

Assay Name	F primer Seq (5'-3')	Probe sequence (5'-3')	R primer Seq (5'-3')	Product size (bp)	Efficiency (%)	r2
FAM161A_FL	TGCAGAAACTCCTGACAATCC	GGGCTAAAGCTTATGACTCCCATCAAA	TTCTCTCATCCTTTCTTTTCAC	116	102.5	0.9904
FAM161A_FL-5	TGCAGAAACTCCTGACAATCC	GGGCTAAAGCTTATGACTCCCATCAAA	GCTTTTCTGCTGCCATTCTT	116	104.9	0.9924
FAM161A_SH	GGGAGAGAACAAGCCACAAG	GGCCGCTACTGTTTCAAAGAGTTGC	GCTGCCATTCTTGCAATTTT	140	102.9	0.9923
FAM161A_SH-5	AGCCTGTGCCTTGTAAGTGC	CCCCCTCCAATGCCACAGT	GCTGCCATTCTTGCAATTTT	90	106.4	0.9938
TBP	TCTGGCATATTTCTCGCTG	ACTGTTCTCACTCTTGGCTCCCG	TTCAGTTCTGGGAAGATGGTG	90	106.8	0.9938
ACTB	CCAACCGTGAGAAGATGACC	CGAGACTTTCAACACCCCAGCCA	CGTACAGGGACAGCACAG	90	97.9	0.995

PCR reaction components	Final Concentration
KAPA Probe Fast Universal qPCR mastermix (KAPA Biosystems)	1X
PrimeTime qPCR assay mix (IDT)	1X
cDNA	4 µL
PCR grade water	up to 20 µL

**Thermal Cycling Parameters**

95°C - 5 min	X40
95°C - 10 sec	
57°C - 15 sec	
72°C - 15 sec	