

Table S1. Sphingolipid responses to alterations in level of *LCB2* expression in strain *Tet07-LCB2*. Measured sphingolipid levels are based on nine biological replicates.

Sphingolipid	pmole / nmole cellular phosphate mean (standard error)			two-tailed <i>t</i> -test <i>p</i> -value	
	Low (-2.7x) <i>LCB2</i>	Wild-type <i>LCB2</i>	High (7.3x) <i>LCB2</i>	WT vs. Low <i>LCB2</i>	WT vs. High <i>LCB2</i>
C14-Ceramide	0.008 (0.0028)	0.0038 (4e-04)	0.0043 (0.001)	0.211	0.6602
C18:1-Ceramide	0.0018 (0.0014)	7e-04 (6e-04)	4e-04 (1e-04)	0.5835	0.6815
C18-Ceramide	0.022 (0.0036)	0.0149 (0.0045)	0.0364 (0.0102)	0.2347	0.0794
C20:1-Ceramide	0.0014 (2e-04)	8e-04 (2e-04)	0.0036 (0.0012)	0.0377	0.0555
C20-Ceramide	0.0499 (0.0079)	0.0299 (0.0078)	0.056 (0.0175)	0.0912	0.2008
C22:1-Ceramide	5e-04 (1e-04)	0.0012 (8e-04)	3e-04 (1e-04)	0.425	0.3275
C22-Ceramide	0.005 (0.0014)	0.0032 (7e-04)	0.0035 (8e-04)	0.2953	0.7994
C24:1-Ceramide	0.0027 (0.0013)	0.0016 (7e-04)	6e-04 (2e-04)	0.4849	0.2892
C26-Ceramide	0.0056 (0.0048)	0.0012 (2e-04)	0.0013 (2e-04)	0.3878	0.5976
C12-Dihydroceramide	8e-04 (1e-04)	0.0012 (4e-04)	0.0024 (0.001)	0.3258	0.2855
C14-Dihydroceramide	6e-04 (1e-04)	9e-04 (3e-04)	0.0017 (6e-04)	0.5476	0.206
C16-Dihydroceramide	0.0033 (6e-04)	0.0023 (5e-04)	0.0044 (0.0013)	0.2062	0.1654
C18:1-Dihydroceramide	1e-04 (0)	2e-04 (0)	2e-04 (1e-04)	0.0216	0.7953
C18-Dihydroceramide	0.0329 (0.0046)	0.0197 (0.0034)	0.0372 (0.009)	0.037	0.0964
C20:1-Dihydroceramide	3e-04 (1e-04)	3e-04 (1e-04)	3e-04 (0)	0.9694	0.9616
C20-Dihydroceramide	0.047 (0.0071)	0.0281 (0.0047)	0.0648 (0.0191)	0.0438	0.0997
C22:1-Dihydroceramide	0.0044 (7e-04)	0.002 (4e-04)	0.0063 (0.0022)	0.0113	0.0954
C22-Dihydroceramide	0.0978 (0.026)	0.0724 (0.0191)	0.046 (0.0169)	0.4438	0.3146
C26:1-Dihydroceramide	6e-04 (4e-04)	3e-04 (1e-04)	8e-04 (3e-04)	0.5239	0.2028
C26-Dihydroceramide	0.027 (0.0077)	0.0117 (0.0015)	0.1124 (0.0536)	0.0859	0.0974
Dihydrosphingosine	1.5245 (0.1698)	1.1986 (0.1592)	1.0618 (0.2145)	0.1807	0.616
Dihydrosphingosine 1-Phosphate	0.3682 (0.0731)	0.4646 (0.1227)	0.2382 (0.0976)	0.5113	0.1689
Sphingosine 1-Phosphate	0.0024 (0.002)	0.0011 (5e-04)	5e-04 (3e-04)	0.5908	0.2583