**Table S1** Specifications of primer and probe systems.

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| --- | --- | --- | --- | --- |
| **Gene or target sequence** | **Oligonucleotide** | **Name** | **Sequence 5‘-3‘** | **Reference** |
| actin | Forward primerReverse primerProbe | act-fact-ract-p | CAA GCA GCA TGA AGA TCA AGG TACA ATC TGT TGG AAA GTG CT GAGROX-CCT CCA ATC CAG ACA CTG TAC TTY CTC TC-BHQ2 | [[23](#_ENREF_22)] |
| False negative control | Forward primerReverse primerProbe | fnc-ffnc-rfnc-p | CGT CAC ATC GGT AGA CGA ACT AATTC AAG TCC TGA GCG GTT GTA AJOE-ACC TAA CGC AGC AAC TTA TCG ACC GTT CAC TT-BHQ1 | In-house |
| 35S-P  | Forward primerReverse primerProbe | 35S-f35S-r35S-p | GCC TCT GCC GAC AGT GGTAAG ACG TGG TTG GAA CGT CTT CFAM-CAA AGA TGG ACC CCC ACC CAC G-BHQ1 | [[26](#_ENREF_25)] |
| NOS-T | Forward primerReverse primerProbe | NOS-fNOS-rNOS-p | ATG ACG TTA TTT ATG AGA TGG GTT TTT ATTG CGC GCT ATA TTT TGT TTT CYY-AGA GTC CCG CAA TTA TAC ATT TAA TAC GCG A-BHQ1 | [[26](#_ENREF_25)] |
| bar | Forward primerReverse primerProbe | bar-fbar-rbar-p | CTG CAC CAT CGT CAA CCA CTA CGAT AGC GCT CCC GCA GACFAM-CGT ACC GAG CCG CAG GAA CCG CAG GAG T-BHQ1 | In-house |
| pat | Forward primerReverse primerProbe | pat-fpat-rpat-p | CGC GGT TTG TGA TAT CGT TAA CTCT TGC AAC CTC TCT AGA TCA TCA ACY5-AGG ACA GAG CCA CAA ACA CCA CAA GAG TG-BHQ2 | [[24](#_ENREF_23)] |
| CP4 epsps | Forward primerReverse primerProbe | epsps-fepsps-repsps-p | CCA ATG GGT CGT GTG TTG AATTG GCG TTG GAG TCT TTG GTJOE-AGA CGG TGA TCG TCT TCC AGT TAC CTT GC-BHQ1 | [[24](#_ENREF_23)] |
| gox | Forward primerReverse primerProbe | gox-fgox-rgox-p | CCG TGG AGG TTG GGA ACT TCCC TTG GTA AAG GCG TGA GAROX-CTG ATG CAT TGC GTG ATT TCG ATC CTA AC-BHQ2 | In-house, based on [[25](#_ENREF_24)] |
| GT73 | Forward primerReverse primerProbe | GT73F1GT73R1GT73TMP1 | TCA TAC TCA TTG CTG ATC CAT GTA GAAAG CTT ATA CGA AGG CAA GAA AAG GFAM-TTC CCG GAC ATG AAG ATC ATC CTC CTT C-DABCYL | In-house |
| MS8 | Forward primerReverse primerProbe | KVM085HCA048TM011 | GTT AGA AAA AGT AAA CAA TTA ATA TAG CCG GGGA GGG TGT TTT TGG TTA TCFAM-AAT ATA ATC GAC GGA TCC CCG GGA ATT C-TAMRA | [[27](#_ENREF_26)] |
| RF3 | Forward primerReverse primerProbe | KVM084DPA165TM010 | AGC ATT TAG CAT GTA CCA TCA GAC ACAT AAA GGA AGA TGG AGA CTT GAGFAM-CGC ACG CTT ATC GAC CAT AAG CCC A-TAMRA | [[27](#_ENREF_26)] |
| 83b1 | Forward primerReverse primer | 83b1-f83b1-r | GCC TTT CTT CAC AAC TGA TAG CTA ATCA GGT GCC TCG TTG AGT TC | [[31](#_ENREF_29)] |