Appendix 1. Primer sequences and expected product size for PCR and sequencing of coding exons.

Gene	**Exon**	**Forward primer 5'>3'**	**Reverse primer 5'>3'**	**Product size**
HSPB7	1	CAGGGACAGTCGGCCTTAT	CAGACGTCCCCTCCCTGT	376
	2	CTTGCCCCAAGAGAAGGAG	GGATGGTAAGGGGGAGTAGG	296
	3	GGGGTTAGAATGGGGAGAAG	GGCTAGAACCTGGGCTGAG	374
FBXO42	2	TGGCTCACAAGTGGTATTGG	CCGGGTAGTATCGTCTAATGC	549
	3	AGACACAGTTTTAATAATTTGATGGA	CCACCAAACAAGTTTCTGGA	253
	4	CTTGGAGACAAGAGGCTGGT	TGAGTCCCAGTAACCCATCC	396
	5	CGGATTGTTGTGAGATCCTG	TCTCAAAGGGACTCTTGACACA	298
	6	CCCAACAAATCTCTGCTGAA	TTTTAAACCTGTTATTCCCAGGAG	296
	7	TGGTGCAAGTTTGCCAGAT	TTGGCATCTTACCTGACTCC	294
	8	ATTCACAGGGATCAGAATTGA	AGCAGAAACAAAGGCCAGAA	389
	9	GGAACGCATATCACACCTGA	TGTTCACCTCTTTTGTGACACC	294
	10a	TCATAGAAGAGTGTGAGCACTGG	CATACTTCCCCCAACTGTCC	581
	10b	GGTGGCTCTTCTTTGGACAG	ATGGGCACTGTTTCTCCACT	449
	10c	GGCCTCTGCAGCACTAAGTC	TCTTGTCCATGAGTCCTCCA	377
	10d	TGCAGATGTACGTGCTGGAC	TCTTGGTCTAGTTACCAGCAAGG	542
EFHD2	1	GGCCCAAGTCCCACCTTC	GTCTGGGTTCGGGGAAGC	558
	2	CTTCCAACAGTGACGGGATT	CTGCTGTTCAATGGCAATGT	400
	3	GCGAGACCCAGCTCACTG	GGAGTCAGCTCCCATCTCTG	392
	4	GCGACAGAGCGAGACTTTG	ACCCCTGAACTTGCTCCATT	398
ZBTB17	3	GCCTGGGACTTTAGGAGTGA	CCAAAAGGTGGGAGGAACTT	549
	4	GTCCTGCTGCTGAGTGGAGT	GGCCAGATGAGGAAACTGAG	375
	5	GTGGGTGCCCTGTGAATAAT	GCAGCCCTCACTACCCTGT	381
	6	GAGCAGACACAACAGCCTTG	GGTGACTCCAGGTGGGACTA	391
	7	GCCATTTACTGTCCCTTCCA	TGAACTCCTTCCCACAGTCc	476
	8	GCGAGGTGAGGGAGACTATG	CAGCCGTAGGGCTTCAGAG	362
	9	GAGAAGACGCACAGGTACTGC	CTGGGTGAACAAGCTGATGA	539
	10-11	TGGCAAGCCTGAGAGTCAAT	ACACACTGGCATGGCTTCT	500
	12	ATTCACACAGGTGGGTGGTG	AAGCCCCCAGTTTGTCTTCT	284
	13	TCTGGTCCTAGGGGTCCTTT	GGGGTCCTCATTTGAACAGA	375

	14-15	CTGGGCAAACGAGTCATTG	CTTCCTGCACTTGCTTCACA	489
	15-16	CTTAGGCCCTGCGACTCTG	ACAGGGACCTATAGGCAGCA	598
CAPZB	1	GCCGCTCTCCATACTTGG	ACTGCCACCCAAGTCGTC	440
	2	TTGGGTTTTAGAATGCCTTG	GTGTTGTGAATTCTGCATGG	281
	3	GACCACAATATGGCTGCAGTA	CAAGGTCCCCGTGCTCTG	296
	4	CCTCCGAGATTTCAGATAGCC	GGAGGCTCCCAATTTTAGTT	394
	5	AAGGATCGGCTCCCATAACT	GAGATCACAGCATCCCCCTA	378
	6	GGGTGACAGAGCGAGACTTT	TTACCCTAAATGGGGCACCT	368
	7	TGAAGTCGGTTTGTGCTTCA	ATATGAGGCCAGGGCAAAAT	393
	8	ACTGATGCCCCAGAGCAG	GCCCAAGACCACACAGCTA	298
	9	TTTCTGAGAGGGGCAGATG	TGCAGCTGTTATGTGACCTG	368
FBLIM1	3	GTGTGTCTGGGTGGCAATC	CTCTGCCTCTGACGTGGTCT	360
	4	GTAAAACCCTCCCAGGTCCA	CAAGGGGACCAAGGGATT	294
	5	ACCACCCAGATGAGGAACAG	CTACCTGGAAGCCCATGCT	244
	6	GGTGCCTGGGTACAGTCCT	TTCTAAGTGCTCAGCTCACTGC	284
	7	TGCAGGCCTCTCCTGTACTT	CACCCAGGACTCAAGCTCA	388
	8	TCTGTGGTTGTGGCATGAAC	GTCCAAGCAACCCAGCTAAG	240
	9	AGTGAGTCCCTCCCCTGTG	GGCTCAGAAGGAAAGTGTGC	286
ALDH4A1	1	AATATAGTGGGACTTTGGCTGA	GACGCCCAGTGACTCTCA	293
	2	GTAGAGGGGCTGGGGTCT	CGCTATCTCAGGGCTGCT	243
	3	TCTGTGGACTCTGCGTTAGG	GGGAGGGGCACTATAAAGG	294
	4	GGAAAACCGGCTCTGAGT	GGACTCCCTCAGTGTCAGC	294
	5	CCAGGGAGACAGGCATTGT	GTCCCCAAAAGGGCTTAGG	397
	6-7	GCGTCAGATGTGAGAAGAGG	TGACTAGGCTGAGACCCAAG	477
	8	GAGGGACAACCATGCTGTAG	AGTAGAGTCCGTGCATGACC	390
	9	TCCCCGTAGTCTTGGAATG	GCATCCCTCATCACAAAAAG	393
	10-11	GGCGTAGGTGGTGTTTTG	TCTCTTCCTCCCTCTTCCAC	555
	12	CTTCAGGTGCAGGTGTTTC	GCATTCCCTTTTAGGGTCTC	381
	13	GACCCTTCTTGCAGACACTG	GGGGACAGAGAGAAGGTAGG	379
	14	CTCCTGTTGAACCTGGAAAG	CACGAGTTTGCTGAAAGGAC	393
	15	CTACACTGCTGGTCCGTTG	AGCACGATCTCAAACCAGAG	399
MFAP2	2	AAAGGTGAGCTCTGCTGTCC	TAACCCTACTCCTCAGCCCC	201
	3-5	CCTCCACTCTCCAGAAGCG	TTGACAGGGTGGGGAgg	631

	6	GGAGAGGTGACTCCCCTTG	TACTCCACCCCAACTTCAGG	175
	7-8	CTCAGGTGGGTGAGGCTG	GGCTAGGTGGCCAGATAATG	596
	9	CAGGAGCCTCTCAGGACAGT	CACACCCGCATCATTATCTG	810

Where an intron was small enough, exons were combined into a single amplimer. Where an exon was too large, it was sequenced as overlapping fragments (denoted by lower case letters after the exon number).