**Table S3.** Gene ontology slim categories enriched in Buffered and Amplified genes.

| term_ID       | description                                      | log10 p-value |
|---------------|--------------------------------------------------|---------------|
| GO:0007154    | cell communication                               | -2.0023       |
| GO:0009056    | catabolic process                                | -2.2184       |
| GO:0009987    | cellular process                                 | -2.2339       |
| GO:0044699    | single-organism process                          | -3.9966       |
| GO:0051179    | localization                                     | -2.6193       |
| GO:0044248    | cellular catabolic process                        | -2.2489       |
| GO:0044763    | single-organism cellular process                 | -2.1546       |

**Buffered**

| term_ID       | description                                      | log10 p-value |
|---------------|--------------------------------------------------|---------------|
| GO:1901605    | alpha-amino acid metabolic process               | -4.4949       |
| GO:0044710    | single-organism metabolic process                | -2.541        |
| GO:0000103    | sulfate assimilation                             | -2.4692       |
| GO:1901564    | organonitrogen compound metabolic process        | -3.3163       |
| GO:0006082    | organic acid metabolic process                    | -4.5749       |
| GO:0044281    | small molecule metabolic process                 | -3.1142       |
| GO:1901565    | organonitrogen compound catabolic process        | -3.2689       |
| GO:0009069    | serine family amino acid metabolic process       | -2.0884       |
| GO:0009066    | aspartate family amino acid metabolic process    | -2.7459       |
| GO:0009067    | aspartate family amino acid biosynthetic process | -2.4238       |
| GO:0019752    | carboxylic acid metabolic process                | -4.2096       |
| GO:0043436    | oxoacid metabolic process                        | -4.5935       |
| GO:0006520    | cellular amino acid metabolic process            | -4.3143       |

**Amplified (higher expression in S. cerevisiae)**

| term_ID       | description                                      | log10 p-value |
|---------------|--------------------------------------------------|---------------|
| GO:0055114    | oxidation-reduction process                      | -2.4972       |
| GO:1901678    | iron coordination entity transport               | -3.3027       |
| GO:0015688    | iron chelate transport                           | -2.4883       |

**Amplified (higher expression in S. paradoxus)**