

## Supplementary data 1

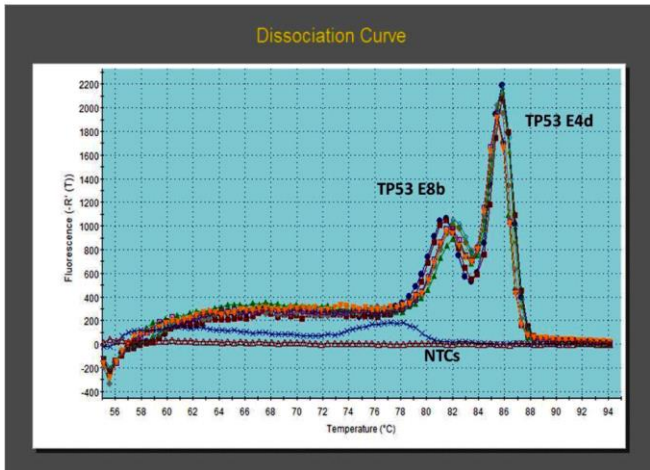
### Potential savings from adopting QMC-PCR<sub>x</sub>

We have indicated that there are cost savings to be made from using QMC-PCR<sub>x</sub> for screening for mutations. The savings can be found both in terms of consumable costs and manpower costs.

For consumables, the standard singleplex QMC-PCR and HRM costs £112.20 as compared to a cost of £44.88 for testing the same 85 targets (in duplicate) using QMC-PCR<sub>x</sub> (this is based on consumable costs in December 2016, [www.clentlifescience.co.uk/pcr-mastermix-products/hotshot-diamond-pcr-master-mix](http://www.clentlifescience.co.uk/pcr-mastermix-products/hotshot-diamond-pcr-master-mix)).

With regards to manpower costs, assuming that the primers have been mixed together for QMC-PCR<sub>x</sub>, the time taken for setting up each PCR will be the same whether using the standard QMC-PCR protocol or QMC-PCR<sub>x</sub>. However, testing the 85 targets requires 170 PCRs to be set up with the standard protocol whilst the QMC-PCR<sub>x</sub> protocol requires only 68 PCRs to be set up. Furthermore, interpretation of the data will take longer for the standard protocol as more data files will need to be evaluated.

A



B

