

SUPPLEMENTARY INFORMATION

Table S1. Genomic coordinates of the 23 deletions introduced in *Pseudomonas putida* KT2440 to construct the naked strain EM371.

Deletion ^a	Gene or gene cluster	Number of genes targeted	Coordinates deleted (bp)		Extension of the deletion (bp)
			Start	End	
1	PP1887-PP1891	5	2,124,627	2,133,601	8,975
2	PP2357-PP2363	7	2,690,658	2,697,068	6,411
3	PP4986-PP4992	7	5,680,657	5,690,333	9,677
4	PP5080-PP5083	4	5,801,586	5,805,199	3,614
5	PP0607-PP0611	5	715,009	717,276	2,268
6	PP0803-PP0806	4	921,841	945,619	23,779
7	PP3472-PP3484	13	3,938,975	3,948,636	9,662
8	PP3396-PP3399	4	3,846,908	3,852,451	5,544
9	PP1449-PP1450	2	1,652,238	1,658,489	6,252
10	PP2629-PP2638	10	3,009,133	3,022,978	13,846
11	PP1277-PP1288	12	1,458,138	1,474,218	16,081
12	PP1427-PP1430	4	1,627,269	1,631,062	3,794
13	PP1993	1	2,259,410	2,262,145	2,736
14	PP5093	1	5,816,934	5,817,944	1,012
15	PP0164-PP0168	5	187,239	220,542	33,304
16	PP5404-PP5407	4	6,161,914	6,168,509	6,596
17	PP2891-PP2893	3	3,288,245	3,294,388	6,144
18	PP1131	1	1,294,518	1,294,982	465
19	PP4329-PP4397	69	4,919,154	4,988,328	69,175
20 ^b	PP1532-PP1584	53	1,738,016	1,777,398	39,383
21	PP3132-PP3142	11	3,547,053	3,559,120	12,068
22	PP1804	1	2,027,208	2,028,212	1005
23	PP1879-PP1882	4	2,103,366	2,114,282	10,917

^a The deletion number identifies the order in which the specific gene or gene cluster was deleted. The information regarding genomic coordinates of each locus was derived from the reported sequence of *P. putida* KT2440 (GenBank #: AE015451) ¹.

^b Spontaneous excision of prophage 4 (PP1532-PP1584), that occurred sometime after deletion #18 ², during the construction process.

Table S2. Oligonucleotides used in this study.

Name	Sequence (5' → 3')^a	Usage
TS1(1887)EcoRI-F	CG GAATTC CGGTCTTTTGGCAATTGTCAAT	Deletion of PP1887-PP1891
TS1(1887)-R	TTGGCTCCATCAAAGAATCGAG	Deletion of PP1887-PP1891
TS2(1891)-F	CTCGATTCTTTGATGGAGCCAAGACATAACCTG ATTGGGTAAATGGG	Deletion of PP1887-PP1891
TS2(1891)XmaI-R	TCCC CCCGGG GGCCAGCGGCTGCACGAGGCC GAAC	Deletion of PP1887-PP1891
TS1(2357)-SacI	ATCC GAGCTC CTGCGTAGCTGGGGTAGCCGG	Deletion of PP2357-PP2363
TS1(2357)-R	TTCCGGGGGTATTGACCGCCGTAAAGCCATTTTT TTTGTATTAGCG	Deletion of PP2357-PP2363
TS2(2363)-F	ACGGCGGTCAATACCCCCGAA	Deletion of PP2357-PP2363
TS2(2363)BamHI-R	CG GGATCC CAGCGGCCGCAGTGTCCAG	Deletion of PP2357-PP2363
TS1(4985)-EcoRI-F	CG GAATTC ATTACCGCTGCATGTGCA	Deletion of PP4896-PP4942
TS1(4985)-R	CAATCCTACTGGTAGGCGTCTTTAAAAGTCGCC CCACAACCTG	Deletion of PP4896-PP4942
TS2(4993)-F	AGACGCCTACCAGTAGGATTG	Deletion of PP4896-PP4942
TS2(4993)BamHI-R	CG GGATCC TGCGCATCAGGATCACGTCCAG	Deletion of PP4896-PP4942
TS1(5080)XmaI-F	TCCC CCCGGG AGCGCTCGAGAATATCGATCAC C	Deletion of PP5080-PP5083
TS1(5080)-R	GTAACAGACAGCAAAGGAGTCGCGTTCTGTGC GAAATTTGATACTTG	Deletion of PP5080-PP5083

TS2(5083)-F	CGCGACTCCTTTGCTGTCTGTTAC	Deletion of PP5080-PP5083
TS2(5083)BamHI-R	CGGGATCC GGGGTCGACGCCGTAGTGGTTGAG	Deletion of PP5080-PP5083
TS1(0607)EcoRI-F	CGGAATTC CAGCCGCGTCATCGATGCGCTG	Deletion of PP0607-PP0611
TS1(0607)-R	TGCACCGGGCATCATTGAACCTCGCGGTCATTG CAGGAGCGGTC	Deletion of PP0607-PP0611
TS2(0611)-F	AGGTTCAATGATGCCCGGTGCA	Deletion of PP0607-PP0611
TS2(0611)BamHI-R	CGGGATCC GGGTTGCGCACATTGGCCACACC	Deletion of PP0607-PP0611
TS1(0803)EcoRI-F	CGGAATTC CCAGCACCTGCACCAGGGTGTG	Deletion of PP0803-PP0806
TS1(0803)-R	CGGATATCAGCAGGGAGCATCCTCCAGGCATT CCTGGGTTCTGTG	Deletion of PP0803-PP0806
TS2(0806)-F	GGATGCTCCCTGCTGATATCCG	Deletion of PP0803-PP0806
TS2(0806)XbaI-R	GCTCTAG AGATCGGCCGCTCGGCACTCAAGGC	Deletion of PP0803-PP0806
TS1(3472)EcoRI-F	CGGAATTC TTTCATTTGCGCTAGAAGCAAAGATT	Deletion of PP3472-PP3484
TS1(3472)-R	GGCAGTATTTGGGAGTCGACCTTGTTGACTGTT AGGGAAGCTCTGATC	Deletion of PP3472-PP3484
TS2(3484)-F	CAAGGTCGACTCCCAAATACTGCC	Deletion of PP3472-PP3484
TS2(3484)-BamHI-R	CGGGATCC CTTCGACAGGGCGCAGTACACTGA A	Deletion of PP3472-PP3484
TS1(3396)EcoRI-F	CGGAATTC GTATTCGCTCAGCTCGCTGTCCAG	Deletion of PP3396-PP3399

TS1(3396)-R	CACCGCGGTTCAAGGGGGAGCGGTGAGTCAAT TCCTCCTGCAAACGGGC	Deletion of PP3396- PP3399
TS2(3399)-F	ACCGCTCCCCCTTGAACCGCGGTG	Deletion of PP3396- PP3399
TS2(3399)-BamHI-R	CGGGATCC GTTGACCAGGCAGGCATCCGGCAC G	Deletion of PP3396- PP3399
TS1(1449)EcoRI-F	CGGAATTC GGCTACTTCACCGTGCTGACCAATA C	Deletion of PP1449- PP1450
TS1(1449)-R	CGAGTACGAAAACCGTACATCATGACGCCATCG CGGCCCTGGCCATTTG	Deletion of PP1449- PP1450
TS2(1450)-F	ATGATGTACGGTTTTTCGTACTION	Deletion of PP1449- PP1450
TS2(1450)BamHI-R	CGGGATCC GCTGAAAACCTACCGCATCTCGCT	Deletion of PP1449- PP1450
TS1(2629)EcoRI-F	CGGAATTC TACCTTGGTAGTGACCCGGCCAG A	Deletion of PP2629- PP2638
TS1(2629)-R	CCCTTGCAACGCAGCGATTGCCGTTATACAGCA TCAAGGCAGAATGAAATC	Deletion of PP2629- PP2638
TS2(2638)-F	CGGCAATCGCTGCGTTGCAAGGG	Deletion of PP2629- PP2638
TS2(2638)BamHI-R	CGGGATCCA AGGCCAGCAACTCACGCAGGTTG	Deletion of PP2629- PP2638
TS1(1277)EcoRI-F	CGGAATTC GCACCGGTGAGTCACTGTGCCAG A	Deletion of PP1277- PP1288
TS1(1277)-R	CGTGATAAACACATGAGGTGATAGCGATGCTGA CTCGCCCCTGGGCTGAC	Deletion of PP1277- PP1288
TS2(1288)-F	CGCTATCACCTCATGTGTTTATCACG	Deletion of PP1277- PP1288
TS2(1288)XmaI-R	TCCCC CCGGG GATATCTCGCAACAGTTACGTCCT TTA	Deletion of PP1277- PP1288

TS1(1427)EcoRI-F	CG GAATTC TGTTGTCCAGCACTGCAGCGACGC	Deletion of PP1427-PP1430
TS1(1427)-R	CCCTTTCGCCTTGC GAAACT GCGAACACTCCTCAGTGA ACTCGAAGG	Deletion of PP1427-PP1430
TS2(1430)-F	GCAGTTTCGCAAGGCGAAAGGG	Deletion of PP1427-PP1430
TS2(1430)BamHI-R	CG GGATCC TGGGGCAGGTCCATCTTGTT CAGG	Deletion of PP1427-PP1430
TS1(1993)EcoRI-F	CG GAATTC GCGCAAGGCCGTGAAGCGGTCAGC	Deletion of PP1993
TS1(1993)-R	CCAAGAGGCCTGACCTGCTTGCAGACCTCTTCCCTTGTATGAATCGTC	Deletion of PP1993
TS2(1993)-F	TGCAAGCAGGTCAGGCCTCTTGG	Deletion of PP1993
TS2(1993)BamHI-R	CG GGATCC CGAATCGGGTCGTTGTAGATGAC	Deletion of PP1993
TS1(5093)EcoRI-F	CG GAATTC AGGCAATGCCGCCAGCAGCCGCGGT	Deletion of PP5093
TS1(5093)-R	GGCATTCTACCTGCTTGAAGGCCTTACCTGCAAAGGCCCTTTCGCG	Deletion of PP5093
TS2(5093)-F	AGGCCTTCAAGCAGGTAGAATGCC	Deletion of PP5093
TS2(5093)BamHI-R	CG GGATCC CAACTTGCGCAGGCTGGCGAAGGC	Deletion of PP5093
TS1(0164)EcoRI-F	CG GAATTC GGATATACCCGCGGGCGCTGGCGAT	Deletion of PP0614-PP0618
TS1(0164)R	CGCTGTGCGGCCCGGTGGTCTGGGCAAAGCCGACATAGCGCACTACGG	Deletion of PP0614-PP0618
TS2(0168)-F	CAGACCACCGGGGCCGCACAGCG	Deletion of PP0614-PP0618
TS2(0168)XmaI-R	TCCCC CCGGG CAAGGCGGCTGACATTTTTCACTC	Deletion of PP0614-PP0618

TS1(2891)EcoRI-F	CGGAATTC ACTGGCTTTCCAGCAGTGCCTG	Deletion of PP2891-PP2893
TS1(2891)R	TTGATGGCCGCCACGCTGCGGGCTCAGTGCCT TGGAGGTGCCCCAG	Deletion of PP2891-PP2893
TS2(2893)F	GCCCGCAGCGTGGCGGCCATCAA	Deletion of PP2891-PP2893
TS2(2893)BamHI-R	CGGGATCC ATTGACCTGCGTGAAATTACC	Deletion of PP2891-PP2893
TS1(1131)EcoRI-F	CGGAATTC ACTGCCCTGAGCATTGGGG	Deletion of PP1131
TS1(1131)R	GGGTTTTTTATTACTGCACTACGGGGGTAAAGT CTCCATAAGTCAGG	Deletion of PP1131
TS2(1131)F	CCGTAGTGCAGTAATAAAAAACCC	Deletion of PP1131
TS2(1131)BamHI-R	CGGGATCC TGCTGGTGCTGGTGGCGATGAA	Deletion of PP1131
TS1(3132)EcoRI-F	CGGAATTC GGTACAGCGCCTGGCGCAGCGT	Deletion of PP3132-PP3142
TS1(3132)R	GCTTGAAGCAGGAGCGCTTCGCGACTTCAATCT CTGACTGATTGG	Deletion of PP3132-PP3142
TS2(3142)F	GCGAAGCGCTCCTGCTTCAAGC	Deletion of PP3132-PP3142
TS2(3142)BamHI-R	CGGGATCC CGAGTTGCGCCTGGTGGCTGAG	Deletion of PP3132-PP3142
TS1(1804)EcoRI-F	CGGAATTC CAAGCACGAAGCGGAGCAGGGG	Deletion of PP1804
TS1(1804)R	GATGCCTTGCGTGCTTGGCCATCGGGCGGCGT GCACCCAGAAAAG	Deletion of PP1804
TS2(1804)F	GATGGCCAAGCACGCAAGGCATC	Deletion of PP1804
TS2(1804)BamHI-R	CGGGATCC GAAATACTGGCGCATGATCAGGCG	Deletion of PP1804
TS1(1879)EcoRI-F	CGGAATTC AACCCAGGCTGAATCGTGAGGTT	Deletion of PP1879-PP1882

TS1(1879)R	ACAAGCAGAGTGAGAACGTTCAATCCCGATGCA AAAAAAAAACGCCACC	Deletion of PP1879- PP1882
TS2(1882)F	AATGAACGTTCTCACTCTGCTTGT	Deletion of PP1879- PP1882
TS2(1882)Xmal-R	TCCC CCCGGGA ACGAAGAAGAAACGACGCTTG GAC	Deletion of PP1879- PP1882
1889F	GGTAGTTGTCCGCTTCGGTA	Diagnose deletion of PP1887-PP1891
1889R	TATCGCTATTCGACCCAAGG	Diagnose deletion of PP1887-PP1891
PP2362F	GGACATGCAACTGAGCAAAA	Diagnose deletion of PP2357-PP2363
PP2362R	TCCACACCAGAGAACCACTG	Diagnose deletion of PP2357-PP2363
4989F	GGCAACATCTTCAGCCTTTC	Diagnose deletion of PP4986-PP4992
4989R	GATCGACTCGACCATGTCAC	Diagnose deletion of PP4986-PP4992
5081F	TTAGTGGTGATTGCCGAACA	Diagnose deletion of PP5080-PP5083
5081R	GCTTGGTGAGGGTGATGAAC	Diagnose deletion of PP5080-PP5083
0609F	CCAACCTTGTTTTGGTTTGG	Diagnose deletion of PP0607-PP0611
0609R	ATCGTCCTGGAGCTGGTAGA	Diagnose deletion of PP0607-PP0611
0805F	GACACAGCCTATGCCTGGAT	Diagnose deletion of PP0803-PP0806
0805R	CCCCTTGGTAGATGGGAACT	Diagnose deletion of PP0803-PP0806

3478F	ATGAAAGAGGGCCAGTACGA	Diagnose deletion of PP3472-PP3484
3478R	AGATGGTGGCTTTCATGTCC	Diagnose deletion of PP3472-PP3484
3397F	TCCGATGTGGTACAAGGACA	Diagnose deletion of PP3396-PP3399
3397R	GTGACCGCTTCGGTGATATT	Diagnose deletion of PP3396-PP3399
1450F	GTCGAAGGCTTTGTCAAAC	Diagnose deletion of PP1449-PP1450
1450R	ACAATACCCGCTCGACACTC	Diagnose deletion of PP1449-PP1450
2632F	GTTGCTGGTGGGTTACCTGT	Diagnose deletion of PP2629-PP2638
2632R	GGTAATGTCGCCGATGAAGT	Diagnose deletion of PP2629-PP2638
1281F	AAGTACGAAGGCTCGGACAA	Diagnose deletion of PP1277-PP1288
1281R	GCCGACCTTGATTTCCTTCA	Diagnose deletion of PP1277-PP1288
1429F	GCTGAAACTGATGGGTTGGT	Diagnose deletion of PP1427-PP1430
1429R	CACTTTGCCCTTGGGTGTAT	Diagnose deletion of PP1427-PP1430
1993F	TGAAGTCGGCACAGAATCAG	Diagnose deletion of PP1993
1993R	CCAACCTTCAGCTGGTTGAT	Diagnose deletion of PP1993
0166F	GATATGGGGCAGTTCAAGGA	Diagnose deletion of PP0164-PP0168

0166R	AATTCGTCCTGCAGTTGCT	Diagnose deletion of PP0164-PP0168
5406F	CATCTCCTTTCCAACCCAGA	Diagnose deletion of Tn7
5406R	CGTGCATACCAAACAACAGG	Diagnose deletion of Tn7
2891F	GCAGGCACTCGGCTACTATC	Diagnose deletion of PP29891-PP2893
2891R	GTGGTTTACGGGTTTCCAGA	Diagnose deletion of PP29891-PP2893
1131F	GTAATCCGCTTTGCTGGTG	Diagnose deletion of PP1131
1131R	CGGAAGATTTCGTTCTCCTG	Diagnose deletion of PP1131
4335F	TACCGAGGAACACGAAAACC	Diagnose deletion of the flagellum
4335R	TTGGCAGGTTGTCAGTGAAG	Diagnose deletion of the flagellum
1565F	CTGACCGAGGATCAGATGGT	Diagnose deletion of the prophage 4
1565R	CCGGGTTGAACTTCACGTAG	Diagnose deletion of the prophage 4
3135F	CTCAATACCGATGCCTTCGT	Diagnose deletion of PP31321-PP3142
3135R	TGATGCTTGCGGAAGTACAG	Diagnose deletion of PP31321-PP3142
1880F	GAGCCACAATCACCAGTTT	Diagnose deletion of PP1879-PP1882
1880R	CACCCAGTTCAGTGTCATGG	Diagnose deletion of PP1879-PP1882
1804F	CGGCAGTGCTGACCAGTGTGTTG	Diagnose deletion of PP1804

1804R	CACCCGAAAGTATTAACCACC	Diagnose deletion of PP1804
5093F	GATCAACCCTCGCTCCCTCAGC	Diagnose deletion of PP5093
5093R	CCTGGCAACGCTGCTCGACCAG	Diagnose deletion of PP5093
endA1-F	CGCTTTTCGCAGCAGCCTGCCTG	Diagnose presence of <i>endA-1</i>
endA1-R	GAAGTAGGTGCGGGCGATCATGCC	Diagnose presence of <i>endA-1</i>
2357-2363-junction-F	GATACGCTACGCAGCGCAGCAA	Sequence boundaries of PP2353-PP2363 deletion
2357-2363-junction-R	CAGCAGCGCTGGTTCGTGTG	Sequence boundaries of PP2353-PP2363 deletion
Tn7-junction-F	CCGACCTGGGAAGGTCGACTTT	Sequence boundaries of Tn7 deletion
Tn7-junction-R	GATGACTTCCTAGGCCATTACTTA	Sequence boundaries of Tn7 deletion
Junction Flagella-F	CGCCAAGCCTCGCTACCCGGCCTGCT	Sequence boundaries of flagella deletion
Junction Flagella-R	CAGTTGATTCTGGTGGTGCACCCG	Sequence boundaries of flagella deletion
curli1-junction-F	CTGCGGTCATCCCAATTAATG	Sequence boundaries of curli operon 1 deletion
curli1-junction-R	GGCAGGAAGCGCAACGCCAAG	Sequence boundaries of curli operon 1 deletion
curli2-junction-F	GCCACACCACGAACGACATCGG	Sequence boundaries of curli operon 2 deletion
curli2-junction-R	CAGACCAGCACATCGCCGTGGC	Sequence boundaries of curli operon 2 deletion

4986-4992 junction-F	GCACGACCTGCCCCGAGGCCAG	Sequence boundaries of PP4986-PP4992 deletion
4986-4992 junction-R	GGGTCGGGGTGGTGCATTGCG	Sequence boundaries of PP4986-PP4992 deletion
1887-1891 junction-F	ATACCTCGATGGTGCGCTGGGA	Sequence boundaries of PP1887-PP1891 deletion
1887-1891 junction-R	GCAACGGGCCAGTGACCTGCTC	Sequence boundaries of PP1887-PP1891 deletion
2629-2638 junction-F	CAGCACGACCCAGGCAATGAAG	Sequence boundaries of PP2629-PP2638 deletion
2629-2638 junction-R	CGTTCGATGCGTACGCCTGTGC	Sequence boundaries of PP2629-PP2638 deletion
5093-junction-F	CTATTCATAAGAGCTTCATCTATG	Sequence boundaries of PP5093 deletion
5093-junction-R	GCTCATGTCAGGTCCTTGTGGAAA	Sequence boundaries of PP5093 deletion
1993-junction-F	TGCCGGAAGCCAACGCCGAACG	Sequence boundaries of PP1993 deletion
1993-junction-R	TGGCCATGGCGGGTAACACGCAGG	Sequence boundaries of PP1993 deletion
1427-1430 junction-F	GTGAGGTGGAAGCTCGAAGCCGC	Sequence boundaries of PP1427-PP1430 deletion
1427-1430 junction-R	CAGGTAATTGTGAACCAAGAGT	Sequence boundaries of PP1427-PP1430 deletion
1277-1288 junction-F	GCCCAGGCCACACACAGCCGCCAG	Sequence boundaries of PP1277-PP1288 deletion
1277-1288 junction-R	CGCGAAGAGGTCAGCCGCCGTGAT	Sequence boundaries of PP1277-PP1288 deletion
5080-5083 junction-F	GATCGGGTAGCTACGCTCGCCCA	Sequence boundaries of PP5080-PP5083 deletion

5080-5083 junction-R	CAGCTCACGCTCGATTTGCAGGGC	Sequence boundaries of PP5080-PP5083 deletion
1804-junction-F	TGGCCGAGTTCCGTCGGGTGAAT	Sequence boundaries of PP1804 deletion
1804-junction-R	GTCATCATCAATGAACGCCACCG	Sequence boundaries of PP1804 deletion
0607-0611 junction-F	GAAGTCGAAGGCACCATGGGCCA	Sequence boundaries of PP0607-PP0611 deletion
0607-0611 junction-R	TCCAGGCGCCTGCGCTGAGCACA	Sequence boundaries of PP0607-PP0611 deletion
0803-0806 junction-F	GTGTGCACCGACTGCTGCAAGGCC	Sequence boundaries of PP0803-PP0806 deletion
0803-0806 junction-R	TGCACGTGCCACCTTTGCGCGA	Sequence boundaries of PP0803-PP0806 deletion
1449-1450 junction-F	AGCAGCTGTACGTGAAGCTGCAG	Sequence boundaries of PP1449-PP1450 deletion
1449-1450 junction-R	GGCGGCCTTCACCGAAACCATC	Sequence boundaries of PP1449-PP1450 deletion
0164-0168 junction-F	CAGGCCCATGGACGAAAGATGG	Sequence boundaries of PP0164-PP0168 deletion
0164-0168 junction-R	CACATGGTGGTCGAGGTGGGCGC	Sequence boundaries of PP0164-PP0168 deletion
2891-2893 junction-F	GAAGCTGTCTACCAACCCCCAGC	Sequence boundaries of PP2891-PP2893 deletion
2891-2893 junction-R	CGAAATATCCCAGGCGGACAC	Sequence boundaries of PP2891-PP2893 deletion
1131-junction-F	GCCGGGTGCAGAAGGTCACGG	Sequence boundaries of PP1131 deletion
1131-junction-R	CGGCGTCTGGCCCTGCTCGGC	Sequence boundaries of PP1131 deletion

3132-3142 junction-F	CGTCGACCAGGGCGCTGTACAA	Sequence boundaries of PP3132-PP3142 deletion
3132-3142 junction-R	CGCCGAGGGGCAACGCCTGGC	Sequence boundaries of PP3132-PP3142 deletion
1879-1882 junction-F	TCACGGCGGTAACAGGGGTTTCG	Sequence boundaries of PP1879-PP1882 deletion
1879-1882 junction-R	CCA ACTCAGGAAA CCTTGTC	Sequence boundaries of PP1879-PP1882 deletion
3104-3110 Junction-F	GATGGAAGAGCTGACTTACG	Sequence boundaries of PP3104-PP3110 deletion
3104-3110 Junction-R	CGAGCTCCAGAAAGAAATC	Sequence boundaries of PP3104-PP3110 deletion
PP1532-XmaF	TCCC CCCGGG GACCAGGCGGTGCGACAGCA	Deletion of prophage 4
PP1586-BamR	CG GGATC CCCAACACGAAGCTGAAGCTGGC	Deletion of prophage 4
pEMG-F1	CCATTCAGGCTGCGCAACTGTTG	To sequence TS1-TS2 in pEMG
pEMG-R1	CTTTACACTTTATGCTTCCGGC	To sequence TS1-TS2 in pEMG
pSW-F	GGACGCTTCGCTGAAAATA	Diagnose curation of the plasmid pSW-I
pSW-R	AACGTCGTGACTGGGAAAAC	Diagnose curation of the plasmid pSW-I

^a Recognition site for the restriction enzymes specified are indicated in boldface in the DNA sequence, and complementary sequences used in splicing by overlap extension (SOEing) PCR amplifications are shown in italics.

TABLE S3. List of surface-associated proteins identified by activated magnetic nanoparticles.

TABLE S4. Bacterial strains and plasmids used in this work.

Strain or plasmid	Relevant characteristics ^a	Reference or source
<i>Escherichia coli</i>		
DH5 α λ <i>pir</i>	Cloning host; F ⁻ λ ⁻ <i>endA1 glnX44(AS) thiE1 recA1 relA1 spoT1 gyrA96(Nal^R) rfbC1 deoR nupG Φ80(lacZΔM15) Δ(argF-lac)U169 hsdR17(r_K⁻ m_K⁺) λ<i>pir</i> lysogen</i>	3
HB101	Helper strain; F ⁻ λ ⁻ <i>hsdS20(r_B⁻ m_B⁻) recA13 leuB6(Am) araC14 Δ(gpt-proA)62 lacY1 galK2(Oc) xyl-5 mtl-1 thiE1 rpsL20(Sm^R) glnX44(AS)</i>	4
<i>Pseudomonas putida</i>		
KT2440	Wild-type strain; mt-2 derivative cured of the TOL plasmid pWW0	5
EM371	KT2440 derivative; Δ PP1887-PP1891 Δ PP2357-PP2363 Δ PP4986-PP4992 Δ PP5080-5083 Δ PP0607-0611 Δ PP0803-PP0806 Δ PP3472-3484 Δ PP3396-PP3399 Δ PP1449-PP1450 Δ PP2629-PP2638 Δ PP1277-PP1288 Δ PP1427-PP1430 Δ PP1993 Δ PP5093 Δ PP0164-PP0168 Δ PP5404-PP5407 Δ PP2891-PP2893 Δ PP1131 Δ PP4329-PP4397 Δ prophage4 Δ PP3132-PP3142 Δ PP1804 Δ PP1879-PP1882	This work
KT2440-GFP	KT2440 GFP derivative	6
KT2440-mCherry	KT2440 mCherry derivative	2
EM371-GFP	EM371 GFP derivative	This work
EM371-mCherry	EM371 mCherry derivative	This work

Plasmid	Relevant characteristics	Reference or Source
pRK600	Helper plasmid used for conjugation; <i>oriV</i> (ColE1), RK2(<i>mob⁺ tra⁺</i>); Cm ^R	⁷
pEMG	Plasmid used for deletions; <i>oriV</i> (R6K), <i>lacZα</i> fragment with two flanking I-SceI recognition sites; Km ^R	⁸
pSW-I	Helper plasmid used for deletions; <i>oriV</i> (RK2), <i>xyIS</i> , <i>Pm</i> →I-SceI; Ap ^R	⁹
pEMG-1887	pEMG bearing a 1.6-kb TS1-TS2 EcoRI-XmaI insert for deleting the PP1887-PP1891 operon	²
pEMG-R1	pEMG bearing a 1.6-kb TS1-TS2 SacI-BamHI insert for deleting the PP2357-PP2363 operon	⁸
pEMG-4986	pEMG bearing a 1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP4986-PP4992 operon	¹⁰
pEMG-5080	pEMG bearing a 1-kb TS1-TS2 XmaI-BamHI insert for deleting the PP5080-PP5083 operon	This work
pEMG-0607	pEMG bearing a 1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP0607-PP0611 operon	This work
pEMG-0803	pEMG bearing a 1-kb TS1-TS2 EcoRI-XbaI insert for deleting the PP0803-PP0806 operon	This work
pEMG-3472	pEMG bearing a 1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP3472-PP3484 operon	This work
pEMG-298	pEMG bearing a 1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP3396-PP3399 operon	²
pEMG-1449	pEMG bearing a 1.1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP1449-PP1450 operon	This work
pEMG-286	pEMG bearing a 1.2-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP2629-PP2638 operon	²
pEMG-1277	pEMG bearing a 1.1-kb TS1-TS2 EcoRI-XmaI insert for deleting the PP1277-PP1288 operon	This work
pEMG-1427	pEMG bearing a 1.2-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP1427-PP1430 operon	This work

Plasmid	Relevant characteristics	Reference or source
pEMG-1993	pEMG bearing a 1.1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP1993 gene	This work
pEMG-5093	pEMG bearing a 1.1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP5093 gene	This work
pEMG-0164	pEMG bearing a 1.4-kb TS1-TS2 EcoRI-XmaI insert for deleting the PP0164-PP0168 operon	This work
pEMG-Tn7	pEMG bearing a 1.6-kb TS1-TS2 EcoRI-XmaI insert for deleting the PP5404-PP5407 operon	¹¹
pEMG-2891	pEMG bearing a 1.1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP2891-PP2893 operon	This work
pEMG-1131	pEMG bearing a 1.2-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP1131 gene	This work
pEMG-flagella	pEMG bearing a 1.5-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP4329-PP4397 flagellar operon	¹²
pEMG-3132	pEMG bearing a 1.2-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP3132-PP3142 operon	This work
pEMG-1804	pEMG bearing a 1-kb TS1-TS2 EcoRI-BamHI insert for deleting the PP1804 gene	This work
pEMG-1879	pEMG bearing a 1-kb TS1-TS2 EcoRI-XmaI insert for deleting the PP1879-PP1882 operon	This work
pSEVA238	Expression vector; <i>oriV</i> (pBBR1); <i>xyIS-Pm</i>	¹³
pSEVA238-AT-Jun	Expression vector; <i>oriV</i> (pBBR1); <i>xyIS-Pm</i> → <i>Jun-igAβ</i> ; Km ^R	This work
pSEVA238-AT-Fos	Expression vector; <i>oriV</i> (pBBR1); <i>xyIS-Pm</i> → <i>Fos-igAβ</i> ; Km ^R	This work

Plasmid	Relevant characteristics	Reference or source
pSEVA238-trx-G6V _{HH}	Expression vector; <i>oriV</i> (pBBR1); <i>xyIS-Pm</i> → <i>trx-G6V_{HH}</i> ; Km ^R	This work
pME9407	Ap ^R , Gm ^R , <i>oriV</i> (pUC19), mini-Tn7, P _{<i>tac</i>} → <i>mCherry</i>	14
pBK-miniTn7- <i>gfp2</i>	Ap ^R , Cm ^R , Gm ^R , <i>oriV</i> (pUC19), <i>mob</i> ⁺ , mini-Tn7, P _{A1/04/03} → <i>gfp2</i>	15
pUX-BF13	Ap ^R ; <i>oriR6K</i> , <i>mob</i> ⁺ , provides the Tn7 transposition function <i>in trans</i>	16
pSEVA2513	Km ^R , <i>oriV</i> (RSF1010), P _{EM7}	17
pSEVA2513- <i>lacZ</i>	Km ^R , <i>oriV</i> (RSF1010), P _{EM7} → <i>lacZ</i>	This work

^a Antibiotic markers: Ap, ampicillin; Cm, chloramphenicol; Km, kanamycin; Nal, nalidixic acid; Sm, streptomycin.

^b Plasmid pEMG-0164 contain a deletion of a thymidine within the TS1-TS2. Since this T is located within an intergenic region between PP0163 and PP0164 (genome coordinate: 187,126) we decided to maintain it. Therefore, the naked strain contains that deletion as well.

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