

Table S1.

Oligonucleotides used in this study

Primer	Sequence (5' – 3')*
For construction of large-deletion mutants	
sav68-up-Fw	ATCATGAAGCTTATCCTCGTCCGGCTGCCCTGGTGGTGGCAG
sav68-up-Re	CCACTAGTGATATCGACGGTCTCCACCAGTGATGCGGACACACG
sav71-dw Fw	GCACTAGTTGGGCACTGTGGAGCGACGTGAGCCGGTG
sav71-dw-Re	ATCAGTAAGCTTTACACCAGACGCCGGTTCACGTTCCCCGCC
sav432-up-Fw	GAATTCAAGCTTCCCCCTGTCTCCGCACCCGGCATCAGGAGGA
sav434-up-Re	GGACTAGTGGTGGTGACCAGGTACCTGTACAGGAAGCGCTCGCC
sav434-dw-Fw	GAATTCAAGCTTCCCCCTGTCTCCGCACCCGGCATCAGGAGGA
sav434-dw-Re	TAATTCAAGCTTCTGAGGTCCGCAGGCGGGGCGGAGGTCCG
sav845-up-Fw	ATGCAAAGCTTACGACGGAAGGAGCTGACCGCATG
sav845-up-Re	GGACTAGTGTAATAGGGGTCGTCCACCAGGTCTCGGC
sav845-dw-Fw	GCACTAGTCGAGCTGGAAGGAGGACACCCGGCGGCATGGAC
sav845-dw-Re	CTGTCCAAGCTTACTGTTGCTCCCGAACGGCAGGTCCC
sav1007-up-Fw	GCATTCAAGCTTATGCTTTCGCACTCCATCGAGCAC
sav1007-up-Re	GGACTAGTGGTGATTGTCATCGACAGTTTCACCGTG
sav1007-dw-Fw	CGACTAGTTCGAGCCGACCTGGCTGACCACCCAGC
sav1007-dw-Re	GTGCAGAAGCTTGGCGCGGCTGGTGTAGATCCAGTTG
sav1286-up-Fw	CACTTCAAGCTTCCCTCCGGCATTTCGATGTGCCGCC
sav1286-up-Re	GGACTAGTGATCATGGTCTTGTCGCCGGGCGCGGCTC
sav1286-dw-Fw	CGACTAGTCGACGCGCTCAGTGACTCGTTCGCCGC
sav1286-dw-Re	GAATTCAAGCTTACCTTCGGGCCCCCGGACACCTGG
wo-mutloxP-SpeI-Fw	GCACTAGTGCTCATTTAAATCCGTTGGATACACCAAG
wo-mutloxP-SpeI-Re	GGACTAGTTTAGACATTATTTGCCGGACTACCTTGGTGATCTCGCTTTCACGTAG
mutloxP-SpeI-Fw	GGACTAGTGAGCGACTCGAGTACCGTTCGTATAGCATACATTACGAAGTTATACGG
mutloxP-SpeI-Re	CTCGAGACTAGTCTGGTACCGAGCGAACGCGTT
sav71-test-Fw	GGTCTCGGTCCTGACGGGGATGTCCACCC
sav71-test-Re	GACGTGTCGCTGAGCCGGTGGAAGGTGAC
sav434-test-Fw	TTCGCCCGCGCTCACTCCCCGTA CTACC
sav434-test-Re	GGCTCTCGTTGCAGCCGTAGGTGTTGACCAC
sav1286-test-Fw	GACGAGGAGCTGCTGCGTCTGTGGG
sav1286 test-Re	GCGAGACCAGCACGATGCCGACGAG
sav845 test-Fw	GCTGCGACAGTGAAGGACGATCAGTGA

sav845 test- Rw	GTCGGCGGAGAAGAACAAGCTGAC
For construction of <i>ptxA</i> mutant and <i>ptxA</i>-complemented strain	
<i>ptxA</i> -up-Fw	CGATCCA <u>AGCTT</u> AACGACTGCGTGTGCAGGTCGCCGCG
<i>ptxA</i> -up-Re	G <u>CACTAGT</u> CTGGAGGGCGCAGCCGCACACCTCATGGAG
<i>ptxA</i> -dw-Re	G <u>GACTAGT</u> GAAACATGAACACGACGGGGAGGGAATCGGTG
<i>ptxA</i> -dw-Fw	CAATT <u>CAAGCTT</u> GCTCACCGACCGGCAGGGCCTCGACC
<i>ptzA</i> test-Fw	CAGTGTGTACGTCCAGACGGTCAGCG
<i>ptzA</i> test-Re	GCTCGAACTCAAGGCCGTGGAGTCG
<i>hph</i> -Fw	C <u>GACTAGT</u> CAGTGAGTTCGAGCGACTCGAGTACCGTTC
<i>hph</i> -Re	CTCGAG <u>ACTAGT</u> CTGGTACCGAGCGAACGCGTT
<i>ptzA</i> -Fw	GCATCTCCTCGCGGGACTGCCTGCG
<i>ptzA</i> -Re	GGCAGGTTGCCGCGTGCGAAGTTG
<i>ptxA</i> -comp-Fw	GTGCCGTTGGTAGTGGGAGGTGAATGAGGGCGCCAAGGGCCGCGCAGGC
<i>ptxA</i> -comp-Re	CTTTAGATTCTAGAGCCCGGCAGGTGCGGTGAGCGGAAGGTACTCAAGCGC
<i>apr</i> -Fw	CCCCGGCGGTGTGCTG
<i>apr</i> -Re	GACGTCGCGGTGAGTTCAGGC

*Restriction sites are underlined.