

TABLE S2. Primers used in this study.

Primer	Sequence (5'-3')	Description or reference	Polymerase used for PCR	MgCl ₂ concentration	PCR program
For amplification and sequencing of <i>napA</i> (MPTP_0420 and MPTP_0421) of ATCC 35311 and its corresponding genes of other strains					
MPTP0420-0421F1	GTCACAATGATTCATCTTGC	Used for amplification and sequencing. This primer was also used for preparation of <i>napA</i> probe (see below).	Ex Taq DNA polymerase (Takara)	1.5 mM	95°C 2min - 95°C 20sec, 55°C 10sec, 72°C 1min (30 cycles) - 72°C 2min
MPTP0420-0421R1	TGACTTTTCAAGGGGTGAGA	Used for amplification and sequencing. This primer was also used for preparation of <i>napA</i> probe (see below).			
MPTP0420-0421F2	CAGCAAGATAGGACATTCCA	Used only for sequencing.			
MPTP0420-0421R2	TGGAATGCCTATCTTGCTG	Used only for sequencing.			
For amplification and sequencing of <i>nhpP</i> (MPTP_1078) of ATCC 35311 and its corresponding gene of other strains					
MPTP1078F1	TTAGAAGCTAAATGGGCACAATGT	Used for amplification and sequencing.	Ex Taq DNA polymerase (Takara)	1.5 mM	95°C 2min - 95°C 20sec, 55°C 10sec, 72°C 2min (32 cycles) - 72°C 7min
MPTP1078R1	CGAATGAATGTTAAAGGAGAGGTG	Used for amplification and sequencing.			
MPTP1078F2	TGTGTTGGCTGGACGCTACA	Used only for sequencing.			
MPTP1078F3	GCCGCTGTAGTTGCCGGTGT	Used only for sequencing.			
MPTP1078R2	GATGACCGTCGTATTTCCG	Used only for sequencing.			
MPTP1078R3	TGTGTCCATTCTTGTTTCCAC	Used only for sequencing.			
For amplification and sequencing of <i>ctaM</i> (MPTP_1579) of ATCC 35311 and its corresponding gene of other strains					
MPD5_0470F	AAGACTGCAGCTAAACTGTGGAAAAGGGGA	Used for amplification and sequencing. This primer was also used for construction of pDAT561CtaM (see below). PstI site is underlined.	Ex Taq DNA polymerase (Takara)	1.5 mM	95°C 2min - 95°C 20sec, 55°C 10sec, 72°C 2min (32 cycles) - 72°C 7min
MPD5_0470R	AACTCTGCAGCTAATGAGGATTATCTA	Used for amplification and sequencing. This primer was also used for construction of pDAT561CtaM (see below). PstI site is underlined.			
MPTP1579F2	GAACCAGATACCTTCTGATG	Used only for sequencing.			
MPTP1579F3	AGAAACTCTAGCAAGAGTGG	Used only for sequencing.			
MPTP1579F4	CTGGTGATAATCCAATCACT	Used only for sequencing.			
MPTP1579F5	TTTTGGCTCTACGTCCAAGT	Used only for sequencing.			
MPTP1579R2	ACAAGCGCTTTTCAGGATAG	Used only for sequencing.			
For amplification and sequencing of <i>ctaP</i> (MPTP_1629) of ATCC 35311 and its corresponding gene of other strains					
MPTP1629F5	CATGCTATAGTGAAAGAAGATAGC	Used for amplification and sequencing.	Ex Taq DNA polymerase (Takara)	1.5 mM	95°C 2min - 95°C 20sec, 55°C 10sec, 72°C 2min (30 cycles) - 72°C 5min
MPTP1629R6	CACCCACACTCCTTCATCCT	Used for amplification and sequencing.			
MPTP1629F1	GGGGGCTTTTGACGTATTGG	Used only for sequencing.			
MPTP1629F3	TTGCAGATGGATTACCAGGA	Used only for sequencing.			
MPTP1629F4	GATACAATGACCGATGAAGC	Used only for sequencing.			
MPTP1629R1	CATTACATTCGCACCAATG	Used only for sequencing.			
MPTP1629R3	ACCAACAGTAATTACACGCA	Used only for sequencing.			
MPTP1629R4	TCTACGGATAATTGCATGCT	Used only for sequencing.			
MPTP1629R5	ACTGGAATCATTGCTCCAAC	Used only for sequencing.			
For preparation of <i>napA</i> probe					
MPTP0420-0421F1	GTCACAATGATTCATCTTGC		Ex Taq DNA polymerase (Takara)	2.5 mM	95°C 2min - 95°C 20sec, 55°C 10sec, 72°C 1min (35 cycles) - 72°C 2min
MPTP0420-0421R1	TGACTTTTCAAGGGGTGAGA				
For construction of pMX2					

pMX-F	CAAT <u>CTCGAGG</u> GACATCTGCCAGCTCTCG	For amplification of the replication origin, <i>malX</i> promoter, and multiple cloning sites from pMX1. XhoI site is underlined.	iProof (Bio-Rad)	1.5 mM	98°C 1min - 98°C 20sec, 58°C 10sec, 72°C 3min (30 cycles) - 72°C 5min
pMX-R	TCAC <u>CTCGAGAT</u> CTCGGTGATGACGGTG	For amplification of the replication origin, <i>malX</i> promoter, and multiple cloning sites from pMX1. XhoI site is underlined.			
catF2	CGAT <u>CTCGAGT</u> CACCGAACTAGAGCTTG	For amplification of the <i>cat</i> gene from pSET6s. XhoI site is underlined.	iProof (Bio-Rad)	1.5 mM	98°C 1min - 98°C 20sec, 58°C 10sec, 72°C 3min (30 cycles) - 72°C 5min
catR2	AGT <u>TCTCGAGT</u> TTCCGATAATTCGATGG	For amplification of the <i>cat</i> gene from pSET6s. XhoI site is underlined.			
For preparation of <i>cat</i> probe					
catIF	ATAGCGACGGAGAGTTAGGT				
catIR	CTGACAATTCCTGAATAGAG		Ex Taq DNA polymerase (Takara)	2.5 mM	95°C 2min - 95°C 20sec, 55°C 10sec, 72°C 1min (35 cycles) - 72°C 2min
For identification of <i>M. plutonius</i>					
<i>M. plutonius</i> -specific primer 1	GAAGAGGAGTTAAAAGGCGC	Reference 13			
<i>M. plutonius</i> -specific primer 2	TTATCTCTAAGCGTTCAAAGG	Reference 13	Ex Taq DNA polymerase (Takara)	2.0 mM	95°C 1min - 93°C 1min, 55°C 30sec, 72°C 1min (30 cycles) - 72°C 5min
For construction of pMX2lacZ					
LacZ1	GCAGACGCGTCGACGTCATAT <u>GGATC</u>	A part of BamHI site is underlined.	iProof (Bio-Rad)	1.5 mM	98°C 2min - 98°C 10sec, 55°C 10sec, 72°C 2min (35 cycles) - 72°C 5min
LacZ2.2	GGGA <u>ATTC</u> CGGGAAAAACGGGAAGTAGGCTCC	EcoRI site is underlined.			
For construction of pDAT628NapA					
MPTP0420-0421F3	AGCT <u>CTGCAGT</u> TTATAAAAAGAAAGAGGATG	PstI site is underlined.	iProof (Bio-Rad)	1.5 mM	98°C 1min - 98°C 20sec, 52°C 10sec, 72°C 1min (30 cycles) - 72°C 2min
MPTP0420-0421R3	AATCAAGATTTATTTAGTGG				
For construction of pDAT561CtaP					
MPD5_0425F	AGAT <u>CTGCAGT</u> TATAATAGAAGGAAAATGGGGG	PstI site is underlined.	iProof (Bio-Rad)	1.5 mM	98°C 2min - 98°C 10sec, 55°C 10sec, 72°C 2min (30 cycles) - 72°C 5min
MPD5_0425R	TCTAGGATCCATTTAATCATTTCATCATTGGGT	BamHI site is underlined.			
For construction of pDAT561CtaM					
MPD5_0470F	AAGAC <u>CTGCAG</u> CTAAACTGTGAAAAGGGGA	PstI site is underlined.	iProof (Bio-Rad)	1.5 mM	98°C 2min - 98°C 10sec, 55°C 10sec, 72°C 2min (30 cycles) - 72°C 5min
MPD5_0470R	AACT <u>CTGCAG</u> CTAATGAGGATTATCTA	PstI site is underlined.			
For construction of pDAT561NhaP					
MPD5_0870F	GAAAC <u>CTGCAG</u> ACATGTATTGGTAAGAAAGT	PstI site is underlined.	iProof (Bio-Rad)	1.5 mM	98°C 2min - 98°C 10sec, 52°C 10sec, 72°C 2min (35 cycles) - 72°C 5min
MPD5_0870R	TTCT <u>CTGCAG</u> TCCCTTTTCCTTCTATCCAT	PstI site is underlined.			