

Supplemental Table 1. Oligonucleotides used in the site-directed *in vitro* mutagenesis for generating the mutant *mgm101* alleles.

Alleles	Name	Sequence
Y139A:	Mgm101Y139A-P1	5'-cca gat ggt ttg ata <u>GCC</u> ttg cct gaa att aaa-3'
	Mgm101Y139A-P2	5'-ttt aat ttc agg caa <u>GGC</u> tat caa acc atc tgg-3'
F244A:	Mgm101F244A-P1	5'-cat tgt act gag aag <u>GCT</u> gtg gaa cat gtt acc-3'
	Mgm101F244A-P2	5'-ggg aac atg ttc cac <u>AGC</u> ctt ctc agt aca atg-3'
K251A:	Mgm101K251A-P1	5'-gaa cat gtt acc acc <u>GCG</u> aga aag aag aaa att-3'
	Mgm101K251A-P2	5'-aat ttt ctt ctt tct <u>CGC</u> ggt ggt aac atg ttc-3'
R252A:	Mgm101R252A-P1	5'-cat gtt acc acc aag <u>GCA</u> aag aag aaa att tgg-3'
	Mgm101R252A-P2	5'-cca aat ttt ctt ctt <u>TGC</u> ctt ggt ggt aac atg-3'
K253A:	Mgm101K253A-P1	5'-gtt acc acc aag aga <u>GCG</u> aag aaa att tgg tta-3'
	Mgm101K253A-P2	5'-taa cca aat ttt ctt <u>CGC</u> tct ctt ggt ggt aac-3'
W257A:	Mgm101W257A-P1	5'-aga aag aag aaa att <u>GCG</u> tta aga aag gac aga-3'
	Mgm101W257A-P2	5'-tct gtc ctt tet taa <u>CGC</u> aat ttt ctt ctt tct-3'
R259A:	Mgm101R259A -P1	5'-aag aaa att tgg tta <u>GCA</u> aag gac aga caa gtt-3'
	Mgm101R259A-P2	5'-aac ttg tet gtc ctt <u>TGC</u> taa cca aat ttt ctt-3'
K260A:	Mgm101K260A-P1	5'-aaa att tgg tta aga <u>GCG</u> gac aga caa gtt gaa-3'
	Mgm101 K260A-P2	5'-ttc aac ttg tet gtc <u>CGC</u> tct taa cca aat ttt-3'
Y266A:	Mgm101Y266A-P1	5'gac aga caa gtt gaa <u>GCT</u> cct tat aaa tag tca 3'
	Mgm101Y266A-P2	5'-tga cta ttt ata agg <u>AGC</u> ttc aac ttg tet gtc-3'
Y268A:	Mgm101Y268A -P1	5'-caa gtt gaa tat cct <u>GCT</u> aaa tag tca ata tgc-3'
	Mgm101Y268A -P2	5'-gca tat tga cta ttt <u>AGC</u> agg ata ttc aac ttg-3'
K269A:	Mgm101K269A -P1	5'-gtt gaa tat cct tat <u>GCA</u> tag tca ata tgc gaa-3'
	Mgm101K269A -P2	5'-ttc gca tat tga cta <u>TGC</u> ata agg ata ttc aac-3'
K251A/ R252A/ K253A	Mgm101K25123-P1	5'-gaa cat gtt acc acc <u>GCG GCA GCG</u> aag aaa att tgg tta-3'
	Mgm101K25123-P2	5'-taa cca aat ttt ctt <u>CGC TGC CGC</u> ggt ggt aac atg ttc-3'