Table S3. Oligonucleotides used in this study.

Oligonucleotide	Sequence (5´→ 3´) and properties[a]
Oligonucleotides for overexpression of *phyR*, *nepR*, and *ecfG1*Δ1-64 in *E. coli*	
phyR EXP F1	GCATATGTCCACAGCACAACTGGTCGTG
phyR EXP R1	GCGGCCGCGGCGTTGTGCGCCTCGC
phyR TP F	CACCATGTCCACAGCACAACTG
phyR TP R	GGCGTTGTGCGCCTCGC
phyR NtermR	GATTTCCGTGGCCATGTC
nepR_for	TATATACATATGTTGAATGACCAGACGCAGAGGCG
nepR_rev	ATATATGAATTCGACGCTCGCCGGATCGTCCGG
4906 wo Nterm F1	CATATGGGCGAGCGGATCGATC
4906 R2	GGATCCTCAGGCGTCGGGCATC
Oligonucleotides for overexpression of *phyR*, *nepR*, and *ecfG1* in *M. extorquens*	
pCM80_regI PstI F	CATGGCTGCAGCAGCAACG
pCM80_regI KpnI R	CATCGGCCGGTACCTTTTCACGG
3114D190A up	GGCCTGATCCTCGCCGCCATTCAGCTCGCCGATGGC
3114D190A down	GCCATCGGCGAGCTGAATGGCGGCGAGGATCAGGCC
3115_-137F	GCCATGACTCATGTCAAGCTGCAAGAC
3115_R3	CGATCAGACGCTCGCCGGATCGTCCG
nepRhis-f	TATATATCTAGACAATCGCGGCAGATGTGGCGCC
nepRhis -r	TATATAGAATTCTCAGTGGTGGTGGTGGTGGTGCTCGAGGACGCTCGCCGGA TCGTCCGGATTG
PhyR F1 PstI	CTGCAGGAAGAGGCTCAGGGGAACTC
PhyR R1 XbaI	CGATCTAGATCAGGCGTTGTGCG
Oligonucleotides for construction of the *ecfG1* deletion mutant in *M. extorquens*	
META1_4906 Up F	CATATGGCAGCTCCAGGAGCGCTTCC
META1_4906 Up R	GCCAACGTTCGCTTCGGTATCGTTACGCATCGG
META1_4906 Down F	ATACCGAAGCGAACGTTGGCTCGAAGGACG
META1_4906 Down R	ACCGGTGGCTGACCATTGTCGATGCG

[a] some oligonucleotides were designed to introduce recognition sites for restriction endonucleases; recognition sites are underlined.