Supplementary Table S1

Table S1 A. *N. punctiforme* strains and oligonucleotides used in this work.

N. punctiforme strains	Relevant characteristics and details of mutants construction	Oligonucleotides used to confirm homozygosity of mutants
WT	UCD 153: ATCC 29133 wild-type derivate, scytonemin producer (Campbell *et al.*, 2007)	
Δ*scyE*	scytoneminless mutant (Ferreira and Garcia-Pichel, 2016)	
Δebo	Npun_F5232 to Npun_F5236 knockout. Primers used to create a 5364 bp deletion: sat-XhoI: ATCATCCTCGAGCGACAAATCCACCTGGTGGACTTC satI1: ACGCGGTACAGCACTAAATGCC satI2: GGCATTTAGTGCTGTACCGCGTGGCTCTCACGGTAATATCACCAC satR: CCCGACTTCTTCAAGAAATCGGG	satF: AAGTTGGGCAACTTCTCCTG satR2: GCTGGATAAGGGTTACGTAG satF2: GGGTAAACAAGCCTACCATC F5234R satF3: GCCAAACTGGGCAGATGAAAGC F5232R
Δ*eboA*	Npun_F5232 knockout. Primers used to create a 606 bp deletion: sat-XhoI satI1 F5232I2: GGCATTTAGTGCTGTACCGCGTTGTGCCGAGTCTCCTTTACC F5232R: GCCGATGGAATCCACCATAAGG	satF F5233I1 satR2 F5232F: CTGTAGGGCGGTTTGCGGATAG
Δ*eboB*	Npun_F5233 knockout. Primers used to create a 720 bp deletion: sat-XhoI F5233I1: CGTAAGTAGTACGGGAACAC F5233I2: GTGTTCCCGTACTACTTACGGCCAAACTGGGCAGATGAAAGC F5233R: ACGCGCAAACACAGATTGTGG	F5232F F5234I1 F5233R2: AAGCGTTCCCAGCCTACAAGAC F5235L-XhoI
Δ*eboC*	Npun_F5234 knockout. Primers used to create a 657 bp deletion: F5234L-XhoI: ATCGCGCTCGAGAAGTTGGGCAACTTCTCCTG F5234I1: AGCCGGAAGCAGCGAAACCTAC F5234I2: GTAGGTTTCGCTGCTTCCGGCTTAGCCGGAAATATCCGAAATGCG F5234R: CAGCCTCTATACTGCCTTTC	satF3 F5232R F5234R2: CCGCCGCCGTATAAACCACTTG F5234F: CGATCGCAGCACTACCATTCG
Δ*eboE*	Npun_F5235 knockout. Primers used to create a 768 bp deletion: F5235L-XhoI: ATCGCGCTCGAGGCTAGTCAGTTTGGCATCCAACAC F5232R F5235I2: CCTTATGGTGGATTCCATCGGCCTACCCAAGATGACATCGCTACTG F5235R: CTGAATACACATCCGCCACTTAGG	F5234F F5236I1 F5233R F5235F: ACGTCGCACTGATGGTACACTG
Δ*eboF*	Npun_F5236 knockout. Primers used to create a 1131 bp deletion: F5236L-XhoI: ATCGCGCTCGAGGGGCGGATATTCTTGTAGGTTTCG F5236I1: ATTGACGCTACCTGTCCTTTCG F5236I2: CGAAAGGACAGGTAGCGTCAATTGGCTCTCACGGTAATATCAC satR	F5235F F5234R F5236R2: GCGACAATCCCATGTTCATC satF2

Underlined letters indicate introduced XhoI restriction endonuclease cleavage site.

Table S1 B. *E. coli* strains and oligonucleotides used in this work

E. coli strains	Relevant characteristics and details of mutant construction	Oligonucleotides used to confirm mutants
E. coli harboring pRSFDuet:*scyABC*	Forward primer containing NcoI restriction site: 5'-GCCGCCCATATGACTATACTGGTTCC-3' Reverse primer containing SacI restriction site: 5'-TTAGTTGGGAACTAGGGATTCTTG-3'	5'-GCCGCCCATATGACTATACTGGTTCC-3'
E. coli harboring pRSFDuet:*scyABC-scyEF*	Forward primer containing NdeI restriction site 5'-TGGGATTCGTTGTCTTTAAACCC-3' Reverse primer containing FseI restriction site 5'-TCAGCATTGTTGCTTTTGCAGTTCTTTC-3'	5'- TGGGATTCGTTGTCTTTAAACCC-3'