TABLE S1. Bacterial strains and plasmids used in this study.

Strain/ Plasmid	Properties	Reference
Strains		
E. coli DH5α	Cloning strain, *rec*A1, Δ*lac*Z	Gibco BRL now Invitrogen
E.coli BL21 (DE3)	Expression strain	[1]
P. aeruginosa PAO1	Parent strain	[2]
C. violaceum (DSM Nr. 30191)	Parent strain	DSMZ, Braunschweig
A. tumefaciens NTL4 (pCF218)(pCF372)	Reporter strain for autoinducer molecules, *traI::lacZ*, km^R, carrying pCF218 & pCF372	[3-5]
A. tumefaciens KYC6	AHL overproducing transposon mutant	[3]
Plasmids		
pBio5-pBKCMV	Metagenome-derived clone encoding *bpiB09* gene in pBK-CMV, km^R	This work, GenBank# EF530730.1,
pBluescript SK+	Cloning vector, amp^R	Fermentas/Thermo Scientific, St. Leon-Rot, Germany
pET-19a	N-terminal 10-his cloning vector, amp^R	Novagen, Karlsruhe, Germany
pET-21a	C-terminal 6-his cloning vector, amp^R	
pBBR1MCS-5	Broad host-range vector , km^R	[6]
pBK-CMV	Phagemid vector; km^R	Stratagene
pET19b::*bpiB09_dimer*	Dimerization mutants G162Y and D109K	This work
pET19b::*bpiB09_tetra*	Tetramerization mutant, G162Y and D109K and deletion of F227 to end	This work
pBBR1MCS-5::*bpiB09*	pBBR1MCS-5 containing *bpiB09*	This work
pBBR1MCS-5::*celA*	pBBR1MCS-5 containing 2 kb cellulase gene, experimental control	[7]
pBBR1MCS-5::*ACP_0942*	pBBR1MCS-5 containing *A. capsulatum* possible SDR gene ACP_0942	This work

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