Category	Item to be described/detailed	Location in Manuscript	Comments by Author
Sample	Type (blood, etc.)	Line 190	Tissue
	Method of dissection/procurement	Line 189	Anesthetized dissection
	Processing procedure	Line189-192	Quick dissection
	If frozen, how and how quickly?	Line 191	Liquid nitrogen, immediately
	If fixed, with what and how quickly?		Not fixed
	Storage conditions and duration	Line 192	-80 °C refrigerator, one month
Extraction	Method or instrument	Line 192-201	Traditional method
	Reagents/kits/modifications	Line 192	Reagents: TRIzol
	DNAse or RNAse treatment		Ribonuclease Inhibitor
	Evidence for lack of contamination (DNA or RNA)	Line 200-201	Electrophoresis and nucleic acid quantification
	Nucleic acid quantification		Purity (A260/A280): 1.9-2.1
	RNA integrity		Three complete bands of RNA
Reverse Transcription	Complete reaction conditions, including all components and their concentrations	Line 200-205	
	RNA amount and reaction volume	Line 200, 204	2 μg RNA, 20 μl reaction volume
	Priming oligo sequence(s)	Line 203	10 μM Oligo (dT) ₁₈
	Cqs with and without reverse transcriptase		Without reverse transcriptase
	HUGO gene abbreviation	Line 61	SjFMRFamide
	Sequence accession number	Line 67	No. KJ933411
	Amplicon length	Table 1	366-533 (167bp)
qPCR target	In silico specificity (BLAST)		Homology comparison with other species
	Location by exon/intron		Exon
	Identify the splice variants amplified		PCR
	All primer/probe sequences	Table 1	RT-FMRF-F and RT-FMRF-R
	Location and identity of any oligonucleotide modifications		No modifications
qPCR protocol	Complete reaction conditions, including all components and their concentrations	Line 238-243	
	cDNA/DNA amount and reaction volume	Line 240, 238	80 ng cDNA, 20 reaction volume
	Instrument identification and complete thermocycling parameters	Line 237-242	7500 Real-Time PCR System (Applied Biosystems, UK)
qPCR validation	Evidence for PCR specificity (gels, sequencing, or melting curves)	Line 242	Melting curves
	Template inhibition data (template titrations)		Recombinant Ribonuclease Inhibitor 10U
	For SYBR Green I reactions, the Cq of the no template control		Only test the Cq of the template

Essential Items on the MIQE Checklist

	Calibration curves with slope and intercept		Only saved the data
	PCR efficiency from the slope		Only saved the data
	r of the calibration curve		Did not save the calibration curve
	Evidence for the linear dynamic range		Did not save the linear dynamic range
	Evidence for the limit of detection		Did not save the limit of detection
	For multiplexed assays, the efficiency and limit of detection of each assay		Only one target gene was checked
Data analysis	qPCR analysis method/software	Line 248-249	$2^{-\Delta\Delta Ct}$ method, SPSS
	Method of Cq determination	Line 248	$2^{-\Delta\Delta Ct}$ method
	Results of no template controls		Only test the template
	Justification of number and choice of reference genes	Line 243	Based on others literature
	Normalization method		$\Delta Ct = Ct(FMRF) - Ct(\beta - Actin)$ $\Delta \Delta Ct = \Delta Ct - \Delta Ct(heart)$
	Number and stage (reverse transcription or qPCR) of technical replicates	Line 244-245	Three technical repeats
	Intra-assay variation in terms of concentration, not Cq	Line 240	cDNA concentration is 0.1 µg/µl
	Statistical methods/software	Line 148-149	LSD multiple comparisontest, SPSS