

Supplementary table 1. Primer sequences for Real-time PCR.

Serial number	Gene	Forward	Reverse
1	GAPDH	5'- AGAAGGCTGGGGCTCATTTG -3'	5'- GTGGTCATGAGTCCTTCCAC -3'
2	SUMO1	5'- CGAGGTTCTGCTTACCCGAG -3'	5'- CCCCCAAGTCCTCAGTTGAA -3'
3	SUMO2	5'- TTGACGGGCAACCAATCAATG -3'	5'- TCAGTAGACACCTCCCGTCT -3'
4	SUMO3	5'- GAGAGGCAGGGCTTGTC AAT -3'	5'- CTAGAAACTGTGCCCTGCCA -3'
5	SUMO4	5'- CTGCTCGTGTACTCGTTAGGT -3'	5'- GACAATCCCCGTGGTTCACA -3'
6	SAE1	5'- GCACGACCTCCGACTACTTT -3'	5'- ACCCAGTGAGTCAAGCACATC -3'
7	UBA2	5'- ATCAAAGGCACAGGTTGCCA -3'	5'- TCTGGGTCGGCTTAGGATGA -3'
8	UBE2I	5'- GAAGTCCCGAGACAAAGGGA -3'	5'- CAGCCACGAAACCAAATGGG -3'
9	PIAS1	5'- AGGTAGTGAGCGGGACGTTA -3'	5'- TTTGGTTGTTCTCCATCAGCTACA -3'
10	PIAS2	5'- TGGCGGATTCGAAGAGTTGA -3'	5'- GTTCGTGGATATCGGCGTCT -3'
11	SEN1	5'- CGGTTCCGGTTCGGACTTT -3'	5'- TCGCCTGAGCCAAGAAAACT -3'
12	SEN2	5'- GTGGTGGTTAAGACGGCGAA -3'	5'- TGCCGAGAATCCTAACCAGC -3'
13	SEN3	5'- CCGACCTCTTTTGATGCCT -3'	5'- AGTGGAAATGTCAGCGAGGTG -3'
14	SEN5	5'- TTCTGTTGATTCTATTACCTGG -3'	5'- CAGTCTGCCAACCTGAAGA -3'
15	SEN6	5'- GCCCAAAGCAGTCTGGACC -3'	5'- GTTCAACACCTTGAGCCGA -3'
16	SEN7	5'- TTCAGCAGCGGGAGAAGATG -3'	5'- CAAAGGAGAGTCCAGCGTT -3'