Electronic Supplementary Material (ESI) for Molecular BioSystems.

Table 1. Relative proteomic changes between WT and Δyca1 cells

Spot number	Theoretical Mr (Da)	Theoretical pI	N. of peptides identified	Mascot score	Proteins identified	Function	NCBI accession number	Fold change	Expression level
Carbohydrate metabolism									
1911	39811	5.51	8	174	Fba1	Fructose 1,6-bisphosphate aldolase	gi|6322790	2.2	Down
882	35938	6.46	24	427	Tdh2	Glyceraldehyde-3-phosphate dehydrogenase, isozyme 2	gi|6322468	2.2	Down
753	35938	6.46	7	58			gi|6322468	2.3	Down
1910	27461	8.86	37	600	Gpm1	Glycerate PhosphoMutase	gi|2624630	2.1	Down
114	46942	5.67	36	826	Eno2	Enolase II	gi|6321968	2.0	Down
1911	61685	5.8	27	593	Pdc1	Pyruvate DeCarboxylase	gi|6323073	2.2	Down
972	37282	6.21	55	943	Adh1	Alcohol dehydrogenase	gi|6324486	2.5	Down
349	37282	6.21	46	827			gi|6324486	2.2	Down
408	37127	6.09	10	311	Tal1	Transaldolase	gi|6323386	2.1	Down
Amino acid metabolism									
408	38347	6.84	38	724	Hom6	Homoserine dehydrogenase (L-homoserine:NADP oxidoreductase)	gi|7245384	2.1	Down
649	37283	6.21	38	632	Sfa1	Bifunctional alcohol dehydrogenase and formaldehyde dehydrogenase	gi|480311017	2.0	Down
Nucleic acid metabolism									
474	35387	8.51	5	133	Prs3	PhosphoRibosylpyrophosphate Synthetase	gi|6321776	3.3	Down
Translation machinery									
1031	41542	8.36	27	359	Tef1/2	Translation elongation factor	gi|32563240	4.6	Down
1029	41545	8.36	33	505			gi|32693297	2.5	Down
1939	41542	8.36	19	415			gi|32563240	4.0	Down

1926	50400	9.14	7	149			gi|6319594	2.8	Down
1949	50400	9.14	11	199			gi|6319594	3.0	Down
1308	13685	5.91	3	99	Rpl22a	Ribosomal 60S subunit protein L22A	gi|6323090	2.1	Down
1659	28852	10.02	7	247	Rps1b	Ribosomal protein 10 (rp10) of the small (40S) subunit	gi|6323577	2.6	Down
1031	26543	9.42	22	555	Rps3	Ribosomal protein of the small subunit	gi|398364505	4.6	Down
649	26518	9.44	4	106			gi|468426	2.0	Down
1949	26543	9.42	24	575			gi|398364505	3.0	Down
1910	29449	10.09	36	675	Rps4b	Protein component of the small (40S) ribosomal subunit	gi|6321997	2.1	Down
1659	29449	10.09	16	653			gi|6321997	2.6	Down
882	15992	10.7	2	64	Rps15	Ribosomal protein of the small subunit	gi|6324533	2.2	Down
882	15838	10.26	4	92	Rps16b	Ribosomal protein of the small subunit	gi|6320120	2.2	Down
1354	18786	4.41	5	102	Tma19	Translation machinery-associated protein 19	gi|6322794	2.6	Up
					Protein transport and folding				
1807	17010	6.1	12	253	Egd1	Enhancer of Gal4 DNA binding	gi|6325220	2.0	Down
1939	56630	9.42	2	51	Nup57	FG-nucleoporin component of central core of the nuclear pore complex	gi|1945327	4.0	Down
					Stress response				
769	19274	5.01	6	336	Ahp1	Alkyl HydroPeroxide reductase	gi|6323138	2.8	Up
773	19274	5.01	6	336			gi|6323138	2.1	Up
					Cell wall biosynthesis				
570	29216	5.14	6	129	Sec53	Phosphomannomutase	gi|14318474	2.0	Up
408	39684	5.95	3	63	Psa1	GDP-mannose pyrophosphorylase	gi|894204	2.1	Down
					Vacuolar acidification				

570	26568	5.48	6	136	Vma4	Vacuolar H^+-Atp-ase	gi|173169	2.0	Up
					Unknown				
557	27541	5.10	15	210	Hri1	HRr25 Interacting	gi|6323332	2.1	Up
					Other				
882	15956	9.07	3	124	Mmf1	Mitochondrial Matrix Factor	gi|151943108	2.2	Down