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Heatmap showing the expression of 12 genes (AW112010, ST198a1, ST198a3, ST198a4, ST198a5, ST198a6, ST198a7, ST198a8, ST198a9, ST198a10, ST198a11, ST198a12) across 12 samples (S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12). The color scale ranges from 0 (black) to 100 (yellow).

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Figure 1 shows a phylogenetic tree of the 16S rDNA sequences of the 16 isolates. The tree is rooted at the bottom with a scale bar of 0.01. The isolates are grouped into two main clusters: a large cluster of 15 isolates (13a, 13b, 13c, 13d, 13e, 13f, 13g, 13h, 13i, 13j, 13k, 13l, 13m, 13n, 13o) and a single isolate (13p). The 15 isolates are further grouped into three sub-clusters: a large cluster of 10 isolates (13a, 13b, 13c, 13d, 13e, 13f, 13g, 13h, 13i, 13j), a cluster of 5 isolates (13k, 13l, 13m, 13n, 13o), and a single isolate (13p). The 10 isolates are further grouped into three sub-clusters: a large cluster of 7 isolates (13a, 13b, 13c, 13d, 13e, 13f, 13g), a cluster of 2 isolates (13h, 13i), and a single isolate (13j). The 7 isolates are further grouped into three sub-clusters: a large cluster of 4 isolates (13a, 13b, 13c, 13d), a cluster of 2 isolates (13e, 13f), and a single isolate (13g). The 4 isolates are further grouped into three sub-clusters: a large cluster of 3 isolates (13a, 13b, 13c), a cluster of 1 isolate (13d), and a single isolate (13e). The 3 isolates are further grouped into three sub-clusters: a large cluster of 2 isolates (13a, 13b), a cluster of 1 isolate (13c), and a single isolate (13d). The 2 isolates are further grouped into three sub-clusters: a large cluster of 1 isolate (13a), a cluster of 1 isolate (13b), and a single isolate (13c). The 1 isolate is further grouped into three sub-clusters: a large cluster of 1 isolate (13a), a cluster of 1 isolate (13b), and a single isolate (13c).

Heatmap showing the expression of 15 genes across 10 samples. The genes are: sb4x, b1, a1, a2, a3, a4, a5, mp1, fch, and ag. The expression levels are color-coded from blue (low) to red (high). The samples are labeled at the top: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The heatmap shows a clear pattern of gene expression across the samples, with some genes showing high expression in specific samples and others showing low expression.

Figure 10: Heatmap showing the expression of 10 genes (G10, G14, G18, G22, G28, G29, G30, G31, G32, G33) across 10 samples (G10, G14, G18, G22, G28, G29, G30, G31, G32, G33). The color scale ranges from 0 (yellow) to 1 (purple). The heatmap shows a clear pattern of gene expression across the samples, with G10 and G14 showing high expression in G10 and G14, and G22 and G28 showing high expression in G22 and G28.

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