

**Table S1.** Primers used in this study.

Primers	Application	Sequence	Hybridization temperature
D3S1611_up	Haplotype analysis	5' NED-CCCCAAGGCTGCACTT 3'	50 °C
D3S1611_dw	Haplotype analysis	5' AGCTGAGACTACAGGCATTTG 3'	50 °C
D3S3623_up	Haplotype analysis	5' VIC- CCCCATGTTGGTTAAAGGC 3'	60 °C
D3S3623_dw	Haplotype analysis	5' TCTCTGAACTGAAGTGACCTCCTG 3'	60 °C
D3S2369_up	Haplotype analysis	5' FAM- CTCTATCCTTAATAAGTGGGTCACA 3'	56 °C
D3S2336_dw	Haplotype analysis	5' AAATAGGGCCGTCCTTTG 3'	56 °C
D3S1609_up	Haplotype analysis	5' NED-TGCTCTACACTGTGGCTTAATG 3'	58 °C
D3S1606_dw	Haplotype analysis	5' ATATCCGTGGGCAAATGG 3'	58 °C
D3S1612_up	Haplotype analysis	5' VIC-GCTCTCCTCAGTGGAATTT 3'	58 °C
D3S1612_dw	Haplotype analysis	5' ATGTAGAAGAGGATGATCTCCC 3'	58 °C
D3S1298_up	Haplotype analysis	5' PET-AGTCTCAGTGCCACCCC 3'	55 °C
D3S1298_dw	Haplotype analysis	5' GAAAAATCCCCTGTGAAGCG 3'	55 °C
D3S3564_up	Haplotype analysis	5' FAM-AGCTAAACACAGTCTAACTGCAT 3'	58 °C
D3S3564_dw	Haplotype analysis	5' CCCACAGAGTGATAGGGA 3'	58 °C
MLH1_E5_up	Haplotype analysis	5' TCTCTTTTCCCCTTGGGATT 3'	55 °C
MLH1_E5_dw	Haplotype analysis	5' TGGAGTCCCAAGATATCCTC 3'	55 °C
MLH1_E8_up	Haplotype analysis	5' GTTTCAGTCTCAGCCATGAG 3'	55 °C
MLH1_E8_dw	Haplotype analysis	5' CTGTGGCGTGAATCATGTGT 3'	55 °C
MLH1_E15_up	Haplotype analysis	5' CATGAGTGGCAGCAAGCCAG 3'	60 °C
MLH1_E15_dw	Haplotype analysis	5' TCCATATGCAAATCATACAATACAGCA 3'	60 °C
MLH1_E3_CSCE_up	CSCE analysis	5' FAM-ATGGGAATTCAAAGAGATTTGG 3'	54 °C
MLH1_E3_CSCE_dw	CSCE analysis	5' GTTTGCTCAGATTTGCATAC 3'	54 °C
MLH1_E16_CSCE_up	CSCE analysis	5' HEX-GGATGCTCCGTTAAAGCT 3'	54 °C
MLH1_E16_CSCE_dw	CSCE analysis	5' GAAGTATAAGAATGGCTGTAC 3'	54 °C
MLH1_E3_up	Sequencing analysis	5' ATGGGAATTCAAAGAGATTTGG 3'	50 °C
MLH1_E3_dw	Sequencing analysis	5' GTTTGCTCAGATTTGCATAC 3'	50 °C
MLH1_E16_up	Sequencing analysis/SNuPE	5' GGATGCTCCGTTAAAGCTTG 3'	58 °C
MLH1_E16_dw	Sequencing analysis/SNuPE	5' GAAGTATAAGAATGGCTGTAC 3'	58 °C
MLH1_E2_exo_up	RNA analysis	5' AGGGAGGCCTCAAGTTGATT 3'	56 °C
MLH1_E4_exo_dw	RNA analysis	5' TCCATCAGCTGTTTTCGTTG 3'	56 °C
MLH1_E15_exo_up	RNA analysis/SNuPE	5' GCCAATTTGGTGTCTCAG 3'	56 °C
MLH1_E17_exo_dw	RNA analysis/SNuPE	5' CAAAGGGGGCACATAGTTGT 3'	56 °C