

Supplementary Table 1

Figure 2

CY4029	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	0.63	0.03	4.11
	0.85	0.05	6.10
	0.87	0.06	6.82
	1.07	0.01	0.94
	1.08	0.02	1.94
	1.08	0.04	3.70
	1.21	0.00	0.00
	1.27	0.04	3.39
	1.48	0.02	1.22
	1.62	0.36	22.28
	1.96	0.09	4.69
	2.07	0.24	11.50
	2.68	0.23	8.62
	2.80	0.12	4.18
	2.94	0.12	4.08
	3.07	0.04	1.40
	3.91	0.52	13.30
	-	-	6.10
	-	-	7.95
	-	-	16.07
	-	-	25.52
<i>sit4</i> Δ	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	0.30	0.21	68.09
	0.35	0.06	18.34
	0.41	0.21	50.24
	0.49	0.14	28.98
	0.53	0.29	54.37
	0.55	0.22	40.55
	0.55	0.31	55.46
	0.65	0.08	12.31
	0.65	0.34	52.84
	0.69	0.26	37.83
	0.71	0.34	47.69
	0.82	0.13	15.73
	0.87	0.07	8.51
	1.16	0.11	9.40
	1.88	0.44	23.51
	1.89	1.39	73.55
	3.89	1.58	40.62
	-	-	24.04
	-	-	26.92
	-	-	29.02
	-	-	52.84

<i>sap</i> $\Delta\Delta\Delta\Delta$	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	0.26	0.04	14.51
	0.65	0.32	49.23
	0.79	0.07	8.71
	0.92	0.07	7.61
	0.97	0.12	12.41
	1.13	0.09	7.52
	-	-	12.41
<i>sap185</i> Δ	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	1.20	0.04	2.92
	1.80	0.02	1.11
	3.42	0.22	6.43
	4.15	0.30	7.13
<i>sap190</i> Δ	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	0.91	0.03	2.75
	0.95	0.03	3.05
	1.81	0.14	7.90
<i>sap4</i> Δ <i>sap155</i> Δ	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	0.67	0.03	3.88
	0.74	0.05	6.76
	0.93	0.33	35.16
	1.54	0.08	5.46
	1.63	0.11	6.50
	2.21	0.15	6.61
	3.02	0.13	4.24
<i>sap185</i> Δ <i>sap190</i> Δ	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	0.47	0.03	6.81
	0.60	0.06	10.33
	0.68	0.03	5.00
	0.69	0.09	12.32
	0.96	0.02	2.47
	2.56	0.10	3.71
	3.02	0.17	5.63
<i>elp1</i> Δ	0 μ M Ceramide OD ₆₀₀	15 μ M Ceramide OD ₆₀₀	% of untreated growth
	0.64	0.11	16.56
	0.80	0.23	28.50
	2.48	0.22	8.71
	-	-	6.42
	-	-	8.25
	-	-	24.91

<i>elp2</i> Δ	0 μM Ceramide OD ₆₀₀	15 μM Ceramide OD ₆₀₀	% of untreated growth
	0.40	0.02	5.82
	0.48	0.03	5.21
	0.67	0.01	2.09
	-	-	1.53
	-	-	3.75
	-	-	4.10

<i>elp3</i> Δ	0 μM Ceramide OD ₆₀₀	15 μM Ceramide OD ₆₀₀	% of untreated growth
	0.69	0.31	44.20
	1.69	0.10	5.86
	2.80	0.21	7.46
	-	-	20.50
	-	-	21.97
	-	-	43.33

<i>kti12</i> Δ	0 μM Ceramide OD ₆₀₀	15 μM Ceramide OD ₆₀₀	% of untreated growth
	0.82	0.89	108.54
	1.22	0.19	15.25
	1.59	0.66	41.38
	-	-	10.94
	-	-	12.31
	-	-	32.41

<i>sit4</i> Δ <i>kti12</i> Δ	0 μM Ceramide OD ₆₀₀	15 μM Ceramide OD ₆₀₀	% of untreated growth
	0.40	0.03	7.50
	0.97	0.01	1.03
	1.19	0.03	2.52
	2.00	0.04	2.00

Supplementary Table 2

Figure 3

OD ₆₀₀							
Phytoceramide (μM)							
		CY4029					
0	0.76	0.84	1.51	1.59	1.99	2.76	
5	0.24	0.60	0.33	0.65	1.48	1.93	
10	0.02	0.11	0.24	0.37	0.41	0.69	
15	0.00	0.12	0.23	0.33	0.41	0.74	
		<i>kti12</i> Δ					
0	0.57	0.63	1.20	1.71	2.52	2.59	2.79
5	0.57	0.52	1.52	2.19	2.49	2.15	2.40
10	0.31	0.44	0.74	0.69	2.46	2.89	2.60
15	0.28	0.37	0.70	0.77	2.99	2.61	2.72
		<i>sit4</i> Δ					
0	0.33	0.50	0.54	0.57	0.97	1.02	1.03
5	0.16	0.50	0.24	0.20	1.05	0.58	1.02
10	0.12	0.23	0.30	0.21	0.49	0.46	0.51
15	0.10	0.26	0.25	0.25	0.62	0.36	0.46
		% of untreated growth					
Phytoceramide (μM)							
		CY4029					
0	100.00	100.00	100.00	100.00	100.00	100.00	
5	30.84	71.39	21.92	40.94	74.37	69.93	
10	1.97	12.63	15.76	23.52	20.75	24.86	
15	0.00	14.42	15.10	20.75	20.35	26.63	
		<i>kti12</i> Δ					
0	100.00	100.00	100.00	100.00	100.00	100.00	100.00
5	100.00	83.02	126.67	128.07	98.81	83.01	86.02
10	54.91	69.84	61.67	40.47	97.62	111.58	93.19
15	49.65	58.41	58.08	45.26	115.08	100.77	97.49
		<i>sit4</i> Δ					
0	100.00	100.00	100.00	100.00	100.00	100.00	100.00
5	47.27	99.40	44.90	35.31	108.15	56.86	99.12
10	34.85	46.60	54.73	36.36	50.67	44.71	50.15
15	29.39	51.00	46.01	43.18	63.88	35.10	44.88

DHS (μ M)	OD ₆₀₀					
	CY4029					
0	0.76	1.32	1.44	1.53	1.74	4.62
0.1	1.32	1.32	1.30	1.22	1.79	1.47
0.2	0.10	0.31	0.08	0.16	0.22	0.15
0.5	0.01	0.00	0.00	0.01	0.05	0.10

<i>kti12</i> Δ						
0	1.35	1.99	2.01	2.47	3.00	3.09
0.1	1.32	1.77	1.98	2.96	2.13	2.10
0.2	0.38	0.45	0.25	0.73	0.55	0.22
0.5	0.02	0.02	0.00	0.00	0.00	0.00

<i>sit4</i> Δ						
0	0.27	0.39	0.57	0.70	0.77	1.00
0.1	0.25	0.32	0.35	0.66	1.07	0.83
0.2	0.03	0.01	0.00	0.00	0.59	0.80
0.5	0.02	0.01	0.00	0.00	0.00	0.05

DHS (μ M)	% of untreated growth					
	CY4029					
0	100.00	100.00	100.00	100.00	100.00	100.00
0.1	173.68	100.00	90.28	79.74	102.87	31.82
0.2	13.42	23.41	5.21	10.33	12.41	3.16
0.5	1.45	0.00	0.00	0.65	2.76	2.21

<i>kti12</i> Δ						
0	100.00	100.00	100.00	100.00	100.00	100.00
0.1	97.78	88.94	98.51	119.84	71.00	67.96
0.2	28.00	22.61	12.54	29.55	18.23	7.25
0.5	1.19	0.80	0.00	0.00	0.00	0.00

<i>sit4</i> Δ						
0	100.00	100.00	100.00	100.00	100.00	100.00
0.1	95.09	82.44	61.95	93.46	138.96	83.00
0.2	11.32	1.78	0.00	0.00	76.36	80.30
0.5	9.06	3.05	0.00	0.00	0.00	5.00

PHS (μM)	OD ₆₀₀						
	CY4029						
0	1.02	1.09	1.24	1.77	1.82	1.88	2.24
1	0.65	1.80	2.00	1.53	1.03	1.50	1.98
2	0.65	0.68	1.90	2.39	0.76	1.78	1.85
3	0.13	0.68	0.92	1.71	0.73	0.92	1.41
4	0.08	0.49	0.80	0.84	0.14	0.86	1.46
5	0.04	0.35	0.70	0.73	0.05	0.91	2.87
6	0.02	0.32	0.84	0.65	0.03	0.72	0.60

<i>kti12</i> Δ							
0	0.68	0.82	0.85	0.92	0.94	2.37	2.73
1	0.36	0.75	0.66	0.95	0.50	2.63	3.48
2	0.28	0.91	0.73	0.79	0.41	2.00	2.77
3	0.20	0.54	0.52	0.70	0.36	2.22	2.63
4	0.26	0.52	0.44	1.03	0.25	1.72	2.35
5	0.14	0.33	0.41	0.31	0.22	1.91	1.93
6	0.14	0.10	0.37	0.10	0.25	1.70	1.82

<i>sit4</i> Δ							
0	0.41	0.42	0.47	0.69	0.70	0.72	0.77
1	0.56	0.42	0.44	0.68	0.80	0.65	0.72
2	0.43	0.41	0.38	0.67	0.74	0.61	0.71
3	0.44	0.38	0.34	0.63	0.84	0.55	0.68
4	0.40	0.40	0.37	0.69	0.74	0.58	0.96
5	0.51	0.40	0.58	0.65	0.79	0.58	0.68
6	0.62	0.39	0.42	0.67	0.79	0.67	0.65

0	0.79	0.92	0.92
1	0.25	0.83	0.85
2	0.42	0.85	0.82
3	0.35	0.87	0.85
4	0.13	0.82	0.88
5	0.05	0.88	0.82
6	0.09	1.02	0.84

% of untreated growth**PHS (μ M)****CY4029**

0	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1	63.92	165.14	161.29	86.44	56.76	79.79	88.39
2	63.53	62.29	153.23	135.03	40.11	94.68	82.59
3	12.25	62.11	73.79	96.61	40.12	49.15	62.95
4	7.75	44.77	64.52	47.46	7.69	45.48	65.18
5	3.53	31.65	56.69	41.07	2.86	48.56	128.13
6	1.96	29.72	67.58	36.89	1.81	38.24	26.79

***kti12* Δ**

0	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1	52.50	90.63	77.29	103.05	53.09	110.97	127.47
2	40.44	110.71	85.76	86.04	43.19	84.39	101.47
3	29.41	66.55	60.82	76.66	37.77	93.67	96.34
4	37.79	62.90	51.65	112.43	26.81	72.57	86.08
5	20.00	40.15	47.76	33.59	22.87	80.59	70.70
6	19.85	12.29	43.65	10.69	26.60	71.73	66.67

***sit4* Δ**

0	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1	137.16	100.95	94.02	97.68	114.90	90.93	93.39
2	105.87	97.14	80.77	96.24	106.59	85.50	91.57
3	106.36	91.65	71.58	90.59	119.63	76.01	87.81
4	98.04	94.75	78.21	99.57	105.87	80.75	124.90
5	123.47	94.75	123.72	93.63	113.04	80.20	87.81
6	151.10	93.56	90.38	96.96	112.75	93.44	83.92

0	100.00	100.00	100.00
1	31.81	89.50	92.42
2	52.85	80.95	88.20
3	44.74	94.05	91.45
4	16.86	88.31	95.24
5	5.83	95.13	88.32
6	11.91	110.71	101.95