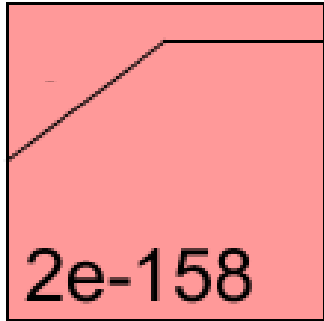
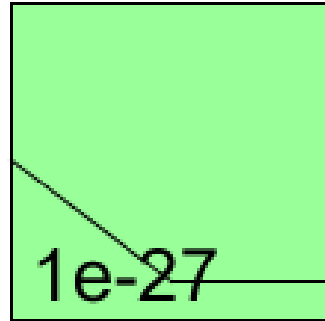


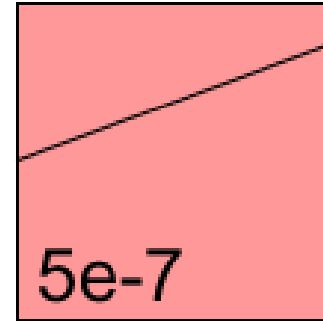
profile 1: 887 genes



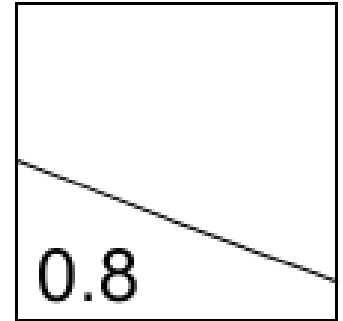
profile 4: 392 genes



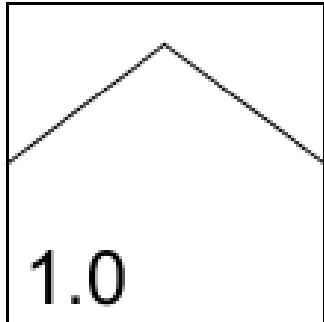
profile 2: 189 genes



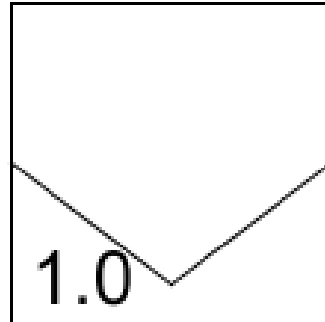
profile 8: 124 genes



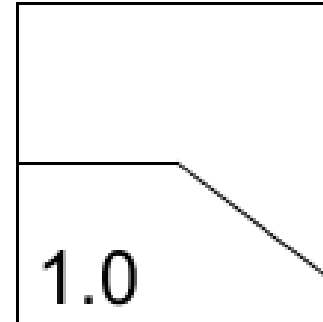
profile 6: 231 genes



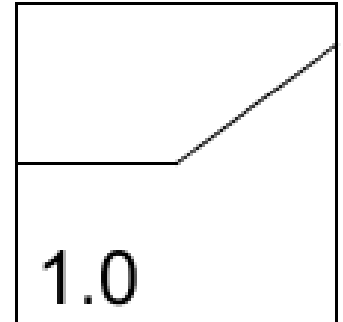
profile 5: 139 genes



profile 7: 93 genes



profile 3: 91 genes



**Additional file 10. All STEM profiles by significance.**

Profiles ordered based on the p-value significance of number of genes assigned versus expected. The ID and gene numbers of profiles were showed on the top of frames. P-values were represented with the number inside. Colored figures denoted the p-value ( $p < 0.05$ ) significance, and the similar trends were setted with the same color.