

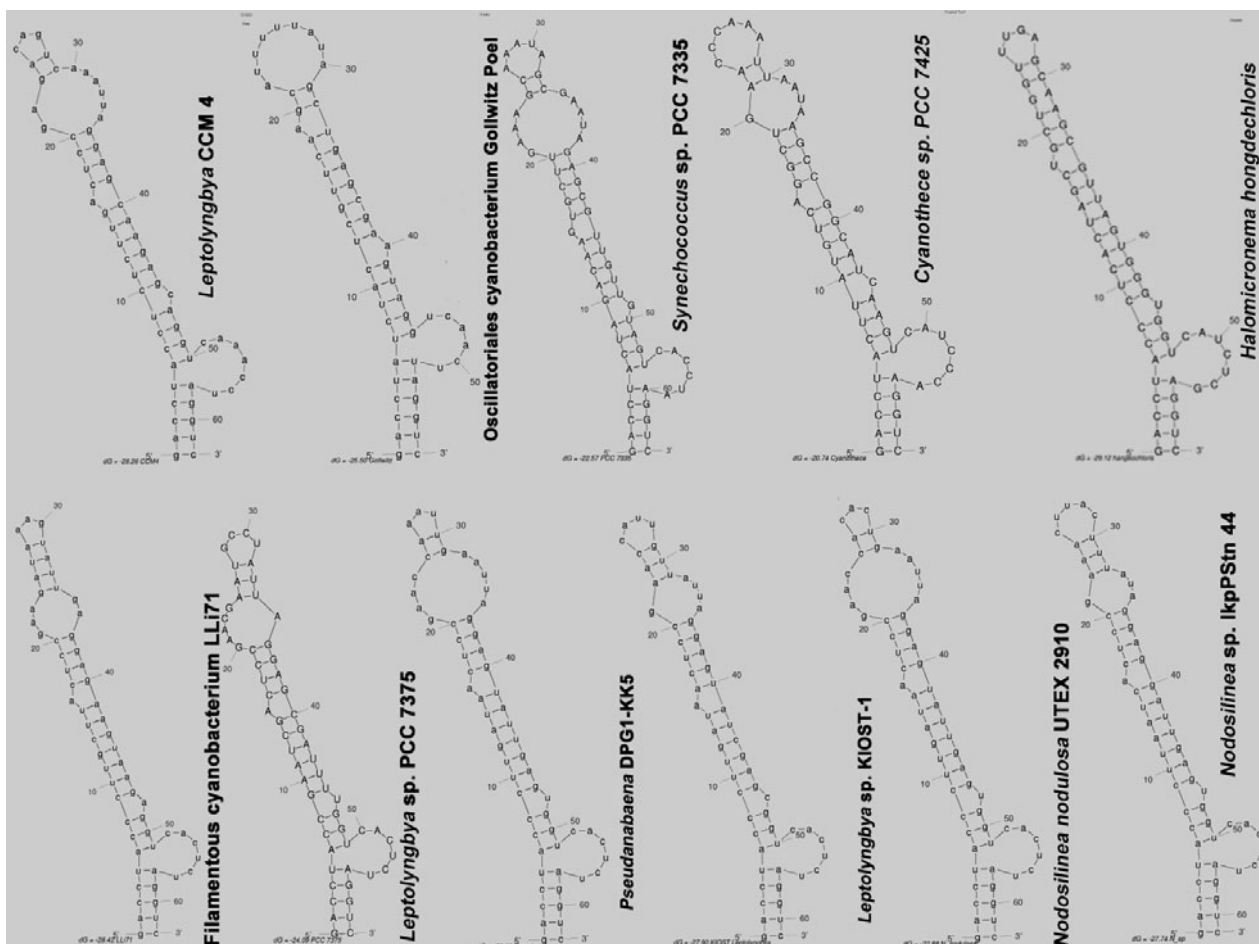


Fig 2S. Secondary structures of D1-D1' helices of various strains of cyanobacteria with close identity sequence to *Leptolyngbya* CCM 4. L. CCM4, KY999936; Gollwitz Poel, EF654035; S. sp. PCC 7335, AB015062.1; C. sp. PCC 7425, NC_011884.1; *H. hongdechloris*, LAZT01000008.1 nt 37722 to 42551; F. Cyanobacterium LLi71, DQ786167.1; L. sp. PCC 7375, NZ_JH993797; *Pseudanabaena*, EF654067.1; L. sp. KIOST-1, JX401929; *N. nodulosa* UTEX 2910, KF307598.1; *Nodosilinea* sp., KM438183.