

Appendix 1: List of genes/locu and flanking markers

Genes	Position (bp) on chromosome	Microsatellite	Forward primer forward (5'- 3')	Reverse primer reverse (5'- 3')
CRB1	194'065'942	D1S412	TTCCACAGTCATTTGAGTCC	TCTCTAGAGAAGCAGAGCCA
	197'170'592			
	198'620'398	D1S413	GCCAAGCCTGAGATCAAAAT	ACTTGAACAGATTGGGATTG
ABCA4	91'558'849	D1S435	GGCCACATGGGAATTTTCT	AGCAGTTCAAGGCCACAGT
	93'335'593	D1S2868	AGGTATAATCTGCAATAAAAACTT	AAAGTAAACAATATGAAGCCAC
	94'458'391			
USH2A	214'538'065	D1S419	AGCTGGTCCTGTCTGGAT	CGCATGTAAGTTGGGG
	215'796'236			
	223'816'864	D1S213	AGGAGCAGGCTTTAAACAT	TTTGGGGGACATAACATGTA
RP29	175'688'153	D4S1539	TATGTGGCATGTGACATTAAGTGG	ATTCTCAGTACATATTGTTGTGTGG
	180'168'487	D4S2417	AGCACAAGATTCTCTAAGCCC	AAAGCCAAAAGATGATGCAA
CERKL	179'656'363	D2S324	AGTTGGTTTCTTCGTGCATA	GGGTGTTTATGGCTGATGTA
	182'401'403			
	183'034'487	D2S364	GCTAATAATCTCTATGGGAATGCAG	AGGATTCTGACAGCAGCATAAC
CNGA1	44'190'042	D4S1574	GTCTAACACTCTTGTGTTGCAGG	CGGCACTCATATTCAATAGTATGG
	47'937'994			
	53'726'716	D4S2971	GGTAAAATAATGATGTNGGCTAAAG	GGTAATGAAAATCAAGCCCA
CNGB1	53'670'735	D16S415	CCAGTAATGTTATGTAAGTCAATGC	TAGCCACTGTACCCCAGC
	57'917'847			
	58'925'734	D16S494	GCTCGCTTAGTTTAAGCCTT	CTGCCATGTAACAGATGTTATG
EYS	60'989'394	D17S948	GTCTCTGTCCTTAGGGAGTTTA	TATCTTTGCCCATTTCTTG
	61'436'306	D17S944	GCCCAGGAGGTTGAGACTT	CCTCCATAGGAACGGCT
	64'429'879			
FAM161A	62'051'989			
	67'213'610	D2S2368	GTATTTGAATCTTAAAGCATCTTC	CGACCATAGCCTGGTG
	75'342'19	D2S286	GTCTCAGGGAATAGGAAGGA	ACTGGGCCAGTGATTGTTT

SAG	233'707'826	D2S206	ACTCCTGACCTTGTAATCCA	CTTTGTCCTCATGTGTTTATGC
	234'216'309	D2S336	AGACTTTGCTTCAAGAAAGACA	GGGCACTTGGACTTCTTATT
MERTK	235'777'100	D2S293	AGCAAGTGCCTATTTTGACA	CAGGGTAAGGGAATGAAAAT
	107'273'778	D2S160	TGTACCTAAGCCCACCCTTTAGAGC	TGGCCTCCAGAAACCTCCAA
NR2E3	112'656'056	D15S131	GAAAGGCACCTCATCTCG	TTAAAACTCTGGAGCAGCG
	112'998'491	D15S980	ACCATCTCCAACTGCG	GTACCTCAACCACAGGG
PDE6A	71'183'851	D5S393	TTCTACCTGNCCTTTCCTCT	CATTCCTCATTCTCATTCC
	72'084'977	D5S2090	CATGGGCATGTTTCAAAT	AGTACCTCCTTAGTAACTCTGGGC
PDE6B	73'113'373			
RGR	135'701'338	D4S2936	CACTCAAGCCTGGGGG	TGGCACATCACCAACAAC
	147'230'043	D10S1696	TCCTGGGTGACAGAGTGA	GAGACAGCATTTCCATTATGA
RHO	149'237'519	D10S1765	CTTACATAGTGCTTTCTGCGTGC	ATAAGGACTGAGTGAGGGAGTGTG
		D3S1589	GCCCTCCCCTTTATAGAGAT	AGATGTGACACCTCAGCACT
RLBP1		D3S1292	GGTTTATGTTGGCTTCATCA	CAAACAGATTCAAGAGGCAC
	88'832'472	D15S979	TGCTGCCCAACATCCT	CAGTGCTACATCCACGGAA
TULP1	89'753'098	D15S996	GAAGGATGGTTTGAGCCC	ACTTAGGAATAATCATTACTGGCAT
	90'987'429	D6S1666	CTGAGTTGGGCAGCATTTG	ACCCAGCATTTTGGAGTTG
	32'547'519	D6S291	GTCTAAAATATCCATCCGGC	AATTGTGGTGATGGTTTCAC
	35'465'651			
	36'265'916			