

Table SI. Primers, TaqMan probes and cycling conditions used for real-time polymerase chain reaction (RT-PCR)

Gene transcript	Primers	TaqMan probe
<i>FLG</i> *** NM_002016.1	(F) ggactctgagagcgatctg (R) tgctcccgagaagatccat	Universal ProbeLibrary Probe # 38 (Roche)
<i>FLG2</i> ** NM_001014342.2	(F) ctgactatggcctgcaacaa (R) ctttgaccctgaagctttgc	Universal ProbeLibrary Probe # 73 (Roche)
<i>LELP1</i> ** NM_001010857.1	(F) gaggcactgtggcactac (R) acagcgtgtacatggtgga	Universal ProbeLibrary Probe # 77 (Roche)
<i>SPRR1A</i> var.1* NM_001199828.1	(F) tcgggtgcatttgaggat (R) aaggaagactaggatggttca	Universal ProbeLibrary Probe # 60 (Roche)
<i>SPRR1A</i> var.2* NM_005987.3	(F) tcgggtgcatttgaggat (R) ttaaaagtattattga	Universal ProbeLibrary Probe # 60 (Roche)
<i>SPRR1B</i> * NM_003125.2	(F) gagagactaagatgaaagcaatga (R) tgaagtgaatttaattggggta	Universal ProbeLibrary Probe # 24 (Roche)
<i>SPRR3</i> var. 1* NM_005416.2	(F) tcaggagcttagaggattctca (R) ttctgctgtaagaactcatgc	Universal ProbeLibrary Probe # 89 (Roche)
<i>SPRR3</i> var.2* NM_001097589.1	(F) gctgaacacctcgacctct (R) tgcttctgctgtaagaactca	Universal ProbeLibrary Probe # 62 (Roche)
<i>ACTB</i>		Universal ProbeLibrary Reference Gene Assay Roche, Human ACTB Gene Assay
<i>TBP</i>		Universal ProbeLibrary Reference Gene Assay Roche, Human TBP Gene Assay
<i>G6PD</i>		Universal ProbeLibrary Reference Gene Assay Roche, Human G6PD Gene Assay

Reverse transcription: 48°C (10 min), 95°C (10 min). Amplification: 95°C (10 s), 60°C (45 s), 40 cycles.

\*Expression of this transcript was normalized to transcript of  $\beta$ -actin gene (*ACTB*). \*\*Expression of this transcript was normalized to transcript of TATA-binding protein gene (*TBP*). \*\*\*Expression of this transcript was normalized to transcript of glucose-6-phosphate dehydrogenase gene (*G6PD*).