

Appendix 1. Primers, annealing temperature, LR-PCR fragment size and fragmentase digestion times of 12 common genes associated with adRP.

GENES	NCBI ReferenceSequence	Exons in LR-PCR frag.	Primers 5'- 3'	Fragment (bp)	T ^a annealing (°C) Buffer (1-3)	Fragmentase reaction time (min)
IMPDH1	NG_009194.1	A: 6 exons	F:GGCCGCGCGGGTGTTTATGT R:GGAGTCAGGCTGGGGGTTG	5858	65 (1*)	35
		B: 7 exons	F:CTCCCAAACCTTCTCCCAACAA R:CAGGCTGCAGCAAGAAAGACCT	5952	59 (3)	45
PAP1	NG_012968.1	5 exons	F:GCTCTTCTCAGTGATTGCTTGCT R:CAGCAGGGAGGACAACGATGAA	5731	59 (1)	45
PRPF3	NG_008245.1	A: 3 exons	F:GTGTAGTATTGAGTCTGTTT R:TCCACAATAAATACAGACCCATG	3655	50 (1)	45
		B: 3 exons	F:GGTACTGTTTTCTTCCCTTC R:ATAATAAAGTACACAATAAATGCTA	3153	50 (1)	45
		C: 5 exons	F:CCTGGGCAAGAAGAACGAAACTC R:GCTTTTAGCCACAATGATTCTGC	6596	65 (2)	35
		D: 4 exons	F:TTTTACTTGCCACTCCATTGAGG R:GTGGGAGGGGTTGGGAAATAGA	7120	57 (1)	35
PRPF8	NG_009118.1	A: 11 exons	F:GATGCACTGTGTGGCGGACTG R:AGTCATAGTCTCTCCAAATAGGTC	6750	55 (1)	35
		B: 11 exons	F:CCCCACCTCTGCCAGGTTTC R:GGACGAAGTGAAAGGGGTGTGAA	4769	61-64 (1)	25
		C: 13 exons	F:GCCAGCCTCATTTGTGTTTTGC R:TGACCTCAAATGATCTACCCACCTT	7130	62-64 (2)	35
		D: 6 exons	F:GAAGTGACCAAGGGGAAGGGATC R:CAAGCCATCAGGAGGTCAACAAC	3398	59-61 (1)	45
PRPF31	NG_009759.1	A: 7 exons	F:CCTGTTGTCGTGGAGCCTGCAT R:ACGTCCCATGCCACCCTGTTC	6659	63,5-65 (1)	45
		B: 6 exons	F:TTGCCCCGCTGTTACCTCTGTCTGT R:CCCTGCCAGAACCCTGATCCTA	5114	57 (1)	35
PRPH2	NG_009176.1	2 exons	F:GAGGCAGGGGTTGGGAGGAAGT R:CGGAGTTGGATGAGGGGAGAT	6475	62-63 (1)	35
NR2E3	NG_009113.1	8 exons	F:TGCAGGTGTGGCCAGTTGATC R:CTCATTCCTTCAGTGTCCCAAA	7832	60 (3)	45
TOPORS	NG_017050.1	1 exon	F:TGCATTTTTGTTGAGACTAT R:AGACTGCAGTAGACGACATT	3086	50-53 (1*)	25
RP1	NG_009840.1	3 exons	F:TATGGTGCTGTGATTCTGGAGA R:AGGTTATCTAGTCCGTATTCTGCAC	9526	50 (3)	45
CRX	NG_008605.1	3 exons	F:CCCCGAAGATCATGATGGCGTAT R:AAGGGGTGGTCTCTGTAAGCTGAAC	5694	58,5 (1*)	35
CA IV	NG_012050.1	7 exons	F:CACTTCACACCCTTCCCTCTGCTG R:CTGGGAAGGCTAAGACCGGAAG	4215	58,5 (1*)	35
RHO	NG_009115.1	5 exons	F:ATGAATGGCACAGAAGGCCCTAACT R:GTCTCCCATCCCTACACCT	5038	55-60 (1)	35

* 5% DMSO

Total bp amplified: 113751. Exons amplified: 116 (25914 bp)

Exons 1 of: CA4, IMPDH1, PAPI, PRPH2 and exon 2 of TOPORS are not included.