

Table S1: List of candidate genes showing reduced expression levels in the absence of extracellular Ca²⁺ and that contain predicted transmembrane domains

Gene	FPKM ¹ VMM	FPKM ¹ No Ca ²⁺	Annotation	TM domains ²
NCU00306	3	1	MFS multidrug transporter F	11
NCU00720	110	48	L-lactate dehydrogenase F	1
NCU00821	35	15	sugar transporter F	10
NCU00832	4	1	hypothetical protein	2
NCU01289	83	39	hypothetical protein	1
NCU01382	54	9	hypothetical protein	5
NCU01697	55	7	hypothetical protein	4
NCU02191	101	51	hypothetical protein	1
NCU03132	108	40	hypothetical protein	1
NCU03192	204	101	hypothetical protein	1
NCU03863	51	11	hypothetical protein	4
NCU04736	27	10	Calcium P-type ATPase-2	11
NCU04872	28	7	hypothetical protein	2
NCU05132	7	2	hypothetical protein	13
NCU05136	43	16	endo alpha-1,4 polygalactosaminidase precursor F	1
NCU05138	9	1	hypothetical protein *	1
NCU05798	13	4	hypothetical protein	2
NCU05826	90	47	hypothetical protein	1
NCU05836	76	38	glycosyl hydrolase family 47 protein F	1
NCU05915	65	23	hypothetical protein	1
NCU06034	171	39	hypothetical protein	4
NCU06116	24	8	hypothetical protein	2
NCU06130	78	21	hypothetical protein	4
NCU06328	33	16	hypothetical protein	6
NCU06361	297	155	Cell wall protein cwl1 required for septation F	3
NCU06380	63	29	zinc transporter YKE4 F	8
NCU07075	12	4	calcium/proton exchanger	11
NCU07235	17	2	hypothetical protein	1
NCU07338	44	17	alpha-1,6-mannosyltransferase OCH1 #	1
NCU07388	22	9	hypothetical protein#	1
NCU07582	3	1	hypothetical protein	1
NCU07769	20	7	hypothetical protein	6
NCU07802	14	1	hypothetical protein	1
NCU07974	178	88	endoglucanase B F	1
NCU08433	10	1	hypothetical protein*	7
NCU08447	10	1	hypothetical protein	7
NCU08524	2	1	hypothetical protein	1
NCU08870	44	18	hypothetical protein	1
NCU09294	39	14	hypothetical protein *	1
NCU09307	24	10	Plasma membrane fusion protein LFD1	1
NCU09337	46	13	plasma membrane fusion protein PRM1	5

NCU09562	339	88	hypothetical protein	1
NCU09852	69	31	hypothetical protein	2
NCU09909	4	1	urea active transporter F	15
NCU09955	5	1	hypothetical protein	8
NCU10610	53	4	hypothetical protein	4
NCU11172	452	71	hypothetical protein *	4
NCU11308	98	36	hypothetical protein *	2
NCU11733	19	3	hypothetical protein *	2
NCU12021	296	39	hypothetical protein *	4

¹Rows that are bolded indicate strains that showed increased lysis of adhered germlings as compared to WT germling pairs ($p < 0.05$).

²Data from Goncalves et al., (1); ³FPKM: fragments per kilobase of exon per million fragments mapped.

⁴ TM domains were predicted TMHMM 2.0 (2).

* Deletion strains not available at the time of this study; # Deletion strains showing conidiation defects; F Deletion strains eliminated based on annotation, such as genes encoding metabolic enzymes or transporters.

References

1. **Goncalves AP, Monteiro J, Lucchi C, Kowbel DJ, Cordeiro JM, Correia-de-Sa P, Rigden CJ, Glass NL, Videira A.** 2014. Extracellular calcium triggers unique transcriptional programs and modulates staurosporine-induced cell death in *Neurospora crassa*. *Microbial Cell* **1**:289-302.
2. **Krogh A, Larsson B, von Heijne G, Sonnhammer EL.** 2001. Predicting transmembrane protein topology with a hidden Markov model: application to complete genomes. *J Mol Biol* **305**:567-580.

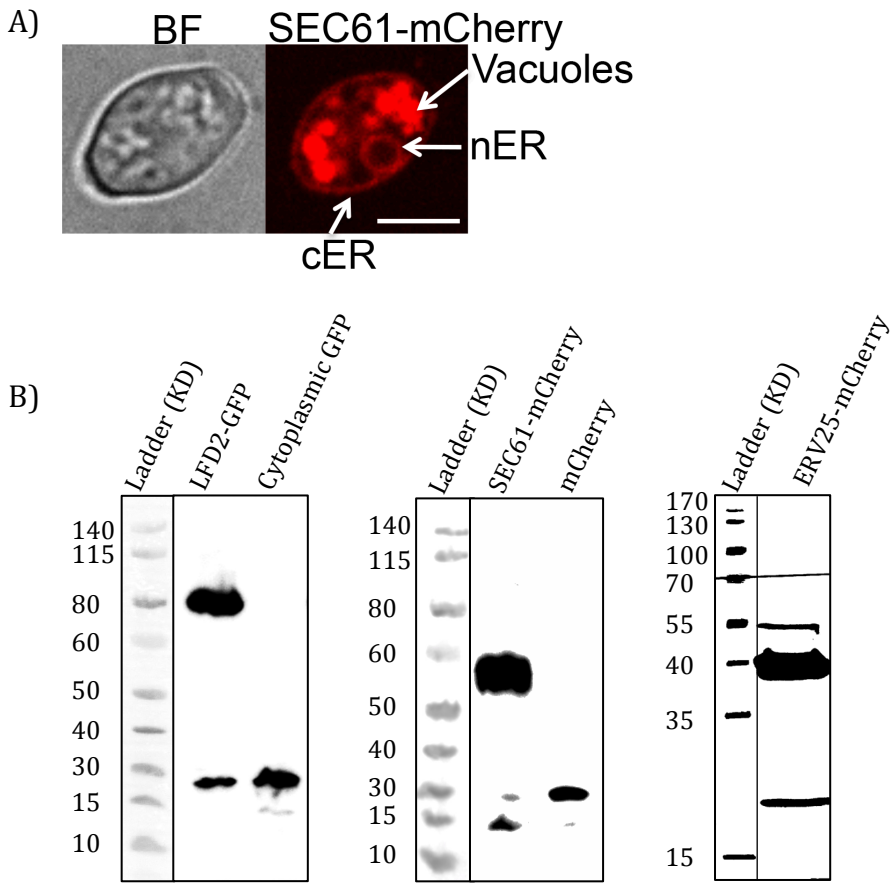


Figure S1: A) SEC61-mCherry localization in ungerminated conidia. SEC61 shows both nuclear (nER) and cortical ER (cER) localization as well as vacuolar localization. Scale bar = 5 μ m. B) Western blots for LFD2-GFP, SEC61-mCherry and ERV25-mCherry, using anti-GFP or anti-mCherry antibodies, respectively. Molecular weight markers are shown on left.