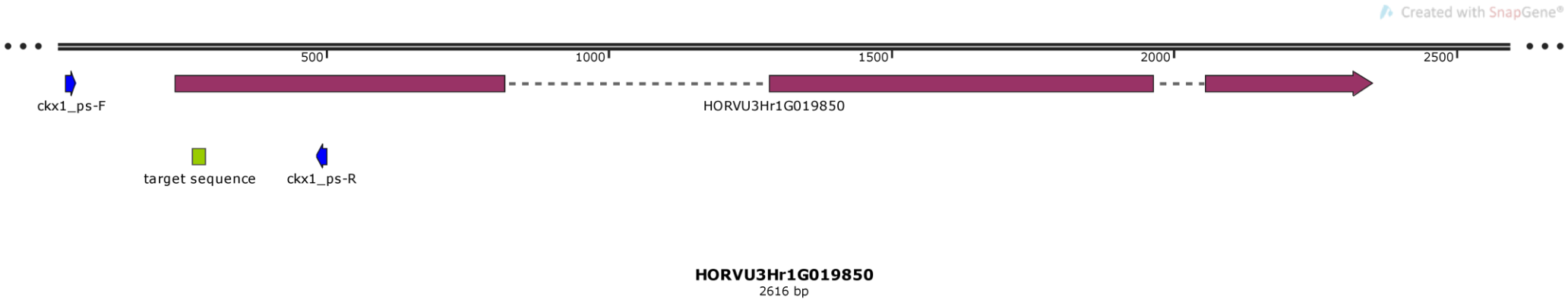


Fig. S1 Schematic structure of *HvCKX1* gene and target sequence position. Purple bars represent exons; position of target sequence is marked by green bar; position of ckx1-ps primers are marked by dark blue arrows.

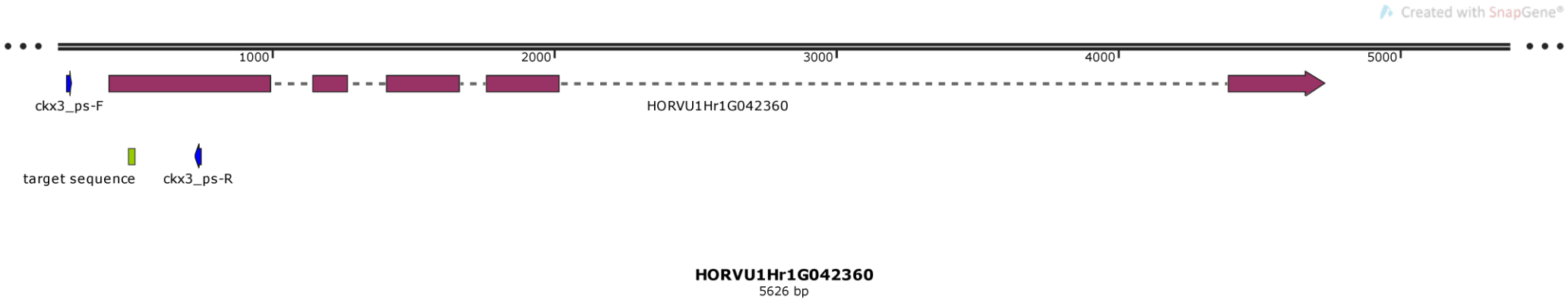
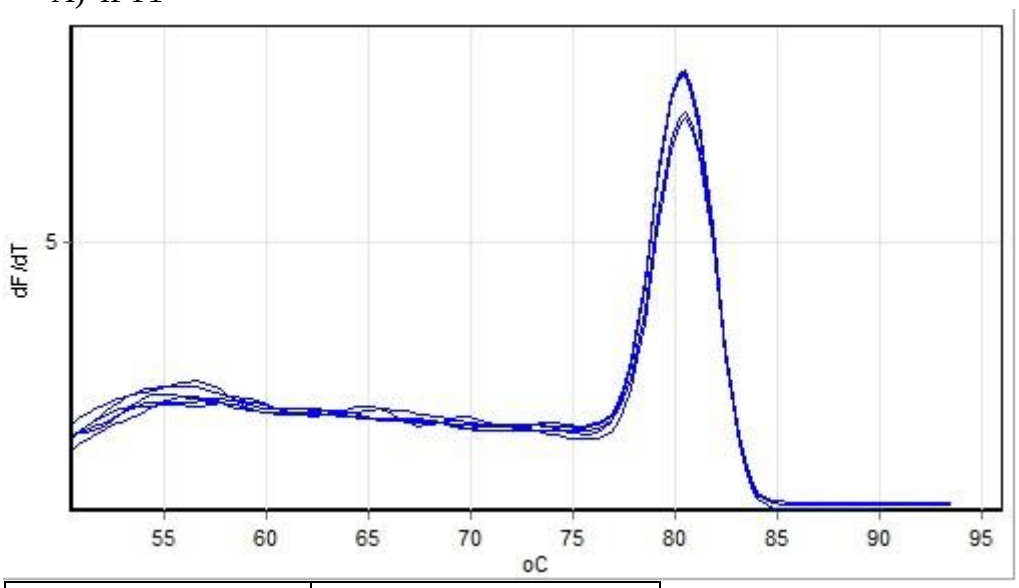


Fig. S2 Schematic structure of *HvCKX3* gene and target sequence position. Purple bars represent exons; position of target sequence is marked by green bar; position of ckx1-ps primers are marked by dark blue arrows.

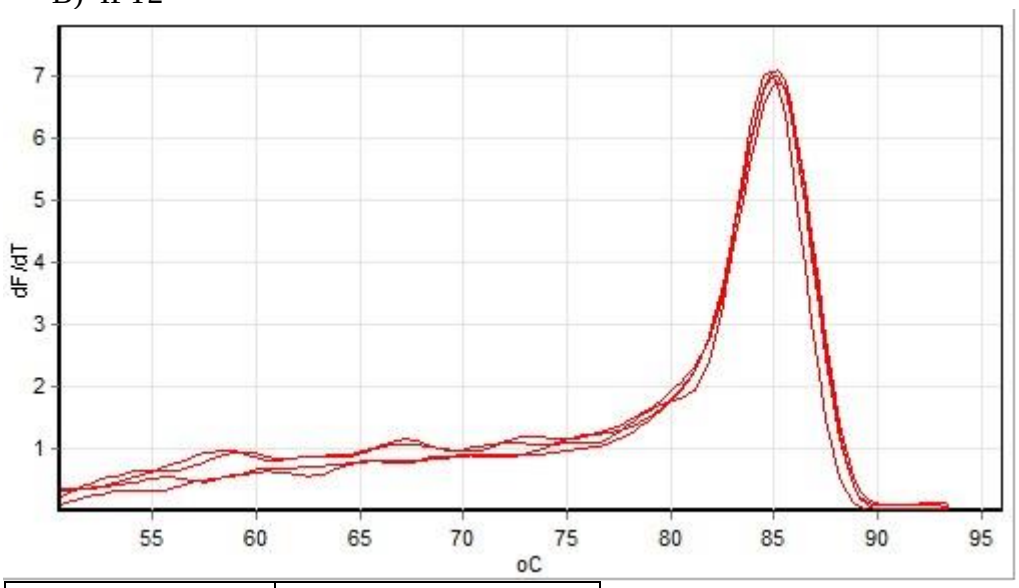
Fig. S3

A) IPT1



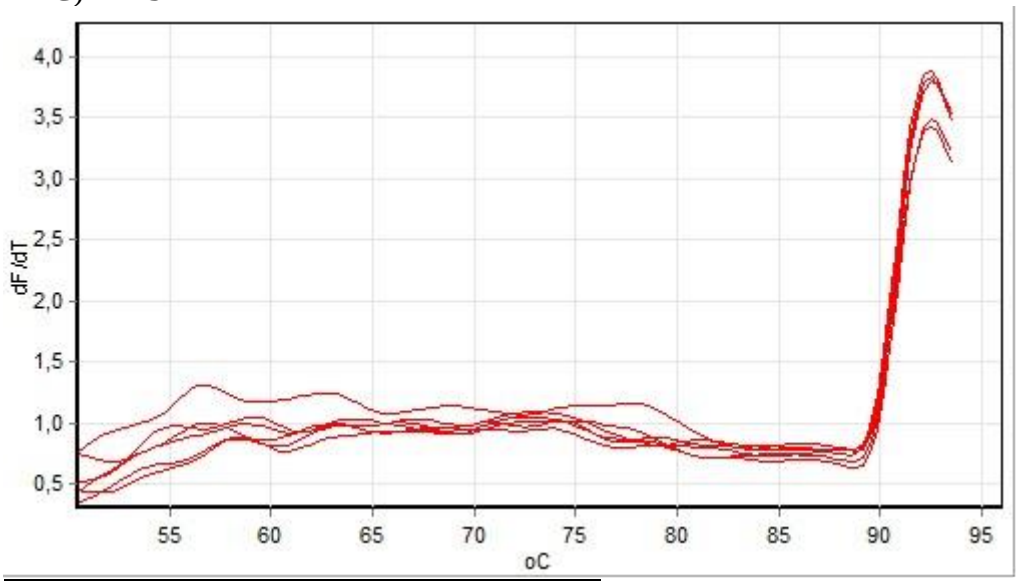
Reaction efficiency (*)	1,0053 (* = 10^(-1/m) - 1)

B) IPT2



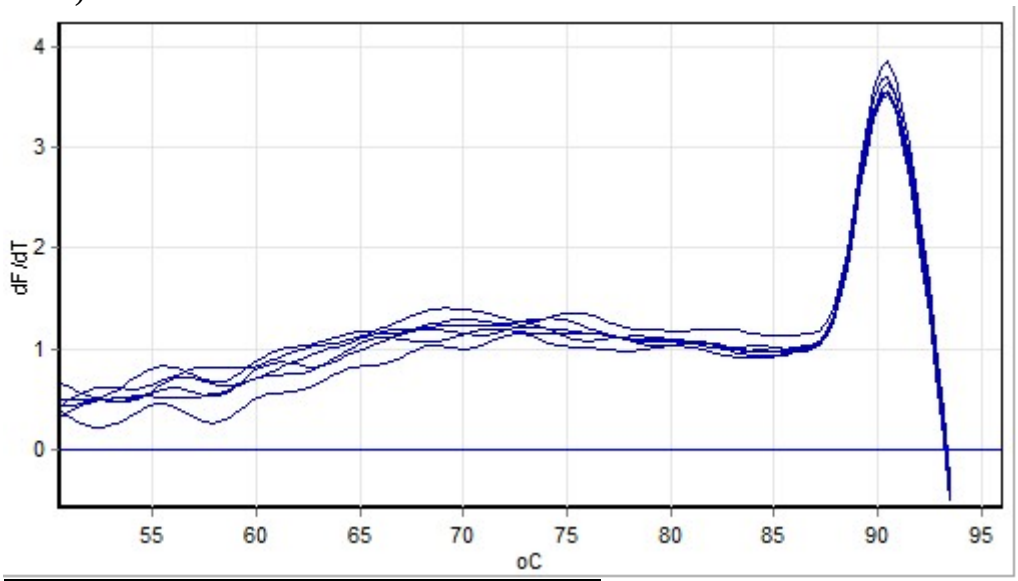
Reaction efficiency (*)	1,00773 (* = 10^(-1/m) - 1)

C) IPT3



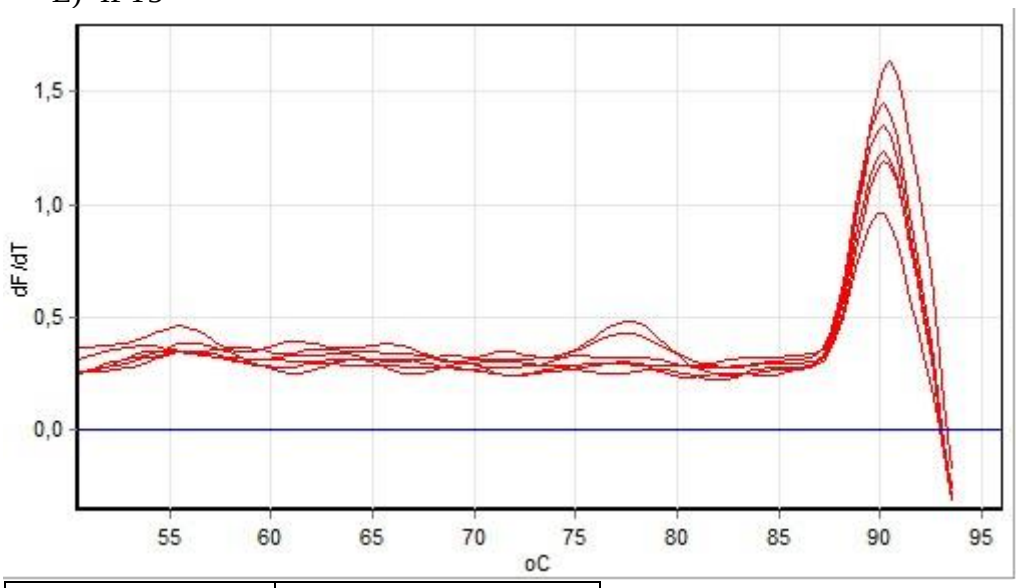
Reaction efficiency (*)	0,92709 (* = 10^(-1/m) - 1)

D) IPT4



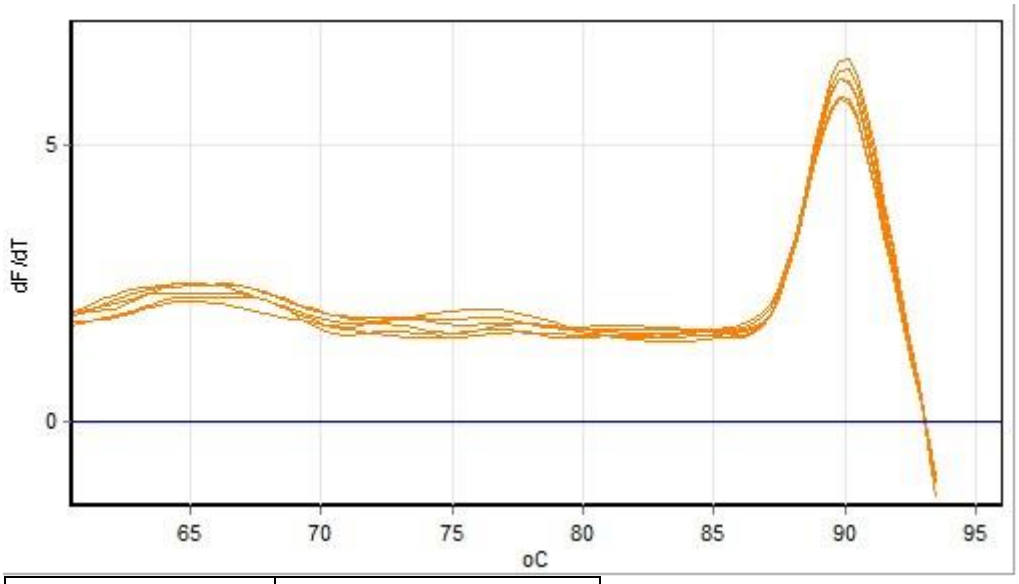
Reaction efficiency (*)	0,95254 (* = 10^(-1/m) - 1)

E) IPT5



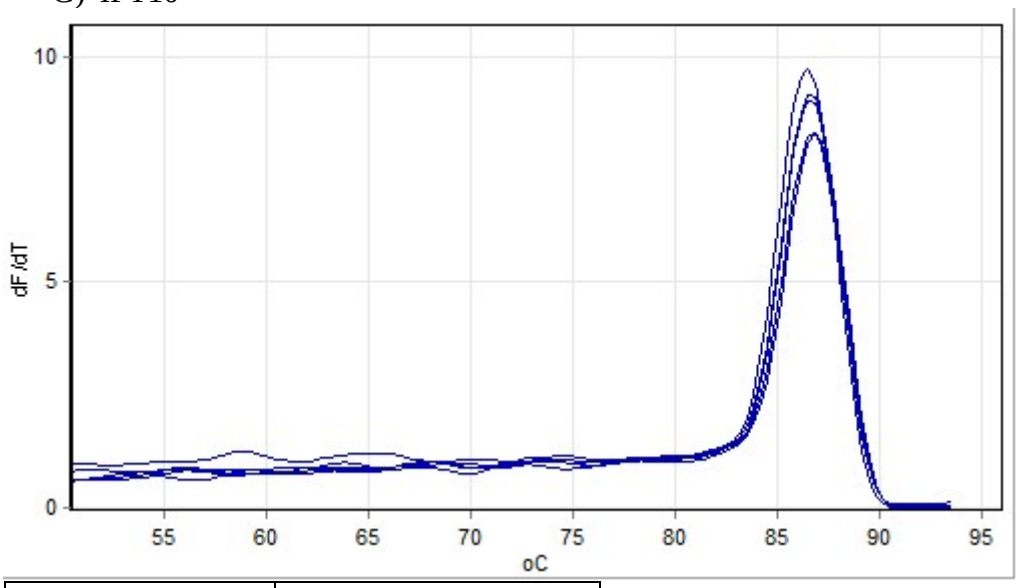
Reaction efficiency (*)	0,94357 (* = 10^(-1/m) - 1)

F) IPT7



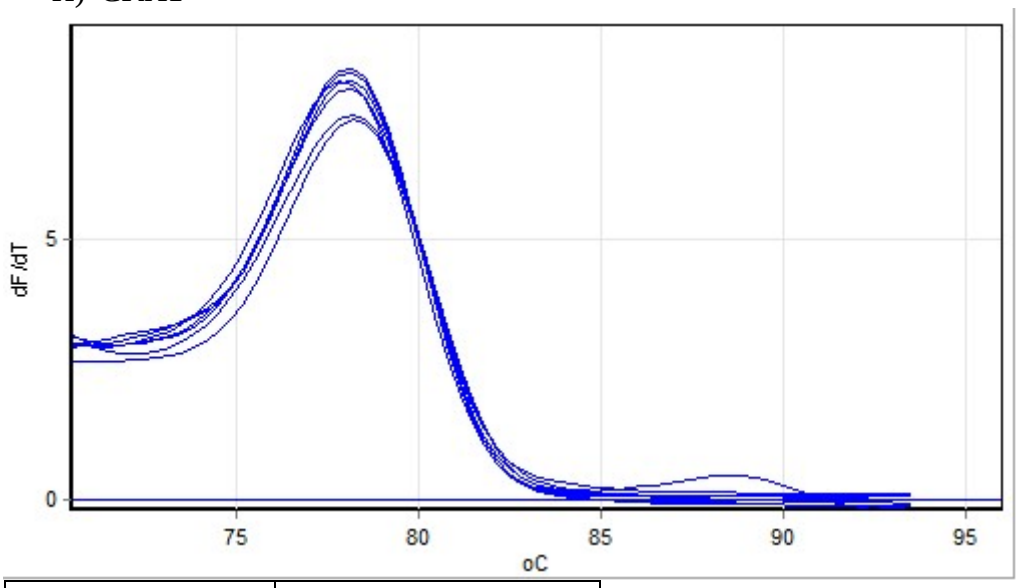
Reaction efficiency (*)	1,00093 (* = 10^(-1/m) - 1)

G) IPT10



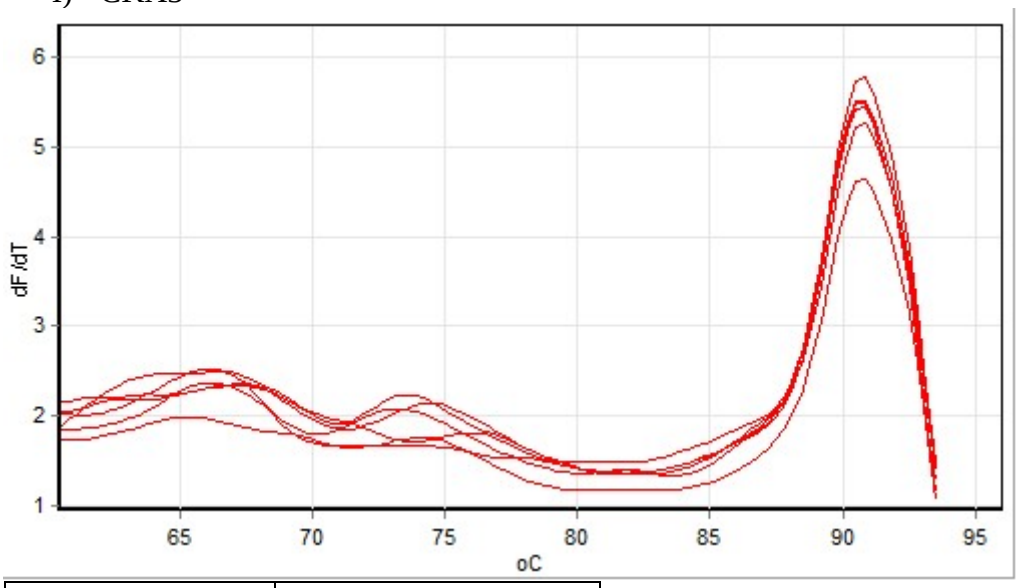
Reaction efficiency (*)	1,00448 (* = 10^(-1/m) - 1)

H) CKX1



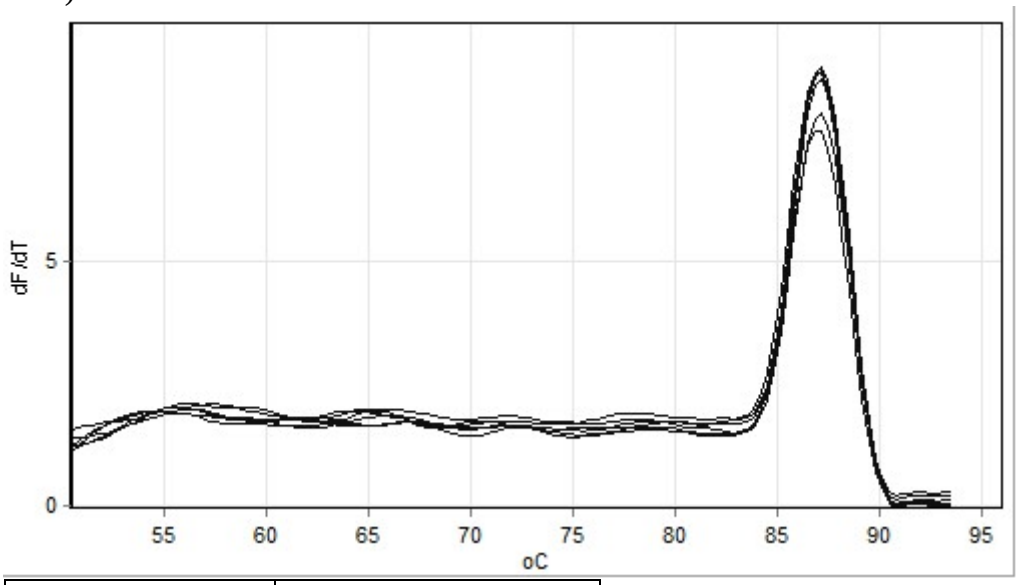
Reaction efficiency (*)	0,81026 (* = 10^(-1/m) - 1)

I) CKX3



Reaction efficiency (*)	0,91538 (* = 10^(-1/m) - 1)

J) EF2



Reaction efficiency (*)	1,01498 (* = 10^(-1/m) - 1)

Fig. S3 Melting curves and reaction efficiencies for primer pairs of *HvIPT* (A-G), *HvCKX1* (H), *HvCKX3* (I) and *EF2* (J) genes. The reaction efficiencies were calculated based on series of standards dilutions of each gene.