

Table 8. Correlation between X= marker profile for MTR3 and Y= any gene profile

| Gene Y | CORR | Gene Information |
|-------------|--------|---|
| YOR300W | 0.616 | Up in Starvation |
| PBP1 | 0.509 | Poly(A)-binding protein binding protein |
| YOR081C | 0.498 | Protein of unknown function, localizes to lipid particles; potential Cdc28p substrate |
| ACH1 | 0.480 | acetyl CoA hydrolase |
| SSA4 | 0.464 | HSP70 family |
| CIT1 | 0.463 | citrate synthase |
| HSP26 | 0.462 | heat shock protein 26 |
| GSY2 | 0.450 | glycogen synthase (UDP-glucose-starch glucosyltransferase) |
| CIN5 | 0.448 | bZIP (basic-leucine zipper) protein can activate transcription from a promoter containing a Yap recognition site |
| YPL230W | 0.445 | Up in Starvation |
| HAP4 | 0.444 | transcriptional activator protein of CYC1 (component of HAP2/HAP3 heteromer) |
| YPR152C | 0.440 | - |
| SOD2 | 0.437 | Mn-containing superoxide dismutase |
| CDC15 | 0.429 | protein kinase domain |
| YPL014W | 0.423 | - |
| MSN4 | 0.422 | zinc finger protein |
| YDL197C | 0.418 | - |
| RPI1 | 0.413 | ras inhibitor |
| YMR279C | 0.413 | - |
| ECM30 | 0.407 | Non-essential protein of unknown function |
| BIO2 | -0.530 | biotin synthase |
| PHO81 | -0.488 | Positive regulatory protein of phosphate pathway |
| MTR3 | -0.481 | Involved in mRNA transport |
| YGR154C | -0.475 | - |
| PDH1 | -0.451 | prpD homologue; (62% identical to the prpD genes of Escherichia coli and Salmonella typhimurium, which play an unknown but essential role in propionate catabolism) |
| YLR334C | -0.449 | - |
| STB6 | -0.412 | binds Sin3p in two-hybrid assay |
| VPS33 | -0.409 | vacuolar sorting protein essential for vacuolar morphogenesis and function |
| MET8 | -0.396 | Bifunctional dehydrogenase and ferredoxinase, involved in the biosynthesis of siroheme; also involved in the expression of PAPS reductase and sulfite reductase |
| YDR415C | -0.388 | - |
| CHS7 | -0.385 | The seventh gene identified that is involved in chitin synthesis; involved in Chs3p export from the ER |
| YOL166C | -0.382 | - |
| YOL164W | -0.381 | - |
| YGL050W | -0.381 | - |
| YAL035C-A | -0.380 | - |
| MFA1 | -0.376 | a-factor mating pheromone precursor |
| YDL114W | -0.376 | - |
| YNL170W | -0.372 | Sporulation |
| YBR190W | -0.371 | Protein required for cell viability |
| PTC1 | -0.369 | serine-threonine protein phosphatase |