Additonal file 1

PCR primers:

Exon	Forward primer (5' – 3')	Reverse primer (5' – 3')	Amplicon length
2	acgcagccccagctttac	aagccagcgcatattctcc	395
3	gtgcaggacataacagcttc	gagcagaggctggaggttg	528
4	ccgtctctagccacctcatc	gaccgagttgaaggcgaat	338
4	agacctttccattcgccttc	agtcaaaatgaccccagtcc	483

PCR conditions:

- 100 ng DNA
- 1× PCRx Amplification Buffer (Invitrogen, Carlsbad, CA)
- 2× PCRx Enhancer Solution (Invitrogen)
- 0.2 mmol/l of each dNTP (Invitrogen)
- 1.5 mmol/l $MgSO_4$ (Invitrogen)
- 1 unit PlatinumTaq DNA polymerase (Invitrogen)
- 0,50 µmol/l of each oligodeoxynucleotide primer (IDT, Coralville, IA)

  Total volume: 15 µl

Cycling conditions:

PCR step	Temperature	Time
Initial denaturation	94 °C	5 min
10 touchdown cycles (annealing temperature decreases 1 °C each cycle)	94 °C	30 sec
	65 °C	15 sec
	72 °C	60 sec
35 amplification cycles	94 °C	45 sec
	55 °C	45 sec
	72 °C	90 sec
Final extension	72 °C	10 min