

Supplementary Materials

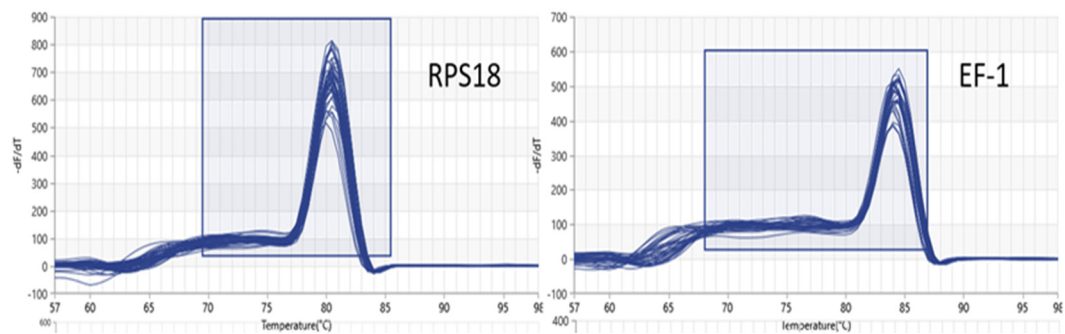


Figure S1. Analysis of the melting of RT- qPCR products using the Gentier 96E standard software amplifier (TianLong, China)

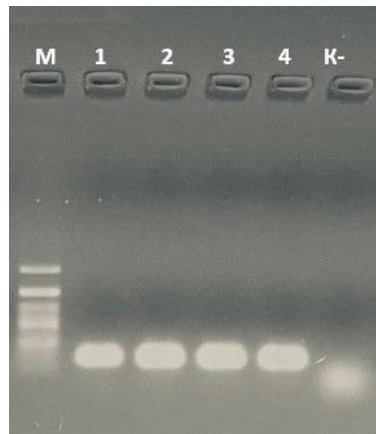


Figure S2. Agarose gel (2 %) electrophoresis of RT-qPCR products. M - molecular weight marker of DNA fragments (50 bp-700 bp) (Evrogen, Russian Federation); 1-4 fragments of CYP6D1 (114 bp); K- negative control based on RNA

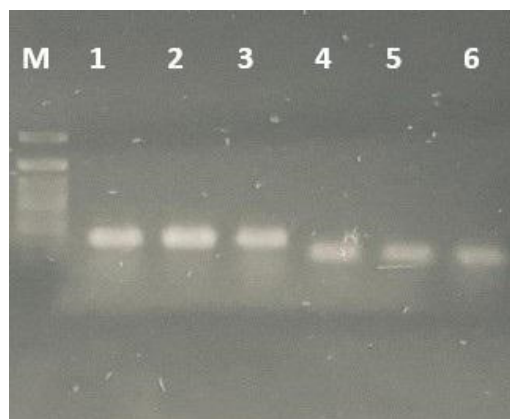


Figure S3. Agarose gel (2 %) electrophoresis of RT-qPCR products obtained with primers for reference genes. M - molecular weight marker of DNA fragments (50 bp-700 bp) (Evrogen, Russian Federation); 1-3 - RPS18 (fragments of 149 bp); 4-6 - EF-1 (fragments of 91 bp).

Table S1. Genes evaluated in this study

Gene	Name	Nucleotide sequence (5' → 3') of primers (forward/reverse)	Tm	Length of PCR product (bp)	GenBank ID	Method
<i>RPS18</i>	Рибосомал ьный белок s18	ATCGTCACCATCATCTCCAAC TTCTTCAAGCGTTCCAAATCG	59	149 bp	KT006855.1	RT-qPCR
<i>EF -1</i>	Фактор элонгации	TAAGGAAGGTAACGCTGAAGG CAAGGGCAAACGCAAAGG	59	91 bp	AF503149.1	RT-qPCR
<i>CYP6D1</i>	CYP6D1	AGAACGCTTTGCCGATGAGG GCTACCTTGGAATTGATAACGC	58.4	114 bp	AF064795.1	RT-qPCR
<i>CYP6D1</i>	CYP6D1	AGCTGACGAAATTGATCAATCA GT CATTGGATCATTTTTCTCATC	56.5	711 bp	№AF200191.1	PCR- RFLP

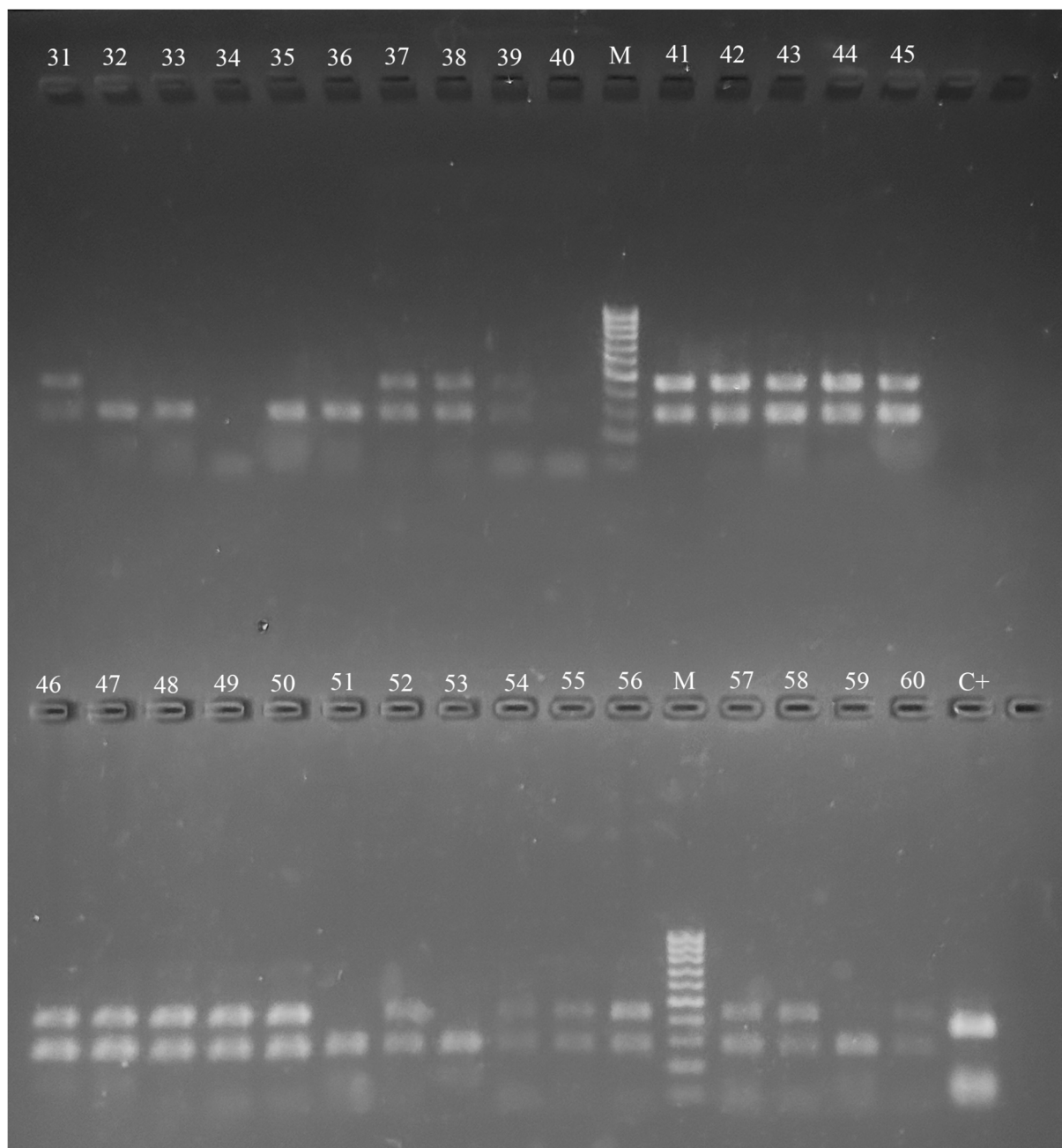


Figure S4. Electrophoregram of restriction products by cleavage with Hpy188III. M - molecular weight marker of DNA fragments 100 bp; 31-40 – males from the Ch1A strain; 41-50 – males from the Lab UF; 51-60 – males from the Lab TY; C+ – positive control (*M. domestica ace*, 609 bp).