Figure S1. Dissociation curve analysis of SEA deletion. (A) The wild type fetus melting temperature peak was 91.5±0.15˚C. (B) The Bart's hydrops fetalis melting temperature peak was 87.8±0.02˚C. (C) Heterozygous fetus shows the melting temperature of both types.

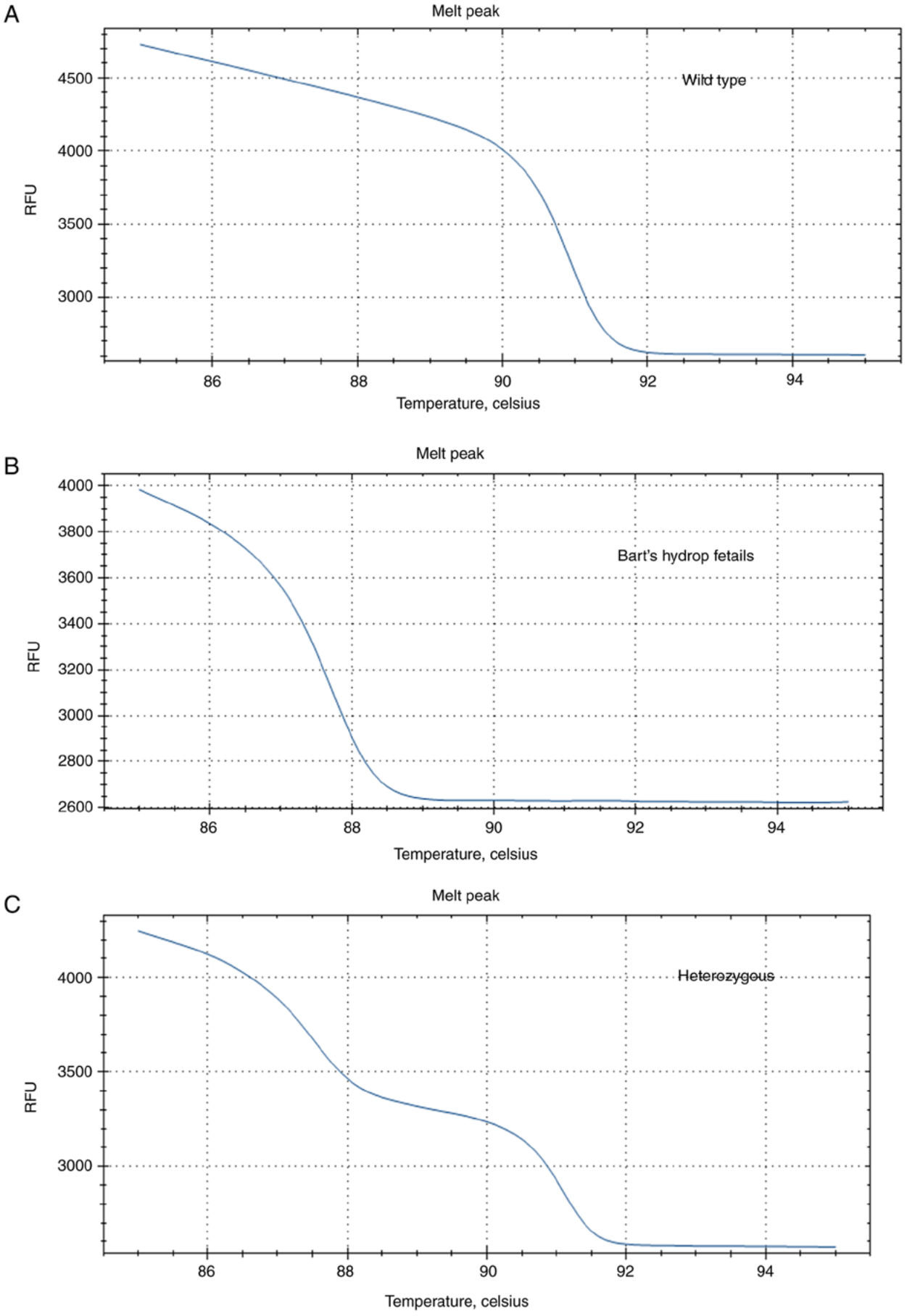

Figure S2. Real time PCR graph showing the decrease in fluorescence signal of the different genotypes Graph of the fluorescence signal for the (A) wild type, (B) Bart's hydrops fetalis and (C) Heterozygous genotypes. RFU, relative fluorescence unit.

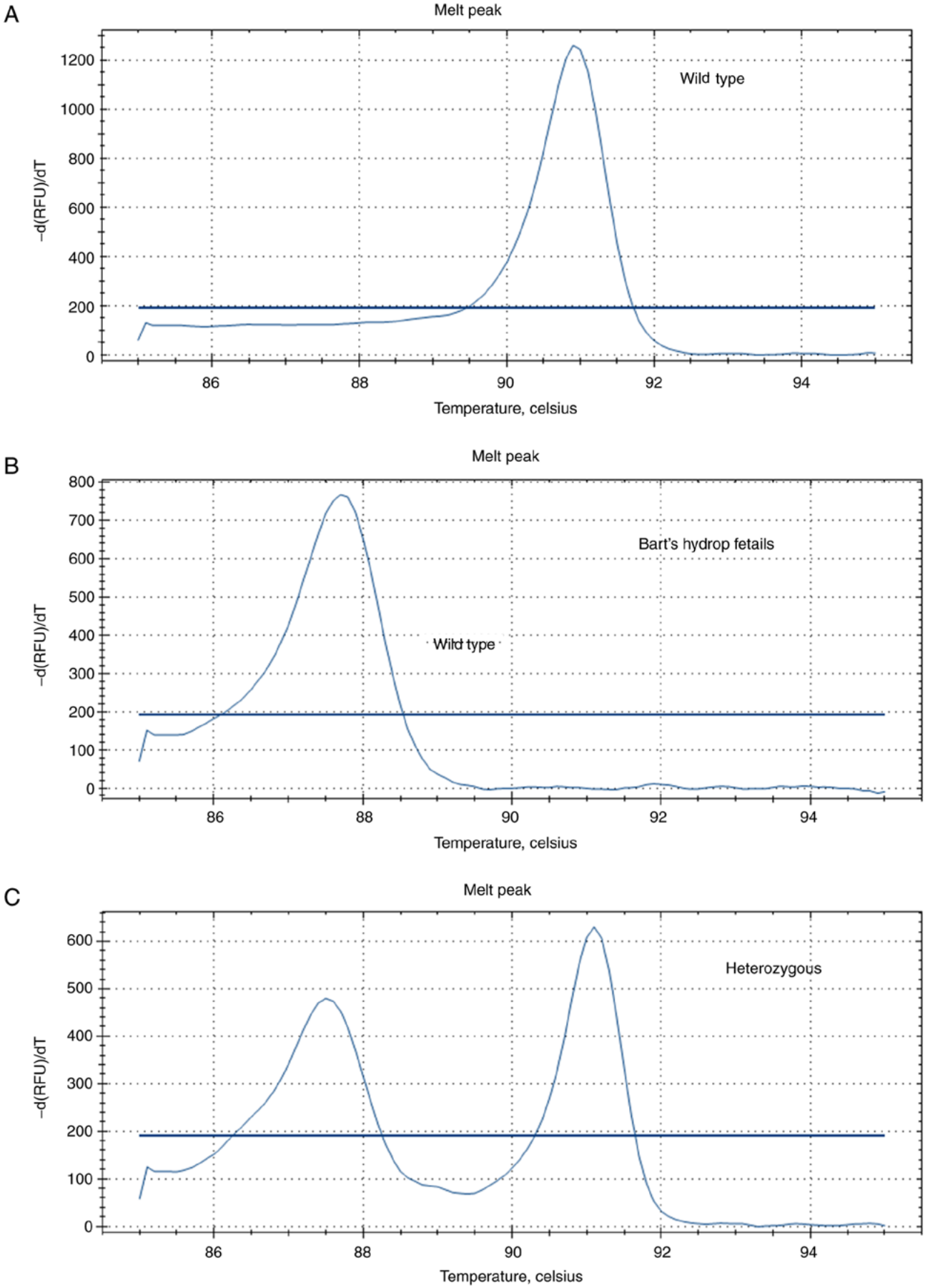

Table SI. Oligonucleotide sequences of the digital droplet PCR probes and the PCR conditions used.

Target	Oligonucleotide probe sequence	Length, bp	Position[a]	PCR conditions
Southeast Asian deletion, CNV	CACCTCCTGGCAACTTGCCAGCCAATGACCC TGCATCCCAGGCATAAGAGCTCCTACTCTCC CCCACCTTTCACTTTTGAGCTTACACAGACT CAGAAATAAGCTGCCGTGGTGCTGTCTCCT	75	chr16:221847-221969 positive strand	95˚C for 10 min; followed by and 40 cycles of 94˚C 30 sec and 54˚C for 1 min; with a final extension step at 98˚C for 10 min.
Wide type, CNV	CAGTATTGGAGGGAAGGAGGGGAGAAGCTGA GTGATGGGTCCGGGGGCTTCGCAGGAACTCG GTCGTCCCCACTGTCGTCGCGGCCTGGGGTT CACTTGGGGGGCGCCTTGGGGAGGTTCTAG	55	chr16:215276-215398 positive strand	95˚C for 10 min; followed by and 40 cycles of 94˚C 30 sec and 54˚C for 1 min; with a final extension step at 98˚C for 10 min.
RASSF1A, CNV	TGCTGTACTGTGAGCCAGCACTCCCTGACCT CAGGGTGTGTGAGGAGTTGGCACTGTAGAGA GAAACCAAGACTCTTCCTCAATGCCTGCCTT ATTCTGAGCACCCACCCTTAGCTCTGATAA	66	chr3:50367475-50367597 negative strand	95˚C for 10 min; followed by and 40 cycles of 94˚C 30 sec and 57˚C for 1 min; with a final extension step at 98˚C for 10 min.
β-actin, CNV	GGTAAGGACAAGTTGGCCCCCACTGCCCCAC CCTTTTGCAGGGTTCACCCTCCTGCAGGGTT CACCCTCTGCTGCCCCCAACCCAGCCACACC ACAAAGTCACACTTGGCCTCATTTTTAAGG	79	chr7:5566668-5566790 negative strand	95˚C for 10 min; followed by and 40 cycles of 94˚C 30 sec and 57˚C for 1 min; with a final extension step at 98˚C for 10 min.
HbE, mutation	AGGAGAAGTCTGCCGTTACTGCCCTGTGGGG CAAGGTGAACGTGGATGAAGTTGGTGGTGA[G>A] GCCCTGGGCAGGTTGGTATCAAGGTTACAAG ACAGGTTTAAGGAGACCAATAGAAACTGGG	69	chr11:5248110-5248232 negative strand	95˚C for 10 min; followed by and 40 cycles of 94˚C 30 sec and 52˚C for 1 min; with a final extension step at 98˚C for 10 min.
41/42, mutation	GCCTATTGGTCTATTTTCCCACCCTTAGGCT GCTGGTGGTCTACCCTTGGACCCAGAGGTT[CTTT/-] GAGTCCTTTGGGGATCTGTCCACTCCTGATG CTGTTATGGGCAACCCTAAGGTGAAGGCTC	96	chr11:5247932-524805 negative strand	95˚C for 10 min; followed by and 40 cycles of 94˚C 30 sec and 52˚C for 1 min; with a final extension step at 98˚C for 10 min.

[a]Nucleotide positions are based on human genome assembly GRCh37 (hg19).