S1 Table A: Primers and conditions for microsatellite genotyping.

Gene	Target	Position	Product (bp)	T_A	Cycles	5'->3' Sequence
D1Rat122_for	RGD ID	Chr 1	223 for Dark Agouti (rESC)	50	30	CTGCTCCACCTGCCTGTATT
D1Rat122_rev	38544		248 for Fischer344 (riPSC)			TCCCTTTGCAATAGACAATGG
D2Rat250_for	RGD ID	Chr 2	158 for Dark Agouti (rESC)	52	30	GTCCCTCTCCTGTCCCTCTC
D2Rat250_rev	41470		180 for Fischer344 (riPSC)			GAAGTCTGAACGCTCATGCA
D3Rat17_for	RGD ID	Chr 3	136 for Dark Agouti (rESC)	50	30	TCATTTTCCTTCCTCTCTCTCA
D3Rat17_rev	36717		174 for Fischer344 (riPSC)			AAGACAAAATGCTGGAGGGA

S1 Table B: Primers and conditions for semiquantitative RT-PCR.

Gene	Target	Position	Product (bp)	T_A	Cycles	5'->3' Sequence
rRex1_for	GI:1046864754	697	367	60	30	TTCTTGCCAGGTTCTGGAAGC
rRex1_rev		1063				TTTCCCACACTCTGCACACAC
rNanog_for	GI:672050892	1053	144	66	30	GCCACTAGGGAAAGCCAGGCG
rNanog_rev		1196				AAGAAAGCTGACCCTGGCCCTG
rOct4_for	GI:260269517	178	159	55	30	CCTGGCTAAGCTTCCAGGGGC
rOct4_rev		336				CCACGCCAACTTGGGGGACTA
rGATA4_for	GI:1046861721	778	146	62	33	GCTTCTGGAGCCACCTCGGG
rGATA4_rev		923				AAGGAGAAGCGCGGGGACAC
rNkx2.5_for	GI:16758951	383	159	58	34	GTGACCCTGACCCCGCCAAG
rNkx2.5_rev		541				AGACCTGCGCCTGCGAGAAG
rα-MHC_for	GI:1046861082	182	276	60	30	GATGCCCAGATGGCTGACTT
rα-MHC_rev		457				GGTCAGCATGGCCATGTCCT
rß-MHC_for	GI:672078038	5812	200	62	30	CGGAGGAACAGGCCAACACCA
rß-MHC_rev		6011				GTCTCAGGGCTTCACAGGCATCC
rMlc2v_for	GI:386869342	459	158	62	30	CCTGACGTCACCGGCAACCTT
rMlc2v_rev		616				TGGGATGGTGAACACCCGCAG
rMlc2a_for	GI:672076613	33	133	55	30	GGGCCTTTGGGTGATAAGGTTC
rMlc2a_rev		165				CACGTTGAGCCTGCTTGGTG
rANP_for	GI: 158341690	157	268	62	30	ATACAGTGCGGTGTCCAACA
rANP_rev		424				AGCCCTCAGTTTGCTTTTCA
rCx40_for	GI:9506724	876	171	54	30	TCCTGACTTCAACCAGTGCC
rCx40_rev		1046				GGCTTCTGGCCATACTGTGT
rCx43_for	GI:33285446	133	119	55	30	AGGAGTTCCACCAACTTTGGC
rCx43_rev		251				TGGAGTAGGCTTGGACCTTGTC
rCx45_for	GI:1046848581	1188	112	60	30	AAGAGCAGAGCCAACCAAAA
rCx45_rev		1299				CCCACCTCAAACACAGTCCT
GAPDH_for	GI:18042882	555	352	50	30	GGCCAAGGTCATCCATGA
GAPDH_rev		907				TCAGTGTAGCCCAGGATG

T_A: Annealing temperature
RGD ID: Rat Genome Database Identifier