

**Table S2** List of experimental treatments in this *S. bayanus* gene expression compendium.

Condition	number of datasets (arrays)
growth at different temperatures	1 (3)
heat shock	4 (18)
ammonium	1 (6)
cadmium	1 (4)
copper	1 (6)
lead	1 (6)
nickel	1 (5)
sulfite toxicity	1 (6)
zinc	1 (6)
ethanol toxicity	1 (6)
sorbitol	1 (6)
bleach	1 (6)
hydrogen peroxide	3 (18)
2-deoxyglucose	1 (6)
hydroxyurea	1 (6)
lovastatin	1 (4)
MG-132	1 (5)
MMS	1 (6)
rapamycin	1 (6)
tunicamycin	1 (6)
zeocin	1 (6)
chronological aging	3 (13)
diauxic shift	1 (6)
galactose	1 (5)
glycerol	1 (4)
sucrose	1 (4)
auxotroph starvation	1 (11)
nutrient limited chemostat growth	3 (7)
mating type and ploidy	1 (3)
alpha factor	1 (8)
cell cycle	1 (30)
sporulation	3 (18)
strain backgrounds	1 (4)
cross progeny	1 (22)
Tn7 insertions	1 (27)
Total	46 (303)