

**Table S2 Primers used during this study**

Gene	FGSC Number	Primer designation	Primer sequence (5' to 3')
NCU02496	16654	Forward-diag <sup>1</sup>	GAACTTCCTAGGTTGCTGG
		Reverse-orf <sup>2</sup>	GCAGCAGGTGAGTCTGGTAGTG
		Reverse-out <sup>3</sup>	GCAGATTGCTCGCTCCATTG
		Reverse-diag <sup>4</sup>	ATGAAGTGCTGGTTGGAAGG
NCU06252	14464	Forward-diag	GCTGTGGTGCGAGACTTTG
		Reverse-diag	CACCATGATTCTCTCCGTCG
<i>hph</i>	Not Applicable	Forward-HPH	CGCCCCAGCACTCGTCCGAAG
		Reverse-HPH	GGCATTATTGTTGACCTCCA

<sup>1</sup>Forward-diag = Sequence upstream of 5' flanking region of knockout cassette

<sup>2</sup>Reverse-orf = Sequence at 5' end of Open Reading Frame (ORF)

<sup>3</sup>Reverse-out = Sequence at upstream of the 5' end of ORF

<sup>4</sup>Reverse-diag = Sequence downstream of 3' flanking region of knockout cassette