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M S V P V K E L S M T E I R P R T H D D
SG atgtctgttctgtgaaggaattgtcaatgaccgaaatgaccgagaaacacgacgat 60
TH -----

E I G G M K L V V L G K P G R G K S V L
SG gaaatcggagggatgaaattggttgttttgggcaaaccgggctggaaaatcggctcttg 120
TH -----

I K S I I A S K R H L I P A A V V I S G
SG ataaaatcgataatagcatcaaaacgacatttggatccccgcagcggttgtcatttctggt 180
TH -----

S E E A N H F Y S G L V P E C Y I Y S K
SG tcagaagaagccaatcatttctattctgggttagttccagaatgttacatttattccaaa 240
TH -----

F D P D I I T R V K K R Q L E L K H L D
SG tttgaccccgatattattaccagagtcaagaaacgacaactagaattaaaacatctagat 300
TH -----

P K H S W L L L A/V I D D C M D N T K L F
SG cctaaacattcttggctcttattggctcatcgatgattgcatggacaacaccaaattgttt 360
TH -----c-----

N N E V V A D L F K N G R H W N L L V I
SG aataatgaagtagttgctgatttgtttaaaaacggtagacattggaacttgttggtcatt 420
TH -----

I A S Q Y I M D L K A D L R C S I D G V
SG attgctagtacgtacattatggatttaaaagccgatttaagatgttcaatagatggtgta 480
TH -----

F L F S E S N L T S Q E K I Y K Q F G G
SG tttctctttagcgaatctaatttgactagtcaagagaaaatatacaaacagtttggaggt 540
TH -----

K I P K P Q F M L L M E K V T L D Y T C
SG aaaattccaagcctcaatttatgctacttatggagaaagtgcattggattacacttgt 600
TH -----

L Y I D N A S Q T Q H W T E C V R Y Y K
SG ctctacatcgacaacgctagccaaacgcagcactggaccgaatgcgttcgatattacaag 660
TH -----

A P M L T N E D V N F G F A D Y K N S A
SG gcacctatgtaacaaacgaggatgtcaatttggttttgagattataaaaacagcgca 720
TH -----

I A V V E -
SG attgctgttgttgaataa 738
TH -----

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Figure S1. Aligned *ATPase* gene sequences of SDDV strains from Thailand (TH, MH152407) and Singapore (SG, KR139659; ORF_035L) showing regions targeted by primers used in the SYBR-Green qPCR assay described here (shaded) and in the semi-nested PCR described in Charoenwai et al. (2019) (underlined).

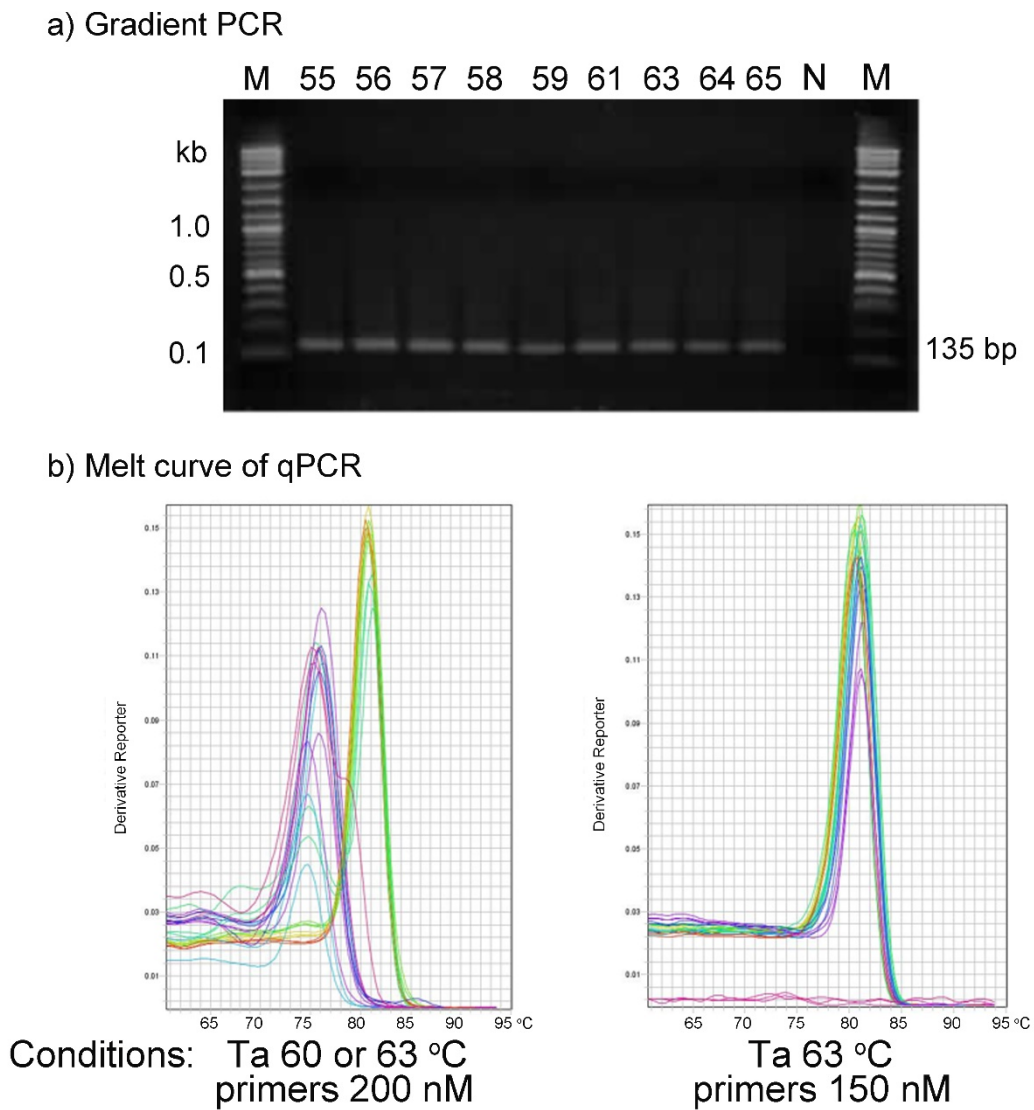


Figure S2. Optimizing the SYBR Green SDDV qPCR conditions. (a) Conventional gradient PCR over a 55-65°C T_a range using the qSDDV-AF/AR primer pair and SDDV-infected fish DNA (N = no template control), (b) Melt curve analysis of products of qPCR assays using a T_a of either 60 or 63°C and 200 nM each primer showing 2 peaks (left) and assays using a 63°C T_a and 150 nM each primer showing a single specific peak (right).

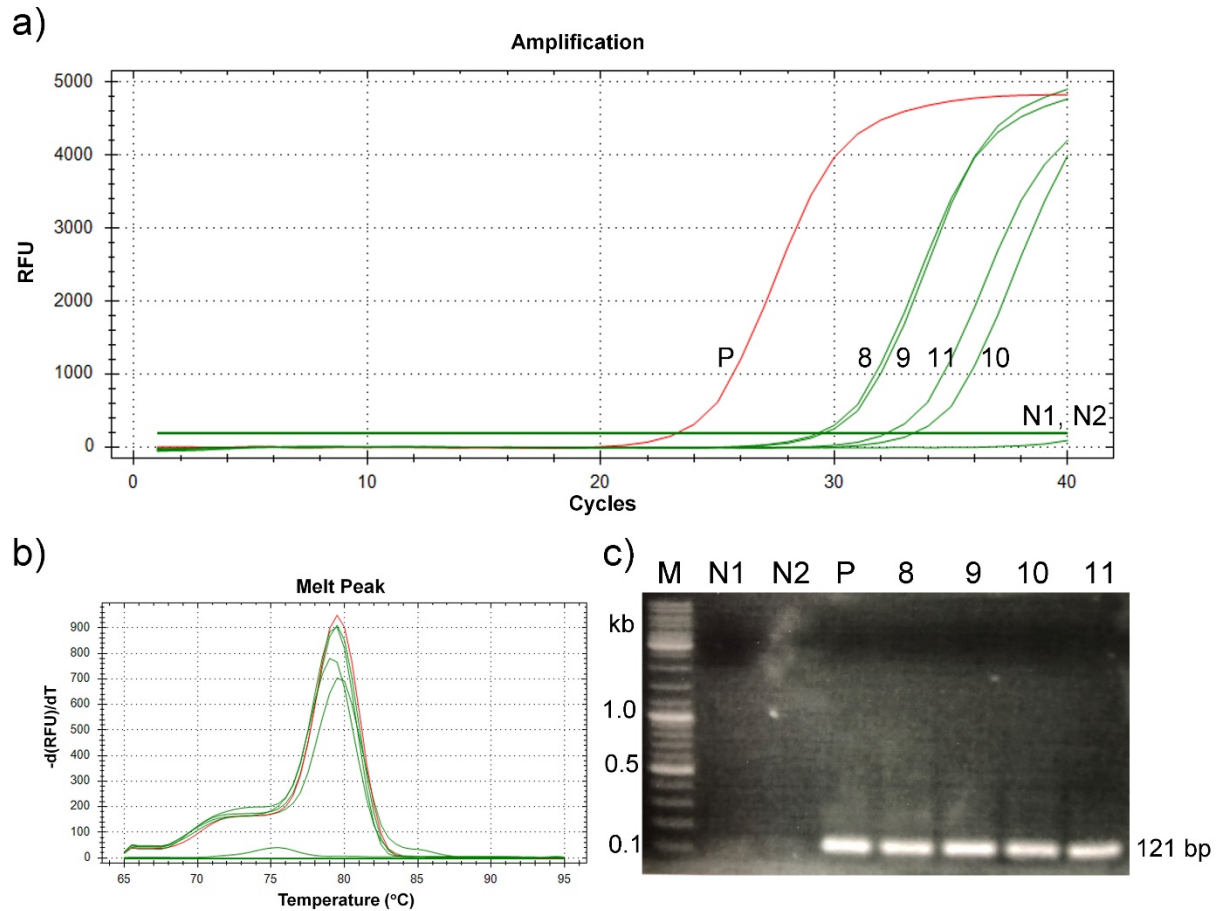


Figure S3. Data from an alternative SDDV SYBR Green qPCR assay using primers targeting the major capsid protein (*MCP*) gene to confirm positives among overtly-healthy fish DNA samples detected using the *ATPase* gene-specific qPCR. Data are shown for representative fish from Farms 8 to 11. P = SDDV positive fish DNA, N1 = no template control, N2 = SDDV-free fish sample. (a) *MCP* gene qPCR amplification plot, (b) melt peak analysis and (c) amplicon (121 bp) detected by electrophoresis in a 1.5% agarose gel.