

Table S1: Oligonucleotides used for cloning and site directed mutagenesis reactions

Primer	Sequence (5' → 3')
ASPA_Clon_F	GAGGCGATCGCCATGACTTCTTGTACATTGCTGA
ASPA_Clon_R	GCGTCGGTCCGCTCTAATGTAAACAGCAGCGAATA
ASPA_SDM_70G_A_F	CTTTGGAGGAACCCATGGGAATA <u>A</u> AGCTAACCGGAG
ASPA_SDM_70G_A_R	CTCCGGTTAGCTT <u>A</u> TTCCCATGGGTTCTCCAAAG
ASPA_SDM_89T_C_F	GCTAACCGGAGTATTT <u>C</u> GGTTAAGCATTGGCTAG
ASPA_SDM_89T_C_R	CTAGCCAATGCTTAACCG <u>G</u> AAATACTCCGGTTAGC
ASPA_SDM_170C_T_F	CATTTATTACTAACCCCAGAGT <u>A</u> GTGAAGAAGTGTACCAGATA
ASPA_SDM_170C_T_R	TATCTGGTACACTTCTTCACT <u>A</u> CTCTGGGGTTAGTAATAAATG
ASPA_SDM_188G_C_F	GCAGTGAAGAAGTGTACCA <u>C</u> ATATATTGACTGTGACCTG
ASPA_SDM_188G_C_R	CAGGTCACAGTCAATATAT <u>G</u> TGGTACACTTCTTCACTGC
ASPA_SDM_206T_G_F	CAGATATATTGACTGTGACC <u>G</u> GAATCGCATTTTTGACCTTG
ASPA_SDM_206T_G_R	CAAGGTCAAAAATGCGATT <u>C</u> GGTACAGTCAATATATCTG
ASPA_SDM_302G_T_F	AGGGCTCAAGAAATAAATCATTTATTT <u>G</u> TCCAAAAGACAGTGAAGAT
ASPA_SDM_302G_T_R	ATCTTCACTGTCTTTT <u>G</u> GAA <u>C</u> AAATAAATGATTTATTTCTTGAGCCCT
ASPA_SDM_385G_A_F	CATGGGGTGCACACTCTTATTCTT <u>A</u> AGGATTCCAGGAATA
ASPA_SDM_385G_A_R	TATTCCTGGAATCCTT <u>A</u> AGAATAAGAGTGCACCCCATG
ASPA_SDM_509T_C_F	TATGCGACCACTCGTTCC <u>A</u> CAGCCAAGTATCCTG
ASPA_SDM_509T_C_R	CAGGATACTTGGCT <u>G</u> TGGAACGAGTGGTCGCATA
ASPA_SDM_539G_T_F	TGTGGGTATAGAAGTT <u>G</u> TCCTCAGCCTCAAGGG
ASPA_SDM_539G_T_R	CCCTTGAGGCTGAGGA <u>A</u> CAACTTCTATACCCACA
ASPA_SDM_610G_C_F	AAATGAGAAAAATGATTAACATGCTCTT <u>C</u> ATTTTATACATCATTTCAATGAAGGAAAA
ASPA_SDM_610G_C_R	TTTTCTTCATTGAAATGATGTATAAAAT <u>G</u> AAGAGCATGTTTAATCATTTTTCTCATT
ASPA_SDM_743A_G_F	CATCCATCCTAATCTGC <u>G</u> GGATCAAGACTGGAAAC
ASPA_SDM_743A_G_R	GTTTCCAGTCTTGATCC <u>C</u> GCAGATTAGGATGGATG
ASPA_SDM_854A_C_F	GTACCCCGTGTGTTGTGAATG <u>C</u> GGACGCATATTACGAAAAG
ASPA_SDM_854A_C_R	CTTTTCGTAATATGCGTCC <u>C</u> CATTACAAACACGGGGTAC
ASPA_SDM_857C_A_F	CCCGTGTGTTGTGAATGAGG <u>A</u> CGCATATTACGAAAAGAAA
ASPA_SDM_857C_A_R	TTTTTTTTCGTAATATGCGT <u>C</u> CCTCATTACAAACACGGG
ASPA_SDM_914C_A_F	GACAACATAACTAACGCTCAATG <u>A</u> AAAAAGTATTCGCTGCTGTTTAC
ASPA_SDM_914C_A_R	GTAAACAGCAGCGAATACTTTTT <u>I</u> CATTGAGCGTTAGTTTGTGTC

Note: F – Forward, R – Reverse. Mismatch nucleotides are underlined.