

Supplementary File 1. Primers used to generate MSP2 KO lines.

5' flank MSP2 KO F	GGTCCGCGGCTCGACTAATCAATTTACAATTC	Sac11
5' flank MSP2 KO R	GGTACTAGTGCCATACTTCTCCTTATACTC	Spe1
3' flank MSP2 KO F	GGTGAATTCCTCTTCATTTTAAAACATTGAC	Ecor1
3' flank MSP2 KO R	GGTCCATGGGTTTTTTCAATGCGTGC	Nco1
Dd2 MSP2 KO 5' flank F	GGTCCGCGGCTCGACTAATCAATTTACAATTC	Sac11
Dd2 MSP2 KO 5' flank R	GGTACTAGTCTAGTAGTATTAGAACCTTCATTTG	Spe1
Dd2 MSP2 KO 3' flank F	GGTGAATTCATTCTCTTCATTTTAAAACATTGAC	EcoR1
Dd2 MSP2 KO 3' flank R	GGTCCATGGGTACTTGAAGAAATATGGTACC	Nco1
PfMSP2 guide 1 F	TAAGTATATAATATTTGGTAATGGTGCAGATGCTGGTTTT AGAGCTAGAA	
PfMSP2 guide 1 R	TTCTAGCTCTAAAACCAGCATCTGCACCATTACCAAATATT ATATACTTA	
Dd2 MSP2 Guide 2 F	TAAGTATATAATATTGCACCAGAGAATAAAGGTACGTTTT AGAGCTAGAA	
Dd2 MSP2 Guide 2 R	TTCTAGCTCTAAAACGTACCTTTATTCTCTGGTGCAATAT TATATACTTA	
5' int 3D7 MSP2 KO F	CTTTTCATATAATAAATCAAATGCAC	
5' int 3D7 MSP2 KO R	TACAAAATGCTTAAGACAGATC	
3D7 WT 5' int check R	GGTAGTTGTGGTAGTAGC	
Dd2 5' check F	CAATTACGATATAAAACCTAGTATCTTTC	
Dd2 WT 5' int check R	CTATTTGTACTCCTTTGACTTCCAC	