**Table S1**

**FLCN–PCR: primer sequences and conditions**

Exon Primer annealing temp.(°C)

4 ggggaggtttcatggagtc

tgtccatcccacacctactg 59,2

5 ccctgcttcccaactaacag

tgcctccctgtgcaatgctg 59,2

6 cactaagcgaggaaagggctg

tctccaggcctcaacctcag 66,1

7 ggagttggctgtgaacgag

tgactgctctatcctaacag 55,4

8 gccctgctggtgttctttta

ctgccaggagagcagacag 59,2

9 gaacagctgacggtctttcc

atgactggctctcctcctga 57,7

10 ctagtcacgctgaaagcactg

gtgctgggcagtcggtgcac 63,9

11 gggtagtagagcatggatg

gaacctcagcgcagggcatg 59,2

12-13 ccccactgacctgggatgag

gcaaaggggcctcacccacac 66,1

14 gctggtgccaaagccgtgtc

ccttccagcagttgagaaact 63,9