

Supplementary table 1 PCR amplification and DGGE conditions

Exon	Forward primer*	Reverse primer*	PCR annealing (°C)	Denaturing gradient (%)	Electrophoresis (time, volts)
MSH2 Ex. 1	CCAGGAGGTGAGGAGGTTTC	(b)GTCCCCTCCCCAGCACGCGC	54	40–90	5h15/160V
MSH2 Ex. 3	TGAACATGTAATATCTCAAATCT GTATGTTCAAGAGTTTGTTAAAT	(b)TAAAAAATAAGTAAATTA AAAAG (b)CTGGAATCTCCTCTATCAC	54	30–80	3h00/160V & 8h00/160V
MSH2 Ex. 4	TATTCCTTTTCTCATAGTAGTTTA	(b)TTGTAATTCACATTATAATCCAT	56	10–60	5h30/160V
MSH2 Ex. 6	(a)GCTTGCCATTCTTTCTATTT	AAAAC TAACGAAAGTATAAACTAA	52	20–70	3h00/160V
MSH2 Ex. 7	(a)TTAGTTGAGACTTACGTGC	AAAATCACTTGTTACCTTCA	45	20–70	3h00/110V
MSH2 Ex. 8	(a)TTTATTTGTTTGTTTACTACTT	GCTTAAATTA AAAAAGTATATTGC	52	10–60	3h00/130V
MSH2 Ex. 9	(a)AGGATTTTGTCACTTTGTTCTG	TTCCAACCTCCAATGACCCA	58	20–70	3h00/160V
MSH2 Ex. 10	TGGTAGTAGGTATTTATGGA	(b)TAAAAATATAATAACGACTTGC	52	10–60	3h00/160V
MSH2 Ex. 11	(a)TTAATATTTTAAATAAACTGTTA	CCAAAAGCCAGGTGACATTC	50	10–60	3h00/110V
MSH2 Ex. 12	(a)TATTATTTCAGTATTCTGTGTAC	CAAAGCCCAAAAACCAGG	54	20–70	8h00/160V
MSH2 Ex. 13	(a)AACTTGCTTTCTGATATAATTTG	GGGACTAGGAGATGCACCTA	56	30–60	3h00/160V
MSH2 Ex. 14	(c)TTATGTGATGGGAAATTTCA	AGTTTCCATTACCAAGTTC	50	20–70	3h00/130V
MSH2 Ex. 15	(a)CCCCTCACGCTTCCCCAAA	TAAACTATGAAAACAACTGACAA	56	10–60	3h00/160V
MSH2 Ex. 16	TTAATTAATAATGGGACATTCA	(b)TATTACCTTCATTCCATTAC	50	10–60	3h00/160V
MLH1 Ex. 1	(a)AGGCACTGAGGTGATTGGC	AGTCGTAGCCCTTAAGTGA	50	30–80	5h00/160V
MLH1 Ex. 2	(a)AATATGTACATTAGAGTAGTTG	TGCTACTTTGAGGTTTTAC	50	20–70	3h00/110V
MLH1 Ex. 3	(a)TTTACTCATCTTTTGGTATCTA	TCACAGGAGGATATTTTACA	50	20–70	3h00/110V
MLH1 Ex. 4	CTTTGGTGAGGTGACAGTGG	(b)GATTACTCTGAGACCTAGGC	58	20–70	3h00/160V
MLH1 Ex. 5	(a)GATTTTCTCTTTTCCCCTTGGG	CAAACAAAGCTTCAACAATTTAC	58	20–70	3h00/160V
MLH1 Ex. 6	(a)GGGTTTTATTTTCAAGTACTTCTATG	GCTCAGCAACTGTTCAATGTATGAGC	58	20–70	3h00/160V
MLH1 Ex. 7	CTAGTGTGTGTTTTTGGC	(b)CATAACCTTATCTCCACC	50	20–70	3h00/160V
MLH1 Ex. 8	(a)AATAAATCCTTGTGTCTTCTG	TAAACCAAGATAATAAATGTA AAAAG	50	20–70	4h00/160V
MLH1 Ex. 9	(a)CAAAAAGCTTCAGAATCTC	CTGTGGGTGTTTCTGTGAGTGG	47	20–70	3h00/160V
MLH1 Ex. 10	(a)CATGACTTTGTGTGAATGTACACC	GAGGAGAGCCTGATAGAACATCTG	58	20–70	7h00/160V
MLH1 Ex. 11	GGGCTTTTTTCTCCCCCTCCC	(b)GTAGCTGGATGAGAAGCGCC	58	20–70 & 40–90	3h00/110V 18h00/80V
MLH1 Ex. 13	TGCAACCCACAAAATTTGGC	(b)CTTTCTCCATTTC AAAAACC	50	20–70	7h00/160V
MLH1 Ex. 14	TGGTGTCTCTAGTTCTGG	(c)CCATTGTTGTAGTAGCTCTGC	50	30–80	5h00/160V
MLH1 Ex. 15	CCCATTTGTCCCAACTGG	(b)GAAGTGAAAAGGATCTAAAC	50	20–70	3h00/160V
MLH1 Ex. 16	CATTTGGATGCTCCGTTAAAGC	(b)CACCCGGCTGGAAATTTTATTTG	58	20–70	3h00/160V
MLH1 Ex. 17	(a)CAGCATTATTTCTTGTCC	AATGCTTAGTATCTGCTTGA	50	30–80	3h00/110V
MLH1 Ex. 18	(a)TAAGTAGTCTGTGATCTCCG	ATGTATGAGGTCTGTCC	54	20–70	3h00/160V
MLH1 Ex. 19	GCAAACAGGGAGGCTTATGA	(b)GAGAAAGAAGAACACATCCC	50	20–70	3h00/160V

*GC clamps are: (a) CCCC GCCCGCCCCGCCCCGCCCCCGCCCCCGCCCCCTCCCGGCCCGCCCCCTGGCGCCCCGC, (b) CCCCACGCCACCCGACGCCCGAGCCCGACCCCGCGCCCGGCCCGCCCCGC, and (c) GCCCCGCCCGGCCCGCCCCGCCCCCGCCCCCGCCCCCTCCCGGCCCGCCCCCTGGCGCCCCGCT.