

**Table S5:** Primers used in this study.

Amplicon	PA number	Primer	Sequence 5'-3'	Position (from the AUG)	Length
Coding regions					
<i>czcC</i>	PA2522	<i>czcC</i> 1	GGTCAGCATCGGCAGCAAGTACG	834	206
		<i>czcC</i> 2	GGTCGTAGGCCTGTACCGCTTCG	1039	
<i>czcD</i>	PA0397	574	GGCGTGGCCTTCTATATCCT	285	183
		575	TCCAGACCTCCAGGTAGGC	450	
<i>ptrA / c</i>	PA2808	754	CGTACCTTCACTGCCTCCAC	502	176
		755	TTGTCCTTCTTCGTCGCTTC	179	
	PA2807	576	GGTGCTCGGCGATATGTACT	212	158
		577	GCATCTCCAGCATCTCCTTC	350	
<i>oprD</i>	PA0958	<i>oprD</i> 1	ATCTACCGCACAAACGATGAAGG	772	156
		<i>oprD</i> 2	GCCGAAGCCGATATAATCAAACG	927	
<i>oprF</i>	PA1777	594	GGTACTTCTTGACCGACGA	172	209
		595	TCGCTGTTGATGTTGGTGAT	380	
<i>a</i>	PA2807	1338	TTGACCTCGATCGCCCGAGG	238	222
		1339	ACAGGATAGGCGACATCAAC	35	
<i>b</i>	PA2807-08	1340	AGGCGGCGCGGAAACATACG	70	318
		1341	ACCAGGAGAAACTGGCGAAG	134	
Promoter regions					
<i>pznuD</i>	PA0781	1254	ACTTTCCCGTTCCTCTTCGC	-215	197
		1255	TGGGTCGGACTTTTTTCAGG	-18	
<i>pPA1922</i>	PA1922	1256	GAGCGCCATGATCTGCTCGG	-197	272
		1257	GAAGCAGGTAGAGGAACGGC	75	
<i>pPA2439</i>	PA2439	1344	GTGCTGCACACAGACTCTCG	-140	167
		1345	GTCCAGGTCGACTCTCATCT	17	
<i>pPA2911</i>	PA2911	1258	CATAGCAGGCCGCGTGAAG	-458	229
		1259	TCACCGAAGTGACGCACCGG	-229	
<i>pPA4063</i>	PA4063	1027	GTTTCTCCACAAGCGAATCG	-4	182
		1028	ATGGGCCTGGGCGGCGAACG	-186	
<i>pzrmA</i>	PA4837	1109	GGCTGGGCTGGTCGTCGGA	-141	225
		1110	CCGCGGGACTTTCCGTTTCC	84	
<i>pznuA</i>	PA5498	969	CTCTGCCAGACCAGTTCCAG	-227	214
		970	TGAAAGGTGGTTAGCGGGTA	-14	
<i>prpmE2</i>	PA3600	1107	TCGAGCAGCCGAATGGTCGC	-99	182
		1108	GGTGGAGCCGATCAGGAAGT	83	
<i>pdksA2</i>	PA5536	1105	AGTAAAGGCGGAGGACGCGG	-137	203
		1106	AGAAGTCCTGCTGGGCTTCG	66	
DNA cloning					
Feature		Primer	Sequence 5'-3'	Length	

<i>ΔPA2807</i>	588	GCC <u>gaattc</u> CATGTTTCATCCCTCGTTA CA	489	
	589b	GCC <u>ggtacc</u> ACATCTTTGTCAGCTTGC CG		
	590b	GCC <u>ggtacc</u> CGATCCGTATACACTTG CCG	425	
	591	GCC <u>ggtacc</u> GGTCTTTCTGCAATACC GCG		
<i>ΔcopRS</i>	715	CCC <u>gaattc</u> CTGTCGGGAGCATTACAT CT	491	
	716	CCC <u>ggtacc</u> TCGTTACATTTGCCGGCC AT		
	717	CCC <u>ggtacc</u> AACGCGAAGCCCCCATG ACG	393	
	718	CCC <u>ggtacc</u> GTGCTGGTGGTGGTGCT TAC		
<i>pMMB66EH-PA2807</i>	626	GCC <u>gaattc</u> ATGCTCCCGACAGCCAG CCG	639	
	627	GCC <u>ggtacc</u> TTCACGCCGGCCGTCCG CCG		
<i>pME6001- PA2807::6His</i>	1309	CGC <u>ggtacc</u> TCAGCAGTTTCATGTTC ATC	1115	
	1310	CGC <u>aagctt</u> TCA <b>atgatgatgatgatg</b> GGG CTGCACGGTCAGTTGAC		
<i>pGEX2T-zur</i>	1044	GCG <u>ggtacc</u> ATGTACAAGATTGCGCC CAAGACCC	503	
	1045	GCC <u>gaattc</u> TCAGGCGTCCTTCTGGTC CC		

Restriction sites are underlined (lowercase) and 6His tag is indicated as lowercase in bold