	IMPORTANCE	CHECKLIST
EXPERIMENTAL DESIGN	_	L : 00 000
Definition of experimental and control groups Number within each group	E E	Line 93-222 Line 93-222
Assay carried out by core lab or investigator's lab?	D D	N
Acknowledgement of authors' contributions	D	N
SAMPLE		
Description Volume (respectively)	E	Line96-98, 146-155
Volume/mass of sample processed Microdissection or macrodissection	D E	N Line96-98,146-155
Processing procedure	E	Line96-98, 146-155
If frozen - how and how quickly?	E	Line96-98, 146-155
If fixed - with what, how quickly?	Е	Line96-98, 146-155
Sample storage conditions and duration (especially for FFPE samples)	E	Line96-98, 146-155
NUCLEIC ACID EXTRACTION	_	Line 450 400
Procedure and/or instrumentation Name of kit and details of any modifications	E E	Line 159-166 Line 159-166
Source of additional reagents used	D	N
Details of DNase or RNAse treatment	E	Line 160-161
Contamination assessment (DNA or RNA)	E	Line 161-162
Nucleic acid quantification	E	Line 162-163
Instrument and method Purity (A260/A280)	E	Line 162-164 Line 163
Yield	D	N
RNA integrity method/instrument	E	Line 163-164
RIN/RQI or Cq of 3' and 5' transcripts	E	Line 164
Electrophoresis traces	D	N
Inhibition testing (Cq dilutions, spike or other)	Е	Line 165-166
REVERSE TRANSCRIPTION Complete reaction conditions	Е	Line 166-172
Amount of RNA and reaction volume	E	Line 166
Priming oligonucleotide (if using GSP) and concentration	E	Line167
Reverse transcriptase and concentration	E	Line 169
Temperature and time	E	Line 166-172
Manufacturer of reagents and catalogue numbers	D	Line 166-172
Cqs with and without RT Storage conditions of cDNA	D* D	N N
Islande conditions of conv.		
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay.	E	Line 181
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number	E	Line 181 Line182-183
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon	E	Line 181 Line182-183 N
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length	E D E	Line 181 Line182-183 N Line187
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc)	E D E E	Line 181 Line182-183 N
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length	E D E	Line 181 Line182-183 N Line187 Line 188
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon	E D D D D	Line 181 Line182-183 N Line187 Line 188 N Line 188
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable)	E D D D D E	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 188
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted?	E D D D D	Line 181 Line182-183 N Line187 Line 188 N Line 188
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted? qPCR OLIGONUCLEOTIDES	E D D D D D E E	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 187 Line 187
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted? qPCR OLIGONUCLEOTIDES Primer sequences	E D D D D E	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 188
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted? qPCR OLIGONUCLEOTIDES	E D D D D D E E	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 187 Line 188 Line 187 Line 187 Line 187 Line 182-183
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted? qPCR OLIGONUGLEOTIDES Primer sequences RTPrimerDB Identification Number Probe sequences Location and identity of any modifications	E D D D D D D D D D D D D D D D D D D D	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 187 Line 187 Line 187 Line 187 Line 185-186 N N Line 187
qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted? qPCR OLIGONUCLEOTIDES Primer sequences RTPrimerDB Identification Number Probe sequences Location and identity of any modifications Manufacturer of oligonucleotides	E D D D D D D D D D D D D D D D D D D D	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 187 Line 187 Line 187 Line 185-186 N N N Line 187 N N N N N N N N N N N N N N N N N N N
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qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted? qPCR OLIGONUCLEOTIDES Primer sequences RTPrimerDB Identification Number Probe sequences Location and identity of any modifications Manufacturer of oligonucleotides Purification method qPCR PROTOCOL Complete reaction conditions Reaction volume and amount of cDNA/DNA Primer, (probe), Mg++ and dNTP concentrations Polymerase identity and concentration	E D D D D D D D D D D D D D D D D D D D	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 187 Line 187 Line 187 Line 185-186 N N Line 187 N N Line 187 Line 187 N N Line 187 Line 187 N Line 187 N Line 187 Line 174-175 Line 175 Line 175
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qPCR TARGET INFORMATION If multiplex, efficiency and LOD of each assay. Sequence accession number Location of amplicon Amplicon length In silico specificity screen (BLAST, etc) Pseudogenes, retropseudogenes or other homologs? Sequence alignment Secondary structure analysis of amplicon Location of each primer by exon or intron (if applicable) What splice variants are targeted? qPCR OLIGONUCLEOTIDES Primer sequences RTPrimerDB Identification Number Probe sequences Location and identity of any modifications Manufacturer of oligonucleotides Purification method qPCR PROTOCOL Complete reaction conditions Reaction volume and amount of cDNA/DNA Primer, (probe), Mg++ and dNTP concentrations Polymerase identity and concentration Buffer/kit identity and manufacturer Exact chemical constitution of the buffer Additives (SYBR Green I, DMSO, etc.)	E D D D D D D D D D D D D D D D D D D D	Line 181 Line182-183 N Line187 Line 188 N Line 188 N Line 187 Line 187 Line 187 Line 185-186 N N Line 187 Line 187 Line 187 Line 187 Line 187 N Line 187 Line 187 N Line 187 Line 187 N Line 187 Line 187 Line 172-184 Line 173 Line 174-175 Line 175 Line 175 Line 174
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Confidence interval for PCR efficiency or standard error	D	Line 181
r2 of standard curve	E	Line 179
Linear dynamic range	E	Line 179
Cq variation at lower limit	E	Line 179
Confidence intervals throughout range	D	Line 181
Evidence for limit of detection	E	Line179-181
If multiplex, efficiency and LOD of each assay.	E	Line 181
DATA ANALYSIS		
qPCR analysis program (source, version)	E	Line183-184
Cq method determination	E	Line181-182
Outlier identification and disposition	E	Line190-191
Results of NTCs	E	Line 190
Justification of number and choice of reference genes	E	Line 184
Description of normalisation method	E	Line181-183
Number and concordance of biological replicates	D	N
Number and stage (RT or qPCR) of technical replicates	E	Line 192-193
Repeatability (intra-assay variation)	E	Line 190-193
Reproducibility (inter-assay variation, %CV)	D	N
Power analysis	D	N
Statistical methods for result significance	E	Line 221-222
Software (source, version)	E	Line 216
Cq or raw data submission using RDML	D	N

Table 1. MIQE checklist for authors, reviewers and editors. All essential information (E) must be submitted with the manuscript. Desirable information (D) should be submitted if available. If using primers obtained from RTPrimerDB, information on qPCR target, oligonucleotides, protocols and validation is available from that source.

^{*:} Assessing the absence of DNA using a no RT assay is essential when first extracting RNA. Once the sample has been validated as RDNA-free, inclusion of a no-RT control is desirable, but no longer essential.

^{**:} Disclosure of the probe sequence is highly desirable and strongly encouraged. However, since not all commercial pre-designed assay vendors provide this information, it cannot be an essential requirement. Use of such assays is advised against.