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  | GARGGNNTCNNGTNGTYAACGT |
|----------------------|-------------------------|
| Acidithiobacillus ferrooxidans (X7355) | TACCCCATCGATCTCTTCGAAAGGTTCCGTTGCTAAACGTCTTCACCTCGCTGGTT |
| Actinoplanes subtropicus (NZ_JOJL116) | TACCCCATCGACCTCTTTGAGGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Acidimicrobium ferrooxidans (CP1631) | TACCCGATCGACCTGTTCGAGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Nitrobacter winogradskyi (AF19915) | TACCCCATCGACCTTTTTGAGGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Comamonadaceae bacterium H1 (NZ_BAWN111) | TACCCGATCGACCTGTTCGAGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Hydrogenophaga pseudoflava (U5537) | TACCCGATCGACCTGTTCGAGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Limnohabitans sp. 63ED37-2 (CP11774) | TACCCGATCGACCTGTTCGAGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Nitrosonomas halophila Nm1 (FNOY11) | TATCCGATCGATTTGTTTGAAAGGCTCGGTGGTCAACGTGTTCACCTCGCTGGTC |
| Nitrosonomas sp. AL212 (CP2552) | TACCCATCGACCTCTTTGAGGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Nitrosospira sp. TCH716 (AF459718) | TACCCATCGACCTCTTTGAGGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Sulfuricella denitrificans skB26 (AP1366) | TACCCGATCGACCTCTTTGAGGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Thiobacillus sp. SCN 64-317 (MEGO125) | TACCCGATCGACCTCTTTGAGGAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Hydrogenovibrio marinus (AB1227) | TACCCGACCTCTTTTGGAAAGGCTCGGTGGTCAACGTGTTTACCTCGCTGGTA |
| Oxygenic Photoautotrophs | |
| Planktothrix agardhii (CM283) | TATCCCTGGATCTCTTTGAAAGGTTCCGTTGCAACAACGTATCGACCTCTTTTAGTC |
| Prochlorococcus marinus (NZ_JNAL115) | TATCCCTGGATCTCTTTGAAAGGTTCCGTTGCAACAACGTATCGACCTCTTTTAGTC |
| Synechococcus rubescens (AM71775) | TACCCCTGGATCTCTTTGAAAGGTTCCGTTGCAACAACGTATCGACCTCTTTTAGTC |
| Synechococcus sp. CB25 (NZ_ADXM148) | TACCCCTGGATCTCTTTGAAAGGTTCCGTTGCAACAACGTATCGACCTCTTTTAGTC |
| Synechococcus sp. PCC792 (AM71776) | TACCCCTGGATCTCTTTGAAAGGTTCCGTTGCAACAACGTATCGACCTCTTTTAGTC |
| Primer cbbL_IA_CHEM  | GARGGNNTCNNGTNGTYAACGT |