

Additional file 2. Primers used for the construction of the SDM protein

Primer	Sequence (5'-3')
LPC-G113H-F	CCGTTGTCAAGCATAAGTACAATGCGACCTTGGTGAA
LPC-G113H-R	CTTATGCTTGACAACGGGTCTCGTATCAAACG
LPC-K114G-F	CAAGGGAGGTTACAATGCGACCTTGGTGAACG
LPC-K114G-R	CATTGTAACCTCCCTTGACAACGGGTCTCGTA
LPC-W133A-F	ATAGGGGCGACGGGTGTTATAGAGTGACAGCAGTGAGCC
LPC-W133A-R	AACACCCGTCGCCCCTATTGGGCAGACAAGATAGAAAGC
LPC-G135H-F	GTGGACGCATGTTATAGAGTGACAGCAGTGAGCC
LPC-W133A-R	CTATAACATGCGTCCACCCTATTGGGCAGACA
JL23-G113V-F	GGTGAAGGTGAAGTACAACACCACCCTGCTGAA
JL23-G113V-R	TGTACTTCACCTTCACCACGGGGGTTGTGTCG
JL23-K114T-F	GAAGGGGACATACAACACCACCCTGCTGAACG
JL23-K114T-R	TGTTGTATGTCCCCTTCACCACGGGGGTTGTG
JL23-K114R-F	GAAGGGGAGGTACAACACCACCCTGCTGAACG
JL23-K114R-R	TGTTGTACCTCCCCTTCACCACGGGGGTTGTG
JL23-K114M-F	GAAGGGGATGTACAACACCACCCTGCTGAACG
JL23-K114M-R	TGTTGTACATCCCCTTCACCACGGGGGTTGTG
JL23-K114N-F	GAAGGGGAACTACAACACCACCCTGCTGAACG
JL23-K114N-R	TGTTGTAGTTCCCCTTCACCACGGGGGTTGTG