

Table S2: Primers and crRNA used in this study

Name	Description	Sequence	Reference
AB001	Forward to make left flank of knockout construct for <i>MRR1</i>	5'- AAG GCG TGT CCT TCA TGT T - 3'	(1)
AB003	Reverse to make left flank of knockout construct for <i>MRR1</i>	5' - AAC GTC GTG ACT GGG AAA AAT CAT TAG CTT CGC TGG AAT TTC TGT TT - 3'	(1)
AB004	Forward to make right flank of knockout construct for <i>MRR1</i>	5' - TAT CCG CTC ACA ATT CCA CTG CTC GGT TCT GGT TCT ATA TG - 3'	(1)
AB006	Reverse to make right flank of knockout construct for <i>MRR1</i>	5' - GAG TAC GTG GAT CTC TAC TTG ATG - 3'	(1)
AB007	Nested forward to amplify across stitched <i>MRR1</i> knockout construct	5' - CTT TGC TTG TTT GGG AAA CCT C - 3'	(1)
AB008	Nested reverse to amplify across stitched <i>MRR1</i> knockout construct	5' - TGG CAT TGA ACC CGG AAA - 3'	(1)
AB009	Forward to amplify <i>NAT1</i> for <i>MRR1</i> knockout construct	5' - AAA CAG AAA TTC CAG CGA AGC TAA TGA TTT TTC CCA GTC ACG ACG TT - 3'	(1)
AB010	Reverse to amplify <i>NAT1</i> for <i>MRR1</i> knockout construct	5' - CAT ATA GAA CCA GAA CCG AGC AGT GGA ATT GTG AGC GGA TA - 3'	(1)
ED058	Forward for RT-PCR of <i>MDR1</i>	5' - TCCATCCATGGGTCCATTATTC	(1)
ED059	Reverse for RT-PCR of <i>MDR1</i>	5' – CTCAACACAAGGAAAGCACATC – 3'	(1)
ACT1-F	Forward for RT-PCR of <i>ACT1</i>	5' – GTA TCG CTG AGC GTA TGC AA – 3'	(2)
ACT1-R	Reverse for RT-PCR of <i>ACT1</i>	5' – GAT GGA TGG TCC AGA CTC GT – 3'	(2)
AB023	Forward to make left flank of knockout construct for <i>MGD1</i>	5' - CCG AAG AAT GAG CTA CGA GAA T - 3'	This study
AB024	Reverse to make left flank of knockout construct for <i>MGD1</i>	5' - AAC GTC GTG ACT GGG AAA AAT CAT TAT TTG GGT TGC TCT CGT GTT - 3'	This study
AB025	Forward to make right flank of knockout construct for <i>MGD1</i>	5' - TAT CCG CTC ACA ATT CCA CAA ATC CGG ACA TTG AGG ACT ATC - 3'	This study
AB026	Reverse to make right flank of knockout construct for <i>MGD1</i>	5' - CGG AGT ATC GTA TCC CAA CAA TAA - 3'	This study
AB027	Nested forward to amplify across stitched <i>MGD1</i> knockout construct	5' - AAC GAA GTG TAT GCA CAT TTG AC - 3'	This study
AB028	Nested reverse to amplify across stitched	5' - AGA TCG CAA TCT CCT TAA TGC T - 3'	This study

	<i>MGD1</i> knockout construct		
AB029	Forward to amplify <i>NAT1</i> for <i>MGD1</i> knockout construct	5' - AAC ACG AGA GCA ACC CAA ATA ATG ATT TTT CCC AGT CAC GAC GTT - 3'	This study
AB030	Reverse to amplify <i>NAT1</i> for <i>MGD1</i> knockout construct	5' - GAT AGT CCT CAA TGT CCG GAT TTG TGG AAT TGT GAG CGG ATA - 3'	This study
AB039	Forward for RT-PCR of <i>MGD1</i>	5' - CGC AGA AAT CCC TAA AGT AAA T - 3'	This study
AB040	Reverse for RT-PCR of <i>MGD1</i>	5' - TAC CCT TTG CTT CGT TCT T - 3'	This study
AB043	Forward to make left flank of knockout construct for <i>GLO1</i>	5' - GGC ATA TCT GCC ACT AGG AAA G - 3'	This study
AB044	Reverse to make left flank of knockout construct for <i>GLO1</i>	5' - AAC GTC GTG ACT GGG AAA AAT CAT TAC TTT AAT AAG CAG GCC GGA GT - 3'	This study
AB045	Forward to make right flank of knockout construct for <i>GLO1</i>	5' - TAT CCG CTC ACA ATT CCA TTG TAC GAG GAA GCG AGA A - 3'	This study
AB046	Reverse to make right flank of knockout construct for <i>GLO1</i>	5' - CCT TGA TCT TAG GCT CCA ACT T - 3'	This study
AB047	Nested forward to amplify across stitched <i>GLO1</i> knockout construct	5' - GAT CGG TGA GTG TGG TTC TTT - 3'	This study
AB048	Nested reverse to amplify across stitched <i>GLO1</i> knockout construct	5' - GCC GCC AAT GAA GAT GTT TG - 3'	This study
AB049	Forward to amplify <i>NAT1</i> for <i>GLO1</i> knockout construct	5' - ACT CCG GCC TGC TTA TTA AAG TAA TGA TTT TTC CCA GTC ACG ACG TT - 3'	This study
AB050	Reverse to amplify <i>NAT1</i> for <i>GLO1</i> knockout construct	5' - TTC TCG CTT CCT CGT ACA ATG GTG GAA TTG TGA GCG GAT A - 3'	This study
AB051	Forward for RT-PCR of <i>MGD2</i>	5' - CAG AGA TAC CTA AAG CCT TT - 3'	This study
AB052	Reverse for RT-PCR of <i>MGD2</i>	5' - TCC AAG ATG GTC TGT TGT G - 3'	This study
AB053	Forward to make left flank of knockout construct for <i>MGD2</i>	5' - GCT GTA GTC TGT AAG GTT AGG TC - 3'	This study
AB054	Reverse to make left flank of knockout construct for <i>MGD2</i> using <i>NAT1</i>	5' - AAC GTC GTG ACT GGG AAA AAT CAT TAG GTT CAG GCC ATA TTG ACT TTG - 3'	This study
AB055	Forward to make right flank of knockout construct for <i>MGD2</i> using <i>NAT1</i>	5' - TAT CCG CTC ACA ATT CCA CGG TTT CAA GCT ACT TAG TGT ATG G - 3'	This study

AB056	Reverse to make right flank of knockout construct for <i>MGD2</i>	5' – TGA GTA TGA GGA AGG GTG ATA TTC - 3'	This study
AB057	Nested forward to amplify across stitched <i>MGD2</i> knockout construct	5' – GCA TTT ATT GGA GTA TTG GAG ATG G - 3'	This study
AB058	Nested reverse to amplify across stitched <i>MGD2</i> knockout construct	5' – GTG TTC ATG ATC ATT GGG CAT AG - 3'	This study
AB059	Forward to amplify <i>NAT1</i> for <i>MGD2</i> knockout construct	5' – CAA AGT CAA TAT GGC CTG AAC CTA ATG ATT TTT CCC AGT CAC GAC GTT - 3'	This study
AB060	Reverse to amplify <i>NAT1</i> for <i>MGD2</i> knockout construct	5' – CCA TAC ACT AAG TAG CTT GAA ACC GTG GAA TTG TGA GCG GAT A - 3'	This study
AB069	Forward to make left flank of knockout construct for <i>CAP1</i>	5' - TCA ACA GAA GTA GTG CCT GTA T - 3'	This study
AB070	Reverse to make left flank of knockout construct for <i>CAP1</i> using <i>NAT1</i>	5' - AAC GTC GTG ACT GGG AAA AAT CAT TAG CTT TAA CGG CAA GGA GTT AG - 3'	This study
AB071	Forward to make right flank of knockout construct for <i>CAP1</i> using <i>NAT1</i>	5' - TAT CCG CTC ACA ATT CCA CGA AAC GGA CAG CGT AGT TAG T - 3'	This study
AB072	Reverse to make right flank of knockout construct for <i>CAP1</i>	5' - CAG CTT CTC CGT GTA TCG TTT A - 3'	This study
AB073	Nested forward to amplify across stitched <i>CAP1</i> knockout construct	5' - CGC TTC TTT ACG CAT TGT AAC C - 3'	This study
AB074	Nested reverse to amplify across stitched <i>CAP1</i> knockout construct	5' - CAG CGT ATT CGA CCC ATC TT - 3'	This study
AB075	Forward to amplify <i>NAT1</i> for <i>CAP1</i> knockout construct	5' - CTA ACT CCT TGC CGT TAA AGC TAA TGA TTT TTC CCA GTC ACG ACG TT - 3'	This study
AB076	Reverse to amplify <i>NAT1</i> for <i>CAP1</i> knockout construct	5' - ACT AAC TAC GCT GTC CGT TTC GTG GAA TTG TGA GCG GAT A - 3'	This study
AB092	Reverse to make left flank of knockout construct for <i>CAP1</i> using <i>HygB</i>	5' - GAC GTC AGG TGG CAC TTT TCG GGG GCT TTA ACG GCA AGG AGT TAG - 3'	This study
AB093	Forward to amplify <i>HygB</i> for <i>CAP1</i> knockout construct	5' - CTA ACT CCT TGC CGT TAA AGC CCC CGA AAA GTG CCA CCT GAC GTC - 3'	This study
AB094	Reverse to amplify <i>HygB</i> for <i>CAP1</i> knockout construct	5' - ACT AAC TAC GCT GTC CGT TTC GGC CTC GTG ATA CGC CTA TT - 3'	This study

AB095	Forward to make right flank of knockout construct for <i>CAP1</i> using <i>HygB</i>	5' - AAT AGG CGT ATC ACG AGG CCG AAA CGG ACA GCG TAG TTA GT - 3'	This study
AB122	Forward to amplify <i>MGD2</i> MMEJ construct with <i>HygB</i>	5' - GCG TAT AAT TAT TCC GTG TAT GTT GAA CTT CGG AAT TAA ACC CAA CGG GGT ATA GTG CTT GCT GTT CGA T - 3'	This study
AB123	Reverse to amplify <i>MGD2</i> MMEJ construct with <i>HygB</i>	5' - CCT TAA TTG TGC GAA CGT ACA TGA AAT CCT CAG TAT ATC ACA AAT CTT GCA TTT TAT GAT GGA ATG AAT G - 3'	This study
ED038	Forward to make left flank of knockout construct for <i>MDR1</i>	5' - CAG TAG TGT GTT CGT CTC CTT AG - 3'	(1)
ED042	Nested forward to amplify across stitched <i>MDR1</i> knockout construct	5' - CGG CGG AGT TAT ATC CGT TTC - 3'	(1)
ED043	Nested reverse to amplify across stitched <i>MDR1</i> knockout construct	5' - GGC TTC CGT ATT TAA GCT GTA CT - 3'	(1)
ED048	Reverse to make right flank of knockout construct for <i>MDR1</i>	5' - CCG ACC CTC CCA TTC AAT C - 3'	(1)
ED103	Forward to amplify <i>MRR1</i> and 1kb upstream w/ homology to pMQ30	5' - TTT TCC CAG TCA CGA CGT TGT AAA ACG ACG GCC GCG GCC GCA AGG CGT GTC CTT CAT GTT - 3'	This study
ED110	Reverse to amplify 1 kb downstream <i>MRR1</i> w/ homology to pMQ30	5' - CGG ATA ACA ATT TCA CAC AGG AAA CAG CTA TGA CCC GGA GCT TTT CAT CAC CAC CA - 3'	This study
ED115	Reverse to amplify <i>MRR1</i> and 1kb upstream w/ homology to <i>HygB</i>	5' - AGC AAT ATC GAA CAG CAA GCA CTA TAT CTA GAG GTT TAC GAC GGA ACT AGC TGC T - 3'	This study
ED121	Forward to amplify <i>HygB</i> w/ homology to <i>MRR1</i> (swap for <i>URA3</i>)	5' - TAG TTC AAC TCA GCA GCT AGT TCC GTC GTA AAC CTC TAG ATA TAG TGC TTG CTG TTC GAT - 3'	This study
ED122	Reverse to amplify <i>HygB</i> w/ homology to <i>MRR1</i> downstream (swap for <i>URA3</i>)	5' - CTG ATG TGC CGA TCA ATG AGT CAG AAA CAG CCT GTA TTT TAT GAT GGA ATG AAT GGG ATG - 3'	This study
ED125	Forward upstream of <i>MRR1</i> to validate complement	5' - GAA AAA GAA GCC AGC AGA CC - 3'	This study
ED126	Reverse downstream of <i>MRR1</i> to validate complement	5' - GGG TAA AGC CAT TGC AGA C - 3'	This study
ED187	Reverse to make left flank of knockout construct for <i>MDR1</i> using <i>HygB</i>	5' - GCA ATA TCG AAC AGC AAG CAC TAT AGC GAT TAG GTA TTA GAT GGA TGT TTG - 3'	This study
ED188	Forward to amplify <i>HygB</i> for <i>MDR1</i> knockout construct	5' - CAA ACA TCC ATC TAA TAC CTA ATC GCT ATA GTG CTT GCT GTT CGA TAT TGC - 3'	This study

ED189	Reverse to amplify <i>HygB</i> for <i>MDR1</i> knockout construct	5' – CCT GAA CAA TTA CCT TGT GAA CTC ATT TTA TGA TGG AAT GAA TGG G – 3'	This study
ED190	Forward to make right flank of knockout construct for <i>MDR1</i> using <i>HygB</i>	5' – CCC ATT CAT TCC ATC ATA AAA TGA GTT CAC AAG GTA ATT GTT CAG G – 3'	This study
NG_087	Reverse <i>NAT1</i> internal, for validation	5' – GAA GTT CCA GTT GAT CCA CCA TTG A – 3'	(3)
rev seq <i>NAT1</i>	Forward <i>NAT1</i> internal, for validation	5' – CGA TGG TAC TGC TTC CGA TGG – 3'	(3)
ED123	Reverse <i>HygB</i> internal, for validation	5' – CAT AAC CTC TAC CAC CAA CAT C – 3'	This study
ED124	Forward <i>HygB</i> internal, for validation	5' – GCT CAA GGT AGA TGT GAT GC – 3'	This study
POP01	Forward to amplify <i>CaURA3</i> w/ homology to pNAT	5' – ACA TCC GAA CAT AAA CAA CCA TGA CAG TCA ACA CTA AG – 3'	This study
POP02	Reverse to amplify <i>CaURA3</i> w/ homology to pNAT	5' – AAT CTT TTT ATT GTC AGT ATT TAT AAT TGG CCA GTT TTT TTC – 3'	This study
POP03	Forward to amplify pNAT, replacing <i>NAT1</i> w/ <i>CaURA3</i>	5' – ATA CTG ACA ATA AAA AGA TTC TTG TTT TCA AGA ACT TGT CAT TTG TAT AG – 3'	This study
POP04	Reverse to amplify pNAT, replacing <i>NAT1</i> w/ <i>CaURA3</i>	5' – GGT TGT TTA TGT TCG GAT GTG ATG TGA GAA CTG TAT C – 3'	This study
POP18	Reverse to validate pTEF1- <i>URA3</i>	5' - CAG GAA ACA GCT ATG ACC ATG – 3'	This study
POP19	Forward to validate pTEF1- <i>URA3</i>	5' - CGT ACA TTT AGC CCA TAC ATC C – 3'	This study
<i>MDR1</i> crRNA	crRNA for <i>MDR1</i>	5' – AGT CCT TGC TTG GCC ACA GG – 3'	(1)
<i>MRR1</i> crRNA	crRNA for <i>MRR1</i>	5' – TTC ATC ACT AAA GAT GAT GG – 3'	(1)
<i>CAP1</i> crRNA	crRNA for <i>CAP1</i>	5' – AAC CAC ACA CAA AAC CAG GG – 3'	This study
<i>MGD1</i> crRNA	crRNA for <i>MGD1</i>	5' – GGA GAA AGG ATA CTC CGT GG – 3'	This study
<i>MGD2</i> crRNA	crRNA for <i>MGD2</i> (used with <i>NAT1</i> construct)	5' – GAA AAA GTT TGC TGA AAA GG – 3'	This study
<i>MGD2</i> 5' crRNA	crRNA for <i>MGD2</i> (used with <i>HYGB</i> construct)	5' – GGG AAA GAC TAC AGA TAA GG – 3'	This study
<i>MGD2</i> 3' crRNA	crRNA for <i>MGD2</i> (used with <i>HYGB</i> construct)	5' – CTA TAC CGA TAA TCT GGA CT – 3'	This study
<i>GLO1</i> crRNA	crRNA for <i>GLO1</i>	5' – TGG CCA CAT TTG TAT CAC GG – 3'	This study
<i>NAT1</i> crRNA	crRNA for <i>NAT1</i> (making <i>MRR1</i> complement strains)	5' – GGG AAA ACC TTA GTC AAT GG – 3'	This study

References

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