

METHOD PAPER

Specific detection of form IA RubisCO genes in chemoautotrophic bacteria

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FIGURE S1 Alignment of *cbbL* form IA sequences encompassing the region used for primer design. The annealing position of the primer is underlined and bases are shown in bold. Base mismatches between the primer and the template sequences are indicated by red letters.

Primer cbbL_IA_CHEM	GARGGNTCNGTNGTYAACGT
<i>Acidithiobacillus ferrooxidans</i> (X7355)	TACCCCATCGATCTCTTCGAA <u>GAAGGTTCCGTGGTCAACGT</u> CTTCACCTCGCTGGTT
<i>Actinoplanes subtropicus</i> (NZ_JOJL116)	TACCCCTCGATCTCTTCGAG <u>GAGGGATCCGTGGTCAACGT</u> CCTGACGTCGCTGGCC
<i>Acidimicrobium ferrooxidans</i> (CP1631)	TACCCGATCGACCTCTTCGAA <u>GAGGGCTCGGTTCGTCAACGT</u> CTTCACATCGCTGGTC
<i>Nitrobacter winogradskyi</i> (AF19915)	TACCCCATCGACCTTTTTGAG <u>GAAGGCTCGGTTCGTCAACGT</u> GTTACCTCGCTGGTG
<i>Comamonadaceae bacterium H1</i> (NZ_BAWN111)	TACCCGATCGACCTGTTTCGAA <u>GAGGGCTCGGTGGTCAACGT</u> GTTTACCTCGCTGGTG
<i>Hydrogenophaga pseudoflava</i> (U5537)	TACCCGATCGACCTGTTTCGAG <u>GAGGGCTCGGTGGTCAACGT</u> ACTGACCTCGCTGGTG
<i>Limnohabitans</i> sp. 63ED37-2 (CP11774)	TACCCCATCGACCTGTTTCGAA <u>GAGGGCTCGGTTCGTCAACGT</u> GCTGACCTCTTTGGTC
<i>Nitrosomonas halophila</i> Nm1 (FNOY11)	TATCCGATCGATTTGTTTGAA <u>GAAGGTTCCGTGGTCAACGT</u> GTTACCTCGTTGGTC
<i>Nitrosomonas</i> sp. AL212 (CP2552)	TACCCGATTGATCTTTTTGAA <u>GAAGGTTCCGTTCGTCAACGT</u> GTTGACCTCCCTGGTA
<i>Nitrosospira</i> sp. TCH716 (AF459718)	TATCCCATCGACCTTTTTGAA <u>GAAGGTTCCGTTGTCAACGT</u> GTTACCTCGCTGGTG
<i>Sulfuricella denitrificans</i> skB26 (AP1366)	TACCCGATCGACCTGTTTCGAA <u>GAAGGATCCGTTCGTCAACGT</u> TCTGACTTCGCTGGTG
<i>Thiobacillus</i> sp. SCN 64-317 (MEG0125)	TACCCAATCGACCTGTTTCGAG <u>GAAGGCTCGGTTCGTCAACGT</u> GCTGACCTCGCTGGTC
<i>Hydrogenovibrio marinus</i> (AB1227)	TACCCACTAGACCTATTTGAA <u>GAAGGTTCTGTGGTTAACGT</u> ATTGACTTCATTGGTT
<i>Oxygenic Photoautotrophs</i>	
<i>Planktothrix agardhii</i> (CM283)	TATCCTCTGGATCTGTTTGAA <u>GAAGGTTCCGTTACCAACTT</u> ACTGACATCTTTAGTC
<i>Prochlorococcus marinus</i> (NZ_JNAL115)	TATCCTTTAGATCTTTTTGAA <u>GAAGGCTCAATTACAAACGT</u> ATTAAACATCATTAGTA
<i>Synechococcus rubescens</i> (AM71775)	TATCCCTCGACCTGTTTCGAA <u>GAAGGCTCCATCACCAACGT</u> TCTGACCTCCTTGGTC
<i>Synechococcus</i> sp. CB25 (NZ_ADXM148)	TACCCCTCGATCTGTTTCGAA <u>GAGGGTTCCGTACCAACGT</u> TCTGACCTCCCTGGTC
<i>Synechococcus</i> sp. PCC792 (AM71776)	TATCCCTCGACCTGTTTCGAG <u>GAGGGGTCGATCACCAACGT</u> GCTCACCTCCCTGGTG
Primer cbbL_IA_CHEM	GARGGNTCNGTNGTYAACGT
