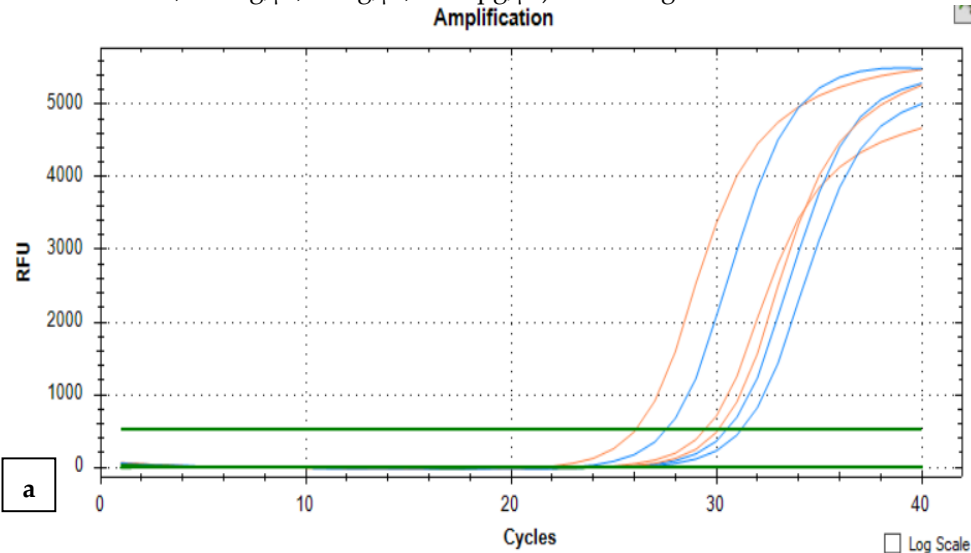


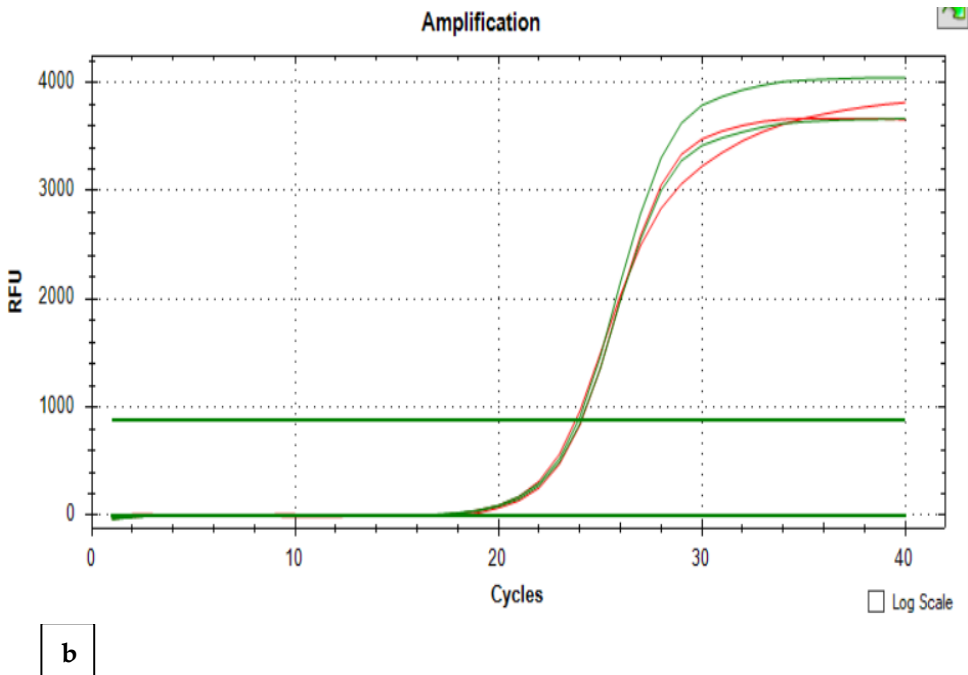
**SUPPLEMENTARY FIGURES**

**Supplementary Figure S1:**

(a) qPCR of **APP gene** (orange) and **HER2 gene** (blue) of the male Human DNA control (cat.no. 4312660, ThermoFisher, 10ng/μl, 1ng/μl, 100pg/μl) showing on differences between amplification efficacies.

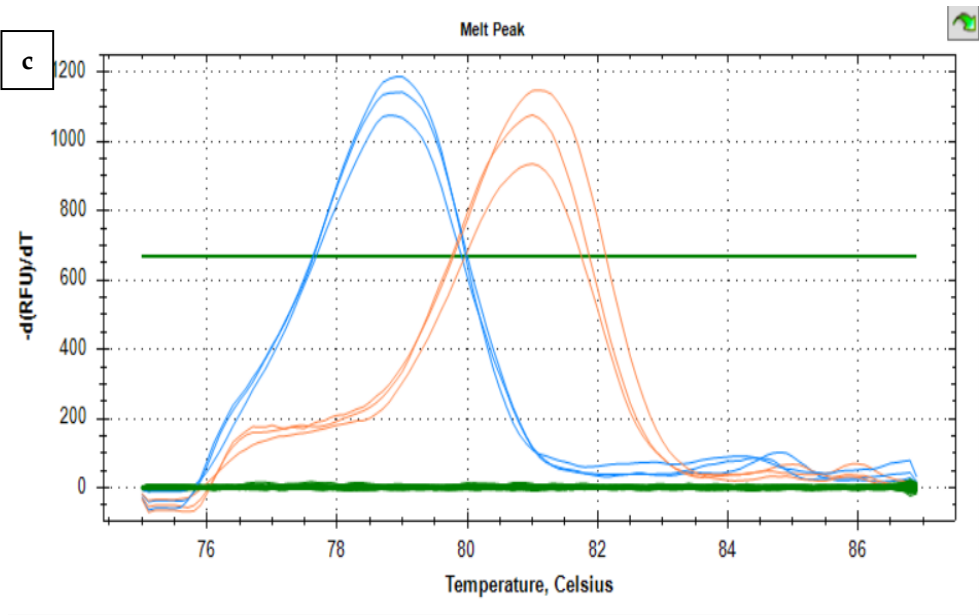


(b) qPCR of **APP** transcripts (red, detectable transcripts: ENST00000359726;ENST00000463070;ENST00000474136;ENST00000448850;ENST00000358918;ENST00000439274;ENST00000440126;ENST00000357903;ENST00000348990;ENST00000354192;ENST00000346798) and **HER2** transcripts (green, detectable transcripts: ENST00000541774;ENST00000406381;ENST00000578502;ENST00000583038;ENST00000584908;ENST00000269571;ENST00000578373;ENST00000584450;ENST00000578199;ENST00000584601); of the pooled cDNA sample; no differences in efficacies were shown.

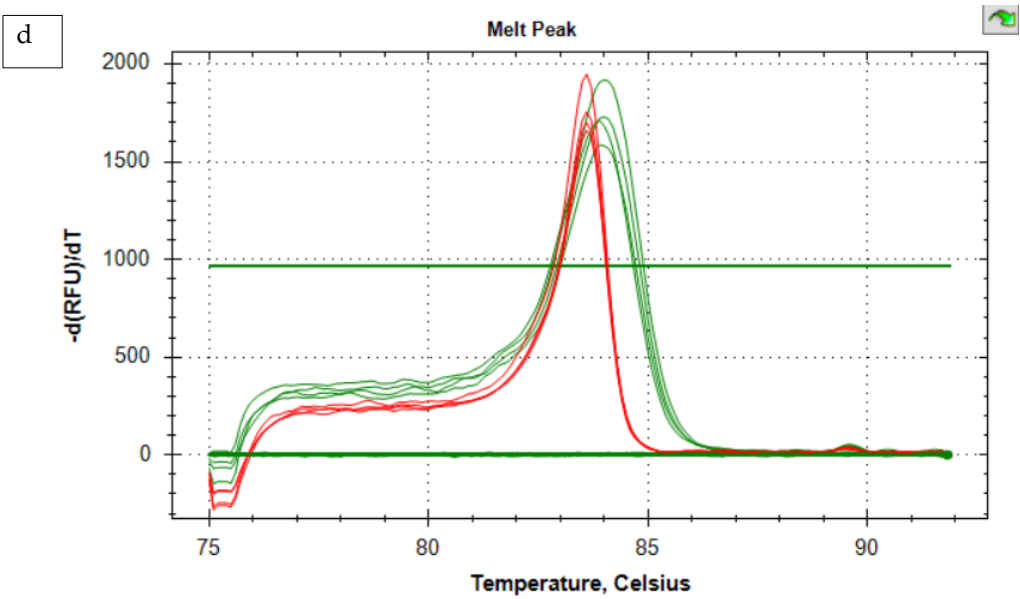


**SUPPLEMENTARY FIGURES**

(c) High resolution melting profiles of *APP* (orange) and *HER2* gene (blue). Proof of the PCR reactions specificity on DNA level.

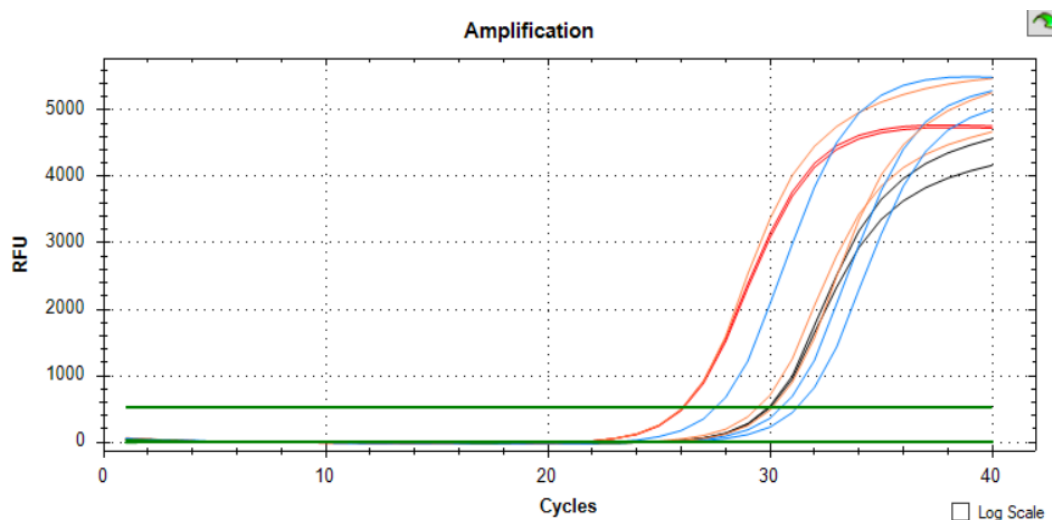


(d) High resolution melting profiles of *APP* (red) and *HER2* gene (green). Proof of the PCR reactions specificity on cDNA level.



### SUPPLEMENTARY FIGURES

**Supplementary figure S2:** CNV analysis of positive **sample no. 3**. Q-PCR of *HER2* gene (red), *APP* gene (black) and their absolute quantification using the Human DNA Standard (cat.no. 4312660, Thermo Fisher, 10ng/μl, 1ng/μl, 100pg/μl; Calibration curves created using ampification for both genes: *APP* gene (orange); *HER2* gene (blue).



**Supplementary figure S3:** Sample no. 7- qPCR test for *HER2* copy number and its gene expression determination, simultaneous assessment. Absolute quantification of DNA using calibration curves generated with the male human DNA control (cat.no. 4312660, Thermo Fisher, –10 ng/μL, 1 ng/μL, 100 pg/μL; qPCR for *APP* gene (orange); *HER2* gene (blue)). Q-PCR of DNA sample no. 7 for *APP* gene (red, 2 different dilutions) and *HER2* gene (green). Q-RT-PCR of the cDNA sample no. 7 for *APP* transcripts (brown) and *HER2* transcripts (purple).

