

Rescuing ocular development in an anophthalmic pig by blastocyst complementation

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Appendix

Appendix Table S1

Appendix Table S2

Appendix Table S3

Appendix Table S1. Summary of primer sequence information used for PCR and quantitative RT-PCR.

Gene	Primer sequence (5'-3')	Product size (bp)
<i>MITF</i>	F:TCCCTCTCAAGGTGCTCGTC R: CACCACCACCAGCGATTGTA	471
<i>MITF-B</i>	F:CTCAAGGTGCTCGTCCAGAT R:GGCAGTAACATGTGTCACC	418
<i>GFP</i>	F:CACAAGTTCAGCGTGTCCG R:CTCGATGCGGTTACCAG	300
<i>MITF-qPCR</i>	F:CCAGACATGCGCTGGAACAA R:CAAATGCCGATTGGCGTGC	135
<i>KIT</i>	F:TAAGTGAAAGAAGTCAATCTGAG R:GGCAGTCATGTAACATCACC	152
<i>ZO-1</i>	F:CCCGATTCTAAGCAGGGTG R:CCCATAACCACTGGTTCTGCT	212
<i>RPE65</i>	F:CACCTGTTTGATGGGCAAGC R:GCCCGTACGTAAGCATCAGT	101
<i>Bestrophin</i>	F:GCTCATGCGCTATGCCAAC R:GATTCGACCCCAATCCAGG	223
<i>PAX6</i>	F:CAACCTGGCTAGCGAAAAGC R:GCTGGCAGCCATCTTGAGTA	152
<i>PEDF</i>	F:AGAGAGCCTCACCTCTGAGT R:CCTGCACAGACTTCGTGAGTT	122
human <i>ZO-1</i>	F:CAGCCAGCCTGCTAAACCTA R:GCCATCTCTTGCTGCCAAAC	130
human <i>RPE65</i>	F:CATGGAGTCTTTGGGGAGCC R:TTCCAGCAGCAGAGATCCAC	196
human <i>Bestrophin</i>	F:TCAGCACCGCAGTCTACAAG R:TCTGGAGCAGGATAGGGTCC	198
human <i>PAX6</i>	F:CAACCTGGCTAGCGAAAAGC R:GCTGGCAGCCATCTTGAGTA	286
human <i>PEDF</i>	F:TATCACCTTAACCAGCCTTTCATC R:GGGTCCAGAATCTTGCCAATG	82
<i>GAPDH</i>	F:GCAAAGTGGACATTGTCGCCATCA R:AGCTTCCCATTCTCAGCCTTGACT	124

Appendix Table S2. Production efficiency of E44 chimeric fetuses by complementation of the embryos derived from the *MITF*^{L247S/L247S} cell line with the blastomeres derived from the LW cell line.

Host cell line	Donor cell line	No. of embryos	No. of recipients	Pregnant recipients (%)	No. of E44 fetuses	No. of E44 chimeric fetuses (%)
<i>MITF</i> ^{L247S/L247S} fibroblast	LW Fibroblast	3754	16	3 (18.75)	4	1 (25%)

Appendix Table S3. Production efficiency of full-term chimeric piglets by complementation of the embryos derived from the *MITF*^{L247S/L247S} cell line with the blastomeres derived from the Bama GFP-labeled cell line.

Host cell line	Donor cell line	No. of embryos	No. of recipients	Pregnant recipients (%)	No. of piglets	No. of chimeric piglets (%)
<i>MITF</i> ^{L247S/L247S} fibroblast	GFP-labeled Fibroblast	1671	7	3 (42.86)	7	1 (14.29%)