**Supplemental Table 1:** Genes involved in the cAMP/PKA/PLC pathway, which were tested with the *mho1Δ* strain*;* none were SL with *mho1Δ*.

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| **GENE** | **FUNCTION (www.yeastgenome.org)** |
| BUB1 1 | Protein kinase involved in the cell cycle checkpoint into anaphase; forms complex with Mad1p and Bub3p crucial to preventing cell cycle progression into anaphase in the presence of spindle damage |
| BUB3 1 | Kinetochore checkpoint WD40 repeat protein that localizes to kinetochores during prophase and metaphase, delays anaphase in the presence of unattached kinetochores |
| CBF1 1 | Dual function helix-loop-helix protein; binds the motif CACRTG present at centromere DNA element I (CDEI); affects nucleosome positioning at this motif; associates with kinetochore proteins and required for efficient chromosome segregation |
| MAD2 1 | Component of the spindle-assembly checkpoint complex; delays the onset of anaphase in cells with defects in mitotic spindle assembly; regulates APC/C activity during prometaphase and metaphase of meiosis I |
| ARG82/IPK2 2 | Inositol polyphosphate multikinase (IPMK), sequentially phosphorylates Ins(1,4,5)P3 to form Ins(1,3,4,5,6)P5; also has diphosphoinositol polyphosphate synthase activity; regulates arginine-, phosphate-, and nitrogen-responsive genes |
| IPK1 2 | Inositol 1,3,4,5,6-pentakisphosphate 2-kinase, nuclear protein required for synthesis of 1,2,3,4,5,6-hexakisphosphate (phytate), which is integral to cell function |
| KCS1 2 | Inositol hexakisphosphate (IP6) and inositol heptakisphosphate (IP7) kinase; generation of high energy inositol pyrophosphates by Kcs1p is required for many processes such as vacuolar biogenesis, stress response and telomere maintenance |
| VIP1 2 | Inositol hexakisphosphate (IP6) and inositol heptakisphosphate (IP7) kinase; IP7 production is important for phosphate signaling; involved in cortical actin cytoskeleton function, and invasive pseudohyphal growth |
| RAS1 3 | GTPase involved in G-protein signaling in the adenylate cyclase activating pathway, plays a role in cell proliferation; localized to the plasma membrane; homolog of mammalian RAS proto-oncogenes |
| RAS2 3 | GTP-binding protein that regulates the nitrogen starvation response, sporulation, and filamentous growth; farnesylation and palmitoylation required for activity and localization to plasma membrane; homolog of mammalian Ras proto-oncogenes |
| IRA2 3 | GTPase-activating protein that negatively regulates RAS by converting it from the GTP- to the GDP-bound inactive form, required for reducing cAMP levels under nutrient limiting conditions, has similarity to Ira1p and human neurofibromin |
| GPA2 3 | Nucleotide binding alpha subunit of the heterotrimeric G protein that interacts with the receptor Gpr1p, has signaling role in response to nutrients; green fluorescent protein (GFP)-fusion protein localizes to the cell periphery |

1: Published genes having a SL phenotype with *plc1Δ*

2: The four inositol polyphosphate kinases downstream of Plc1 which further process IP3 to IP4, IP5, and IP6.

3: Genes involved the cAMP/PKA pathway signalling