01898	-	Conserved hypothetical protein	Monocistronic

<sup>a</sup>Several genes with the same number are co-transcribed according to the transcriptome analysis of ATCC35246.