



**Fig. 7** Phylogenetic tree showing the position of cyanobacterial SSU rDNA sequences from Alchichica cyanobacterial mats. The tree was constructed by neighbor-joining using 739 unambiguously aligned positions. Bootstrap values were calculated from 1,000 replicates;

only those above 50% are shown at nodes. Sequences from our Alchichica libraries are shown in **bold**. The depth at which a given phylotype was found is indicated by *white, grey, or black squares*