



**Supplementary Figure 3.** Drop assay performed with the cold-resistant clones that are formed by two or more putative genes. In this cold-test, the cold-resistance of the complete clones and the subclones have been compared. DH10B strain carrying an empty pBluescript vector was used as a positive control and both cold sensitive strains (DH10B  $\Delta csdA$  and DH10B  $\Delta csdA \Delta rnr$ ) also carrying empty pBluescript vectors were used as negative controls. The cell density of overnight cultures was adjusted to OD<sub>600 nm</sub> values of 1.0, serial dilutions were performed and 10  $\mu$ l drops of each dilution were inoculated on LB-Ap<sub>50</sub> plates that were grown at 15°C for 10 days. Each experiment was repeated at least three times using independent cultures.