

Supplementary Table 1: List of Primers used in this study

Name	Sequence (5' -3')
Itch 251Bg1II ⁺	AGCCC <u>AGATCT</u> GAATACAAATACAAATACATC
Itch 529SalI ⁻	GTGCC <u>CTCGAC</u> GGGACTGAAGCTCATTATCTG
Itch W291A ⁺	CCCTTGCCACCTGGTGCGGAGCAGAGAGTGGAC
Itch W291A ⁻	GTCCACTCTCTGCTCCGCACCAGGTGGCAAGGG
Itch W323A ⁺	CCTCTACCTCCTGGCGCGGAACGGCGGGTTGAC
Itch W323A ⁻	GTCAACCCGCCGTTCCGCGCCAGGAGGTAGAGG
Itch W403A ⁺	CCATTGCCACCTGGAGCGGAGAAGAGAACAGAC
Itch W403A ⁻	GTCTGTTCTCTTCTCCGCTCCAGGTGGCAATGG
Itch W433A ⁺	CCCTTACCTGAAGGTGCGGAAATGAGATTACACA
Itch W433A ⁻	TGTGAATCTCATTTCCGCACCTTCAGGTAAGGG
RASSF1A EcoRI ⁺	ATCTCG <u>GAATT</u> CATGTCGGGGGAGCCTGAGCT
RASSF1A XhoI ⁻	AGGGAT <u>CTCGAG</u> TCACCCAAGGGGGCAGGCGT
RASSF2 BamHI ⁺	CTACCA <u>GGATCC</u> ATGGACTACAGCCACCAAAC
RASSF2 XhoI ⁻	CCATTG <u>CTCGAG</u> TCAGATTGTTGCTGGGGTCT
RASSF5 EcoRI ⁺	ATCTCC <u>GAATTC</u> ATGGCCATGGCGTCCCCGGC
RASSF5 XhoI ⁻	GGATCCCTCGAGGCCAGGTTTGCCCTGGGATTCTCT
RASSF5 Y13A ⁺	ATCGGGCAGCGCCCGGCTCCGCTACTCTTGGAC
RASSF5 Y13A ⁻	ATCGGGCAGCGCCCGGCTCCGCTACTCTTGGAC
RASSF5 Y262A ⁺	CGGCCCCAGTCCATCGCTGATGCCATCAAGGAG
RASSF5 Y262A ⁻	CTCCTTGATGGCATCAGCGATGGACTGGGGCCG
RASSF5 Y281A ⁺	AAGCGGACATCCTTCGCTCTGCCCTAGATGCC
RASSF5 Y281A ⁻	GGCATCTAGGGGCAGAGCGAAGGATGTCCGCTT
RASSF5 Y24A ⁺	CCCGAGCCGCCGCGCGCTACAGAGCCTGAG
RASSF5 Y24A ⁻	CTCAGGCTCTGTAGCGCGCGGGCGGCTCGGG
RASSF5 Y218A ⁺	CAGAAGATCGACAGCGCAACACGCGAGAGAAG
RASSF5 Y218A ⁻	CTTCTCTCGCGTGTTCGCCTGTTCGATCTTCTG
RASSF7 KpnI ⁺	GGACAGAAGCTT <u>GGTACC</u> GCCGCCACCATGTTGTTGGGACTGGCGGCCATGGAGCTGAAGG
RASSF7 XhoI ⁻	TGCACC <u>CTCGAG</u> TCAGATATCCAGAGCCTGGGGCTGGGGCTGGGCTGCCAGAGGAC
RASSF8 KpnI ⁺	ATCATCGGATCC <u>GGTACC</u> GCCGCCACCATGGAACCTAAAGTATGGGTGGATGGAGTTCAGAGG
RASSF8 XhoI ⁻	TGCACC <u>CTCGAG</u> CTAGATATCTACATATATGCCTTCAGGATTTAAACCAGATG
RASSF10 EcoRI ⁺	TAG <u>GAATTC</u> GCCGCCACCATGGATCCTTCGGAAAAGAAG
RASSF10 XhoI ⁻	TATA <u>CTCGAG</u> CTAGGTACCCACAAGGGATTTCGCACATGGGCA

(⁺) Forward primer; (⁻) Reverse primer