

Supplementary data:

Dense cataract and microphthalmia (*dcm*) in BALB/c mice is caused by mutations in the *GJA8* locus

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Table 1. Sequence information of the primer pairs used in the study.

Primer Name	Primer sequences		Size in base pairs	
	Forward primer	Reverse primer	Balbc	C57BL6
D1mit14	gcc aga cag ggc tac att gt	aga ctg aac tct ggc ctc ca	198	180
D1mit65	cta acc cct ata cac ata ctg ccc	ccg ttc aga ctt gaa tac aga cc	212	180
D1mit155	atg cat gca tgc aca cgt	acc gtg aaa tgt tca ccc at	216	252
D1mit94	cga ctt ccc ttg atg tcc at	ttt gtg ttg tgc agt ctg tct g	216	156
D2mit48	gct ctg cag aag atg ctg c	gct gag acg cag agt cgc	104	134
D2mit102	tat ttc cct gtc act cct ccc	tgt ctt tat gct cag aca tac aca	200	162
D3mit14	att gcg gtt aaa gtt tgc tt	tcc tgc aaa ttg tcc tct ga	198	179
D3mit65	cat cca tac tgg aca aag aga cc	cat ctg cat ata tcc cca aaa	88	124
D4mit12	gct tgc tt agg agt gtg cc	tat ttg ctc tcc att tcc cc	168	198
D4mit97	acc tca ttt ctt ctt ttc tct agg g	aaa ttt tct gca gaa gaa att gg	124	136
D4mit54	ctg cca tcc tgt agt ttc act g	acc ccc aca tat gtc tcc ct	190	150
D5mit24	cac ttg cca cac agc agg	cgt gca tgc act agt gtg tg	198	174
D5mit95	tgt tct tgt cca tgt ctg atc c	aac caa agc atg aaa cag cc	132	116
D5mit79	atg cta aaa aaa agg cta agt tca	cag taa ata gca ggt gtt cat gg	136	106
D6mit25	aca cgc cca gag gat gag	gca cac gag tcc ctc tct tc	116	130
D6mit39	ctt gac ttc ccc agg tat gtg	ttg act gcc ttt ttt tgg	118	146
D6mit8	aca cgc cca gag gat gag	gca cac gag tcc ctc tct tc	190	164
D7mit96	ttc ttc ttg ggc ttt cct ca	aac ata tgc cct tgc tca cc	108	78
D7mit68	ctc cca cac agg gtc ttt gt	gat acc caa agt aca cct ctg tca	94	188
D8mit14	ttt tca cac tca cgt gtg cg	gtc tct cct tcc tgg cgc tg	167	142
D8mit84	ttt ggt ttg aca att gaa ggg	aca acc cac ctc cag tct ca	162	148
D8mit94	gtt ggg gct ctg ctc tct c	cac ata tgc ata cat ata cat aca cgt	130	156
D8mit65	ctc cta gca tet ata tcc cat ca	ctc tca tat cca tat gga gga agg	280	234
D9mit4	tgc tga gca agc tat gag ga	gac agc cca tca cag cta ca	138	124
D9mit18	tca ctg tag ccc aga gca gt	cct gtt gtc aac acc tga tg	213	180
D9mit67	atc tcc tcc ccg aac tgc	aga act gcc ttt aac ttc agt tgc	136	124
D9mit11	tca ctg tag ccc aga gca gt	cct gtt gtc aac acc tga tg	116	74
D10mit80	caa aaa aaa ccc tga ttc tac ca	gtg tgc ata tgg cag taa ctt tg	144	158
D10mit95	gag aag tca ctg gga gct gg	ttg cca ggt tgc tct tct tt	167	201
D11mit20	cct gtc cag gtt tga gag ga	ctt ggg agc ctc ttc ggt	150	116
D11mit50	gaa agg ggg cag aga gtc tt	tgt aca act tga ctg ttg atc aca	144	176
D11mit41	ctg cta aag tgg ggt taa atg c	cga ctg agc aag ttg tat ttc tg	178	136
D12mit34	gac cac cag ggc tat tac aca	tgc caa tct tca ctc atg tac c	188	174
D12mit83	aga ctg tgg aaa att aaa aca cag c	gtg cac aca tat aca tgc aaa ca	121	148
D12mit101	gct ttt cct tat caa gat atg cg	gca gca gaa aga gag gga aa	116	170
D13mit16	gaa agg ggg cag aga gtc tt	tgt aca act tga ctg ttg atc aca	178	210
D14mit37	ctg cta aag tgg ggt taa atg c	cga ctg agc aag ttg tat ttc tg	94	136
D14mit60	gac cac cag ggc tat tac aca	tgc caa tct tca ctc atg tac c	112	136

Table 1 (contd.)

Primer Name	Primer sequences		Size in base pairs	
	Forward primer	Reverse primer	Balbc	C57BL6
D15mit63	aga ctg tgg aaa att aaa aca cag c	gtg cac aca tat aca tgc aaa ca	124	146
D16mit4	agt tcc agg cta ctt ggg gt	gag ccc tca ttg caa atc at	149	132
D16mit5	cgg gga tca tcc cta aaa ac	tcc cca att cct ctt gtg tc	132	156
D16mit34	ccc agt agg aag gag acc ct	tgg gaa tat aca tcc aaa agc a	110	138
D17mit39	cct ctg agg agt aac caa gcc	cac aga gtt cta cct cca acc c	92	110
D17mit57	gct gat aaa cgt ggt ggc tt	ggt tag tgg ctt caa gtc acc c	320	300
D17mit66	ggc ttc cac aca tga ttg c	ttc tgg gtc cat cat cac aa	108	132
D17mit22	gct gat aaa cgt ggt ggc tt	ggt tag tgg ctt caa gtc acc c	183	157
D18mit49	tta ctc act ttt cca ctt gct agg	ctg cac aca cca ctt gcc	128	152
D18mit68	gcg tga ggg ttt tgt ttg tt	aat act tcc aga acc tta gac ccc	95	113
D18mit51	aac atg gtg gaa acc aac tac c	aag gga aag tca cca cat gc	154	198
D19mit19	cct gtg tcc ata cag gct ca	acc ata tca gga agc acc atg	116	142
D19mit34	cag tga aag aac ctg tgc ca	ttg tat gtg tgc tga gca tct g	198	156
D19mit10	gcc ttt aag cca gtc aag aca	cca gtc tgg act tgt gaa tga	190	152

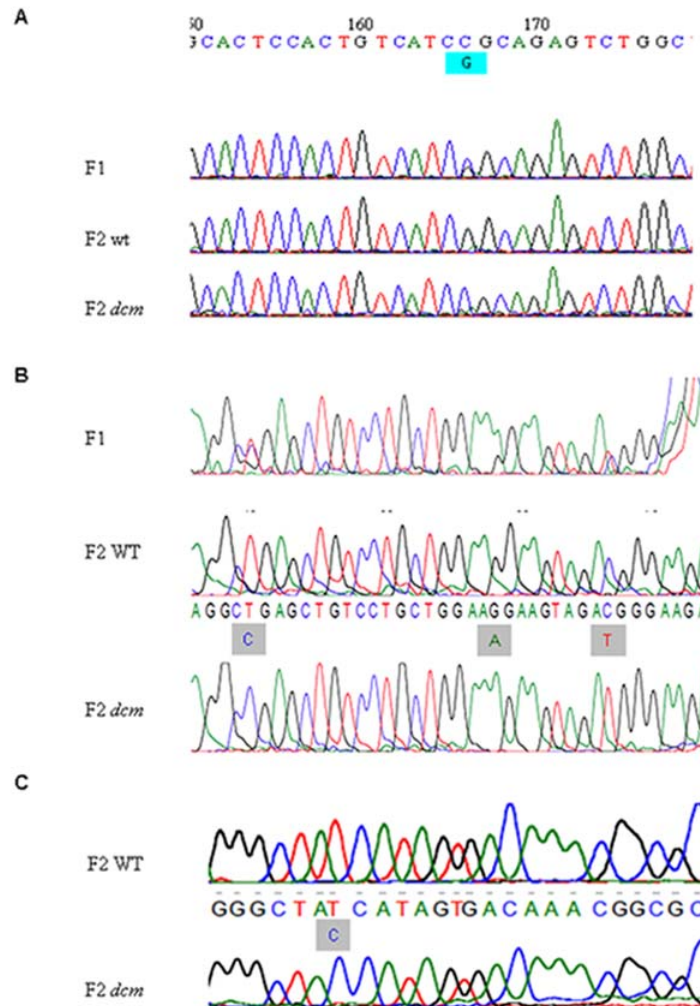


Figure 1. The nucleotide sequence and the chromatogram of the region of *GJA8* and *GJA5* from the F₁, F₂ with the *dcm* mutant phenotype and the wild-type phenotype. (A) *GJA8* mutation (G64C), (B) *GJA5* mutations (C393T, A411G, T420C), (C) *GJA5* (C1011T).