

**Supplemental Table S1. Strains, plasmids, and primers used**

<b><i>C. neoformans</i> strain name</b>	<b>Identifier</b>	<b>Reference</b>
H99 $\alpha$	H99 $\alpha$	(Nielsen et al., 2003)
crz1 $\Delta$	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i>	FGSC deletion set Plate 5 Well A7
BC402	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1-mNeonGreen-NEO<sup>r</sup></i>	This Study
XX510	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-mCherry-CRZ1-NEO<sup>r</sup></i>	(Xu et al., 2017)
BC948	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(7S -&gt; A)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC979	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(polyQ -&gt; A)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC982	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 1-257)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1212	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 833-926)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1245	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 625-665)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1249	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 946-1030)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1252	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 1-802)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1256	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 1-451)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1258	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 1-705)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1259	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 1-823)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1273	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 1-368)-mNeonGreen-NEO<sup>r</sup></i>	This Study
BC1310	H99 $\alpha$ , <i>CRZ1::NAT<sup>r</sup></i> , <i>P<sub>GPD1</sub>-CRZ1(<math>\Delta</math>N 263-451)-mNeonGreen-NEO<sup>r</sup></i>	This Study
<b>Plasmid name</b>	<b>Identifier</b>	<b>Reference</b>
pXL1-mCherry-CRZ1	<i>P<sub>GPD1</sub>-mCherry-CRZ1-NEO<sup>r</sup></i>	(Xu et al., 2017)
pUC19-CRZ1-mNeonGreen	<i>P<sub>GPD1</sub>-CRZ1-mNeonGreen-NEO<sup>r</sup></i>	This Study
LKB39	<i>P<sub>H3</sub>-GFP-CNA1-NAT<sup>r</sup></i>	(Kozubowski et al., 2011)



Linlab7958/BC	atcctccatcccatttgattg	Generate $\Delta$ 263-451 mutant
Linlab7962/BC	gttgagctcgccttctcc	Generate $\Delta$ 625-665 mutant
Linlab7963/BC	ggagaaggcgagctcaactgcatcagctcactcaatta	Generate $\Delta$ 625-665 mutant

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- Nielsen, K., Cox, G.M., Wang, P., Toffaletti, D.L., Perfect, J.R., and Heitman, J. (2003). Sexual cycle of *Cryptococcus neoformans* var. *grubii* and virulence of congenic  $\alpha$  and  $\beta$  isolates. *Infection and immunity* *71*, 4831-4841. 10.1128/iai.71.9.4831-4841.2003.
- Xu, X., Lin, J., Zhao, Y., Kirkman, E., So, Y.-S., Bahn, Y.-S., and Lin, X. (2017). Glucosamine stimulates pheromone-independent dimorphic transition in *Cryptococcus neoformans* by promoting Crz1 nuclear translocation. *PLOS Genetics* *13*, e1006982. 10.1371/journal.pgen.1006982.