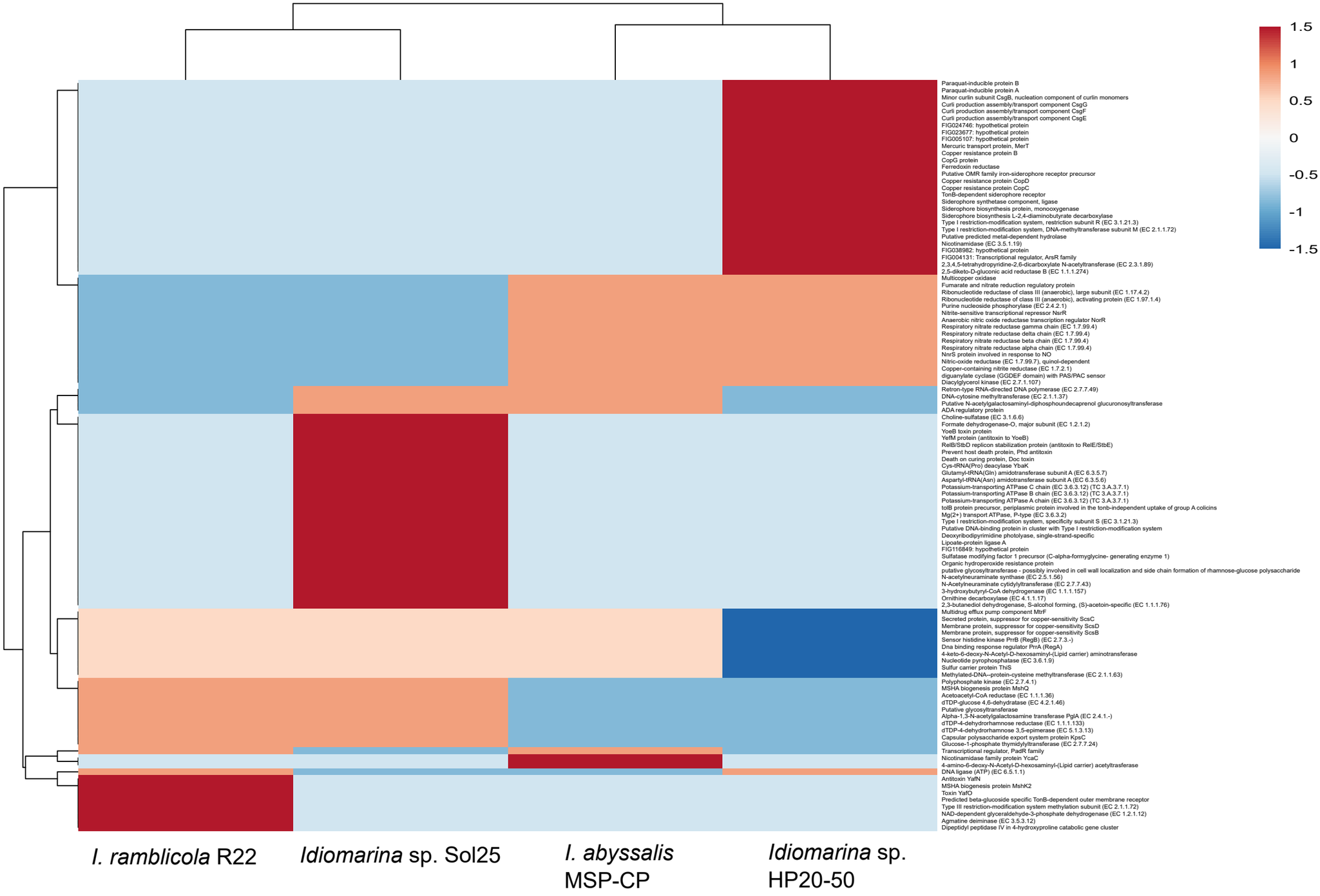Additional file 4 The heatmap shows a comparison of the unique functional metabolic pathways between Sol25, HP20-50 and the closely related isolates determined by the phylogenetic analysis using the TYGS (Type Strain Genome Server). Rows indicate individual "Roles" determined using the RAST server, and columns indicate individual isolates. The distribution of unique genes is shown in red (genes present only in a single isolate), while dark blue indicates absence of genes.