

JVDI: Supplemental material

Rounsville TF Jr, et al. Rapid differentiation of infectious salmon anemia virus avirulent (HPR0) from virulent (HPR Δ) variants using multiplex RT-qPCR

Supplemental Table 1. The infectious salmon anemia virus (ISAV) sequences we used to develop the HPR-F/HPR-R/HPR0-HE22 hydrolysis probe assay, including the NCBI GenBank accessions, strains, and isolates (when available), locality, and genotype, as well as a hyperlink to the GenBank accession. We aligned >600 sequences and used them as reference material during assay development.

GenBank accession	Strain	Isolate	Locality	Genotype	Link
HQ011267.1		ADL-PM 3205/ISAV-07	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/HQ011267
FJ786983.1		31991-3N	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786983.1
EF105374.1		ILA149	Norway	European	https://www.ncbi.nlm.nih.gov/nuccore/EF105374.1
FN687286.1	ISA2/07-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687286.1
AF302801.1		Gulesfjord/94	Norway		https://www.ncbi.nlm.nih.gov/nuccore/AF302801.1
DQ785255.1		ISAV11(93/09/2264)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785255.1
JN711074.1		T121/07	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711074.1
JN711076.1		T126/07	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711076.1
FN687287.1		ISA2/07-2	Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687287.1
FJ786984.1		Chile	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786984.1
AY127882.1		N5/89			https://www.ncbi.nlm.nih.gov/nuccore/AY127882.1
DQ785247.1		ISAV(H2143/89)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785247.1
KY688256.1		CA/NL/G0011/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688256.1
KY688255.1		CA/NL/G0010/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688255.1

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FJ786980.1		31807-2	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786980.1
KR998473.1		FJ786980.1	Canada		https://www.ncbi.nlm.nih.gov/nuccore/KR998473.1
FJ483819.1		CH3972/08	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ483819.1
FJ483818.1		CH7988/08	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ483818.1
FJ483817.1		CH900/08	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ483817.1
FN687355.1	AR13/08-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687355.1
FN687305.1	ISA1/08		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687305.1
MH397919.1		SF183/13	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397919.1
JN711065.1		MR139/08	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711065.1
FN687354.1	AR13/08-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687354.1
FN687311.1	ISA4/08-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687311.1
FN687310.1	ISA4/08-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687310.1
JN711057.1		FM114/05	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711057.1
JN711068.1		NT115/05	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711068.1
MH397878.1		FM117/06	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397878.1
MH397879.1		FM117/06	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397879.1
JN711058.1		FM116/06	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711058.1
FR751547.1	200601B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR751547.1
FR751546.1	200601A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR751546.1
MH397934.1		N187d/14	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397934.1
MH397932.1		N187b/14	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397932.1
KY688270.1		CA/NL/G0078/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688270.1
KY688246.1		CA/NL/G0078/2015	Canada		https://www.ncbi.nlm.nih.gov/nuccore/KY688246.1
AY127880.1		SF70/02			https://www.ncbi.nlm.nih.gov/nuccore/AY127880.1
MH397930.1		N185b/14	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397930.1
JN711090.1		T161/09	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711090.1
MH708656.1		CA/NB7178/08	Canada	EU-NA	https://www.ncbi.nlm.nih.gov/nuccore/MH708656.1
MH708655.1		CA/NB04-85-1/04	Canada	EU-NA	https://www.ncbi.nlm.nih.gov/nuccore/MH708655.1
MH708654.1		CA/F679/99	Canada	EU-NA	https://www.ncbi.nlm.nih.gov/nuccore/MH708654.1
KY688218.1		CA/NB/G0002/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688218.1

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KY688241.1		CA/NB/G0048/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688241.1
KY688228.1		CA/NB/G0014/2014	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688228.1
AY963263.1		RCP/NB 04-085-1	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY963263.1
DQ785254.1		ISAV10(95)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785254.1
EU849016.1	VT11282007-36	Biovac 26905-1	Chile		https://www.ncbi.nlm.nih.gov/nuccore/EU849016.1
EU999162.1		Aquagestion 13492-9	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/EU999162.1
AF388581.1		301/98	UK: Scotland		https://www.ncbi.nlm.nih.gov/nuccore/AF388581.1
MH397944.1		T191/14	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397944.1
AY127875.1		ST30/97			https://www.ncbi.nlm.nih.gov/nuccore/AY127875.1
DQ785249.1		ISAV5(96/09/768)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785249.1
FJ786977.1		24984-1	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786977.1
AF302803.1		Vedoy/99	Norway		https://www.ncbi.nlm.nih.gov/nuccore/AF302803.1
AY744393.1		SF83/04	Norway		https://www.ncbi.nlm.nih.gov/nuccore/AY744393.1
DQ785245.1		ISAV1(96/09/1712)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785245.1
HE800172.1	SC16 10C		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800172.1
HE800166.1	Sc13 10		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800166.1
HE800161.1	SC9 10A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800161.1
HE800151.1	SC2 09C		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800151.1
HE800150.1	SC2 09B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800150.1
HE800144.1	AR4 08		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800144.1
MH397946.1		T211b/13	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397946.1
MH397945.1		T211a/13	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397945.1
MH397942.1		T176/12	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397942.1
MH397907.1		MR102c/05	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397907.1
FN687357.1	AR26/08-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687357.1
FN687356.1	AR26/08-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687356.1
FN687352.1	AR8/08		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687352.1
FN687348.1	AR2/08		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687348.1
HE800169.1	SC15 10		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800169.1
HE800180.1	IAS6 10A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800180.1

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HE800173.1	SC17 10		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800173.1
HE800171.1	SC16 10B		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800171.1
HE800162.1	SC19 10A		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800162.1
KC907289.1	SCN		Norway	https://www.ncbi.nlm.nih.gov/nuccore/KC907289.1
HE800170.1	SC16 10A		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800170.1
HE800156.1	SC2 10B		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800156.1
HE800154.1	SC1 10		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800154.1
HE800155.1	Sc2 10A		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800155.1
FN687308.1	ISA3/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687308.1
MH397935.1		N188/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397935.1
MH397931.1		N187a/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397931.1
MH397936.1		N189/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397936.1
MH397933.1		N187c/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397933.1
FN687341.1	ISA4/09-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687341.1
FN687340.1	ISA4/09-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687340.1
JN711072.1		NT156/09	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711072.1
JN711071.1		NT155/09	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711071.1
JN711073.1		ST143/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711073.1
FN687319.1	ISA9/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687319.1
FN687320.1	Isa9/08-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687320.1
MH397943.1		T181/13	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397943.1
MH397923.1		N179/13	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397923.1
MK125501.1		T130/07	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MK125501.1
JN711083.1		T148/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711083.1
JN711077.1		T129/07	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711077.1
JN711075.1		T122/07	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711075.1
FN687294.1	ISA6/07-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687294.1
FN687335.1	ISA1/09-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687335.1
FN687332.1	ISA15/08-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687332.1
FN687331.1	ISA15/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687331.1

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FN687329.1	ISA14/08-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687329.1
FN687342.1	ISA5/09-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687342.1
FN687347.1	ISA7/09-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687347.1
MH708660.1		SC0/4750/09	UK		https://www.ncbi.nlm.nih.gov/nuccore/MH708660.1
MH708659.1		SC0/4661/08	UK		https://www.ncbi.nlm.nih.gov/nuccore/MH708659.1
KC907292.1	OBK	OBK4s6	Norway		https://www.ncbi.nlm.nih.gov/nuccore/KC907292.1
KC907291.1	OBK	OBK2s6	Norway		https://www.ncbi.nlm.nih.gov/nuccore/KC907291.1
KC907290.1	OBK	OBK1s6	Norway		https://www.ncbi.nlm.nih.gov/nuccore/KC907290.1
AY646058.1		EF6-6	Canada: Nova Scotia		https://www.ncbi.nlm.nih.gov/nuccore/AY646058.1
AY646059.1		EF5-5	Canada: Nova Scotia		https://www.ncbi.nlm.nih.gov/nuccore/AY646059.1
KC907288.1	SCN	SCN4s6	Norway		https://www.ncbi.nlm.nih.gov/nuccore/KC907288.1
KC907287.1	SCN	SCN2s6	Norway		https://www.ncbi.nlm.nih.gov/nuccore/KC907287.1
KC907286.1	SCN	SCN1s6	Norway		https://www.ncbi.nlm.nih.gov/nuccore/KC907286.1
KY688257.1		CA/NL/G0014/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688257.1
KY688268.1		CA/NL/G0057/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688268.1
KX823922.1		F0/121/14	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823922.1
KX823921.1		F0/07/12	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823921.1
MH286494.1		ST236/13	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286494.1
MH286493.1		ST235/14	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286493.1
KY688243.1		CA/NB/G0051/2012	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688243.1
KY688236.1		CA/NB/G0039/2014	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688236.1
KY688230.1		CA/NB/G0016/2014	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688230.1
KY688223.1		CA/NB/G0009/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688223.1
KY688229.1		CA/NB/G0014/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688229.1
HQ259676.1		Glesvar/2/90	Norway		https://www.ncbi.nlm.nih.gov/nuccore/HQ259676.1
AF220607.1		Glesvaer			https://www.ncbi.nlm.nih.gov/nuccore/AF220607.1
DQ785248.1		ISAV4(90/09/400)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785248.1
MH708657.1		N0/Glesvaer/2/90	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH708657.1
AY151811.1		Glesvaer	Norway		https://www.ncbi.nlm.nih.gov/nuccore/AY151811.1
AJ440972.1		1173/01/09	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/AJ440972.1

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AY127879.1		SF63/01			https://www.ncbi.nlm.nih.gov/nuccore/AY127879.1
AF391126.1		1490/98	UK: Scotland		https://www.ncbi.nlm.nih.gov/nuccore/AF391126.1
HE800179.1		ISA5 10B	Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800179.1
HE800178.1		ISA5 10A	Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800178.1
FN687313.1	ISA5/08-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687313.1
MH397911.1		MR177/12	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397911.1
JN711070.1		NT141/08	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711070.1
MH397941.1		N239/17	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397941.1
MH397893.1		FM208d/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397893.1
MH397892.1		FM208c/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397892.1
MH397891.1		FM208b/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397891.1
MH397890.1		FM208a/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397890.1
FN687312.1	ISA5/08-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687312.1
KX823935.1		F0/178/14	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823935.1
KX823934.1		F0/151/14	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823934.1
KX823932.1		F0/143/14	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823932.1
KY688269.1		CA/NL/G0062/2014	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688269.1
KY688264.1		CA/NL/G0044/2012	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688264.1
KY688248.1		CA/NB/G0087/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688248.1
KY688245.1		CA/NB/G0071/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688245.1
KY688244.1		CA/NB/G0051/2016	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688244.1
KY688233.1		CA/NB/G0020/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688233.1
KY688231.1		CA/NB/G0017/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688231.1
KY688227.1		CA/NB/G0011/2016	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688227.1
KY688258.1		CA/NL/G0015/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688258.1
KX823933.1		F0/144/14	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823933.1
KY688239.1		CA/NB/G0046/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688239.1
KY688251.1		CA/NB/G0095/2016	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688251.1
KY688220.1		CA/NB/G0004/2012	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688220.1
KY688252.1		CA/NB/G0101/2016	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688252.1

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MK125504.1		NT250/18	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MK125504.1
KY688271.1		CA/NL/G0078/2015(B)	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688271.1
AJ440971.1		1703/01/86	UK: Scotland		https://www.ncbi.nlm.nih.gov/nuccore/AJ440971.1
MH286492.1		ST234/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286492.1
MH286491.1		ST207/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286491.1
MH286490.1		ST203/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286490.1
MH286488.1		NT206/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286488.1
MH286487.1		NT205/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286487.1
MH286482.1		NT197/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286482.1
MH286477.1		FM200b/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286477.1
MH286484.1		NT199/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286484.1
MH286483.1		NT198/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286483.1
MH286481.1		FM240/17	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286481.1
MH286479.1		FM202/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286479.1
MH286478.1		FM201/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286478.1
MH286476.1		FM200a/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286476.1
JN711060.1	HPR0	FM173/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711060.1
MH397883.1		FM174f/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397883.1
AY127881.1		MR71/02			https://www.ncbi.nlm.nih.gov/nuccore/AY127881.1
AY127877.1		ST61/01			https://www.ncbi.nlm.nih.gov/nuccore/AY127877.1
AY127878.1		MR62/01			https://www.ncbi.nlm.nih.gov/nuccore/AY127878.1
FJ786978.1		26560-10b	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786978.1
FJ594296.1		Biovac32325-4	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594296.1
KR998476.1		VT03282012-222-C	Canada		https://www.ncbi.nlm.nih.gov/nuccore/KR998476.1
JQ857080.1		VT02142012-90	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/JQ857080.1
FJ594286.1		Biovac31687-3	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594286.1
FJ594287.1		Biovac31687-5	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594287.1
MF314020.1		GIM-16414	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314020.1
FJ594297.1		Biovac30740-3	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594297.1
KX823931.1		F0/95b/14	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823931.1

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FN687353.1	AR9/08 HPR0 genotype		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687353.1
MH397888.1		FM174m/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397888.1
MH397882.1		Fm174e/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397882.1
MH397880.1		FM174c/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397880.1
MH286489.1		NT242/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286489.1
MH286480.1		FM237/17	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286480.1
KX823929.1		F0/570/12	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823929.1
KX823928.1		F0/455/11	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823928.1
KX823927.1		F0/452/11	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/KX823927.1
MH286486.1		NT204b/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH286486.1
FJ178189.1		NWM10	UK		https://www.ncbi.nlm.nih.gov/nuccore/FJ178189.1
AY601904.1		NS 7166-03	Canada: Nova Scotia		https://www.ncbi.nlm.nih.gov/nuccore/AY601904.1
AF294881.2		U5575-1	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294881.2
KY688274.1		CA/NS/G0018/2012	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688274.1
KY688273.1		CA/NS/G0017/2014	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688273.1
KY688238.1		CA/NB/G0045/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688238.1
KY688249.1		CA/NB/G0089/2016	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688249.1
KY688235.1		CA/NB/G0029/2013	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688235.1
KY688226.1		CA/NB/G011/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688226.1
KY688225.1		CA/NB/G0010/2016	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688225.1
KY688222.1		CA/NB/G0008/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688222.1
KY688247.1		CA/NB/G0085/2015	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688247.1
KY688232.1		CA/NB/G0018/2014	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688232.1
KY688242.1		CA/NB/G0050/2016	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688242.1
KY688219.1		CA/NB/G003/2014	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/KY688219.1
AY151813.1		Nova Scotia	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY151813.1
AY646062.1		NB753-2	Canada: New Brunswick		https://www.ncbi.nlm.nih.gov/nuccore/AY646062.1
JN711062.1		FM174b/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711062.1
MH397886.1		FM174j/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397886.1
MH397885.1		FM174i/11	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397885.1

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JN711086.1		T152/09	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711086.1
JN711080.1		T144/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711080.1
FN687328.1	ISA13/08-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687328.1
FN687327.1	ISA13/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687327.1
FJ594284.1		13364-2006B	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ594284.1
MH986019.1		H248/18	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH986019.1
JN711085.1		T151/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711085.1
FN687293.1	ISA5/07-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687293.1
FN687288.1	ISA3/07-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687288.1
FN687324.1	ISA11/08-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687324.1
FN687323.1	ISA11/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687323.1
FN687296.1	ISA6/07-3		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687296.1
FN687298.1	ISA6/07-5		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687298.1
FN687297.1	ISA6/07-4		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687297.1
FN687295.1	ISA6/07-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687295.1
FN687334.1	ISA1/09-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687334.1
FN687337.1	ISA2/09-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687337.1
FN687336.1	ISA2/09-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687336.1
FN687289.1	ISA3/007-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687289.1
FN687292.1	ISA5/07-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687292.1
FN687300.1	ISA6/07-7		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687300.1
FN687302.1	ISA6/07-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687302.1
FN687299.1	ISA6/07-6		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687299.1
FN687351.1	AR7/08 HPR0 genotype		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687351.1
FN687350.1	AR5/08 HPR0 genotype		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687350.1
JN711059.1		FM168/19	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711059.1
MH397881.1		FM174d/11	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397881.1
HE800177.1	ISA4 10B		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800177.1
HE800176.1	ISA4 10A		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800176.1
MH397884.1		FM174g/11	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397884.1

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MH397887.1		FM174k/11	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397887.1
JN711061.1		FM174a/11	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711061.1
MH397889.1		FM174n/11	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397889.1
JN711092.1		T167/10	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711092.1
JN711088.1		Y158/09	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711088.1
JN711089.1		T169/09	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711089.1
JN711087.1		T154/09	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711087.1
JN711084.1		T149/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711084.1
JN711082.1		T147/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711082.1
JN711081.1		T145/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711081.1
JN711079.1		T140/08	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711079.1
FN687325.1	ISA12/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687325.1
FN687322.1	ISA10/08-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687322.1
FN687321.1	ISA10/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687321.1
FN687326.1	ISA12/08-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687326.1
FN687339.1	ISA3/09-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687339.1
FN687345.1	ISA6/09-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687345.1
FN687346.1	ISA7/09-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687346.1
FN687349.1	AR3/08		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687349.1
FN687301.1	ISA6/07-8		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687301.1
FN687338.1	ISA3/09-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687338.1
FN687306.1	ISA2/08-1		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687306.1
FN687330.1	ISA14/08-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687330.1
KC907293.1	OBK	OBK3s6	Norway	https://www.ncbi.nlm.nih.gov/nuccore/KC907293.1
FN687343.1	ISA5/09-2		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687343.1
KJ563139.1		GIM-17600	Chile	https://www.ncbi.nlm.nih.gov/nuccore/KJ563139.1
MF314035.1		GIM-17906	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314035.1
MF314034.1		GIM-17904	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314034.1
MF314006.1		GIM_HPR7a	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314006.1
KR998478.1		VT05252012-337G	Canada	https://www.ncbi.nlm.nih.gov/nuccore/KR998478.1

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KR998474.1		VT05252012-336G	Canada		https://www.ncbi.nlm.nih.gov/nuccore/KR998474.1
AF378179.1		835/9/98	Norway		https://www.ncbi.nlm.nih.gov/nuccore/AF378179.1
AF378180.2		810/9/99	Norway		https://www.ncbi.nlm.nih.gov/nuccore/AF378180.2
DQ118254.1		T85B/04	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ118254.1
EF105373.1		ILA36	Norway	European	https://www.ncbi.nlm.nih.gov/nuccore/EF105373.1
AF302799.1		Bremnes/98	Norway		https://www.ncbi.nlm.nih.gov/nuccore/AF302799.1
DQ118255.1		SF113/04	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ118255.1
FN687318.1	ISA8/08		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687318.1
DQ785257.1		Vir28(94/09/579)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785257.1
FR751551.1	200603B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR751551.1
FR751550.1	200603B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR751550.1
KR998475.1		VT08092012-449	Canada		https://www.ncbi.nlm.nih.gov/nuccore/KR998475.1
FN687285.1	ISA1/07-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687285.1
KR998479.1		VT12212012-1068	Canada		https://www.ncbi.nlm.nih.gov/nuccore/KR998479.1
HE800158.1	SC5 10		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800158.1
JQ857079.1		VT02142012-52	Canada	European	https://www.ncbi.nlm.nih.gov/nuccore/JQ857079.1
FR796472.1	ISA8_09-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR796472.1
FR796471.1	ISA8_09-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR796471.1
KR998477.1		VT03282012-222-E	Canada		https://www.ncbi.nlm.nih.gov/nuccore/KR998477.1
MH397912.1		R171/07	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397912.1
JQ857081.1		CT02142012-120	Canada		https://www.ncbi.nlm.nih.gov/nuccore/JQ857081.1
FJ786988.1		32246	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786988.1
FJ594292.1		Biovac30942/943	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594292.1
EU625666.1	VT11282007-35	Biovac 26560-10	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/EU625666.1
EU625667.1	VT11282007-38	Biovac 26936-1	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/EU625667.1
MF325015.1		GIM-21310	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF325015.1
MH397920.1		SF210a/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397920.1
JN711078.1		T131/07	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711078.1
MF314047.1		GIM-20064	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314047.1
MF314011.1		GIM-20034	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314011.1

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MF314012.1		GIM-13552	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314012.1
JN711093.1		CH05/08	Chile		https://www.ncbi.nlm.nih.gov/nuccore/JN711093.1
MF314046.1		GIM-19962	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314046.1
MF314044.1		GIM-19958	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314044.1
MF314045.1		GIM-19960	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314045.1
DQ785250.1		ISAV6(96/09/734)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785250.1
FN687304.1	ISA7/07-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687304.1
FN687303.1	ISA7/07-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687303.1
DQ785251.1		ISAV7(96/09/1729)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785251.1
FJ786974.1		30735-2c	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786974.1
MF325013.1		GIM-21038	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF325013.1
MF325012.1		GIM-21036	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF325012.1
FJ786970.1		26416-6	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786970.1
FJ594285.1		Biovac33004-2	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594285.1
KF386112.1		CGA/3016-3	Chile		https://www.ncbi.nlm.nih.gov/nuccore/KF386112.1
KF373265.1		CGA/3688-2	Chile		https://www.ncbi.nlm.nih.gov/nuccore/KF373265.1
KF373257.1		CGA/3016-3	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF373257.1
KF051892.1		CGA/Ch78-14	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051892.1
KF051891.1		CGA/Ch78-12	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051891.1
KF051883.1		CGA/Ch78-2	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051883.1
KF051880.1		CGA/Ch77-17	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051880.1
KF051886.1		CGA/Ch78-6	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051886.1
KF051900.1		CGA/Ch87-33	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051900.1
KF051887.1		CGA/Ch78-7	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051887.1
KF051897.1		CGA/Ch87-27	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051897.1
KF051893.1		CGA/Ch78-15	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051893.1
KF051895.1		CGA/Ch78-17	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051895.1
KF051885.1		CGA/Ch78-5	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051885.1
KF051873.1		CGA/Ch26-8	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051873.1
KF051881.1		CGA/Ch77-18	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051881.1

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KF051884.1		CGA/Ch78-3	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051884.1
KF051882.1		CGA/Ch78-1	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051882.1
KF051894.1		CGA/Ch78-16	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051894.1
KF051898.1		CGA/Ch87-28	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051898.1
KF051889.1		CGA/Ch78-10	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051889.1
KF051899.1		CGA/Ch78-30	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051899.1
KF373259.1		CGA/3201-5	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF373259.1
KF051896.1		CGA/Ch87-25	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051896.1
KF051890.1		CGA/Ch78-11	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051890.1
KF051888.1		CGA/Ch78-8	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051888.1
KF373255.1		CGA/Ch1420-3	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF373255.1
KF373253.1		CGA/Ch1390-112	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF373253.1
HE800145.1	SC1 06		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800145.1
MH397897.1		FM215/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397897.1
MH397895.1		FM213/16	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397895.1
EU118820.1		SK779/06 (HPR0 type)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/EU118820.1
HE800149.1		SC1 09	Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800149.1
FN687284.1		ISA1/07-1	Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687284.1
FR796469.1	200305A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR796469.1
FR796470.1	200305B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FR796470.1
KF051871.1		CGA/Ch26-5	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051871.1
JN711096.1	HPR0	Scoy157/08	UK: Scotland		https://www.ncbi.nlm.nih.gov/nuccore/JN711096.1
KF019742.1		CGA/ID758	Chile		https://www.ncbi.nlm.nih.gov/nuccore/KF019742.1
KF051858.1		CGA/Ch1504	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051858.1
KF051856.1		CGA/Ch15-2	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051856.1
KF051861.1		CGA/Ch15-7	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051861.1
KF051864.1		CGA/Ch15-10	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051864.1
KF051863.1		CGA/Ch15-9	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051863.1
KF051865.1		CGA/Ch15-11	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051865.1
KF051868.1		CGA/Ch15-14	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/KF051868.1

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KF051859.1	CGA/Ch15-5	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051859.1
KF051862.1	CGA/Ch15-8	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051862.1
KF051866.1	CGA/Ch15-12	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051866.1
KF051869.1	CGA/Ch15-15	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051869.1
KF051870.1	CGA/Ch15-16	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051870.1
KF051855.1	CGA/Ch15-1	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051855.1
KF051867.1	CGA/Ch15-13	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051867.1
KF051860.1	CGA/Ch15-16	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051860.1
KF373261.1	CGA/3663-2	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF373261.1
KF373260.1	CGA/3663-1	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF373260.1
KF413751.1	CGA/Ch1673-5	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF413751.1
FJ786968.1	29002	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ786968.1
MF314005.1	GIM-HPR3a	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314005.1
KF051874.1	CGA/Ch71-4	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051874.1
KF051875.1	CGA/Ch71-4	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051875.1
KF051876.1	CGA/Ch17-7	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051876.1
KF051877.1	CGA/Ch71-8	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051877.1
KF051878.1	CGA/Ch71-9	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/KF051878.1
MF314030.1	GIM-17176	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314030.1
MF314029.1	GIM17174	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314029.1
MF314008.1	GIM-HPR14a	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314008.1
MF314022.1	GIM-17169	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314022.1
MF314026.1	GIM-17168	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314026.1
MF314025.1	GIM-17166	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314025.1
MF314023.1	GIM-17162	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314023.1
MF314024.1	GIM-17164	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314024.1
MF314036.1	GIM-19356	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314036.1
MF314028.1	GIM-17172	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314028.1
MF314027.1	GIM-17170	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314027.1
MF314015.1	GIM-14332	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314015.1

Salmon isavirus phenotype multiplex RT-qPCR

MF325014.1		GIM-21280	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF325014.1
MF314010.1		GIM-19336	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314010.1
MF314016.1		GIM-14542	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314016.1
MK125503.1		T136/07	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MK125503.1
MK125502.1		T132/07	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MK125502.1
MH397928.1		N184/14	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397928.1
MH397927.1		N182/13	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397927.1
MH397899.1		H238/13	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397899.1
JN711063.1		H138/08	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711063.1
HE800148.1		SC1 08B	Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800148.1
MH986021.1		SF246b/18	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH986021.1
MH397921.1		SF210b/15	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397921.1
MF314014.1		GIM-14046	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314014.1
HE800165.1	SC12 10B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800165.1
HE800164.1	SC12 10A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800164.1
HE800160.1	SC7 10		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800160.1
HE800159.1	SC6 10		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800159.1
HE800157.1	SC4 10		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800157.1
HE800153.1	SC3 09B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800153.1
HE800152.1	SC3 09A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800152.1
HE800147.1	SC1 08A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800147.1
MH397904.1		H97e/04	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH397904.1
HE800168.1	SC14 10B		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800168.1
HE800167.1	SC14 10A		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800167.1
HE800163.1	SC11 10		Norway		https://www.ncbi.nlm.nih.gov/nuccore/HE800163.1
MH986020.1		SF24a/18	Norway		https://www.ncbi.nlm.nih.gov/nuccore/MH986020.1
DQ785252.1		ISAV8(97/09/615)	Norway		https://www.ncbi.nlm.nih.gov/nuccore/DQ785252.1
EU625673.1	VT1128007-39	Biovac 26936-2	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/EU625673.1
AY127876.1		MR60/01			https://www.ncbi.nlm.nih.gov/nuccore/AY127876.1
MF314041.1		GIM-19380	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314041.1

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FN687333.1	ISA16/08		Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687333.1
MF314042.1		GIM-19382	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314042.1
MF314043.1		GIM-19384	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314043.1
MF314037.1		GIM-19372	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314037.1
MF314039.1		19376	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314039.1
MF314040.1		GIM-19378	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314040.1
MF314038.1		GIM-19374	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314038.1
MH397917.1		RU244/17	Russia	https://www.ncbi.nlm.nih.gov/nuccore/MH397917.1
MH397916.1		RU243/17	Russia	https://www.ncbi.nlm.nih.gov/nuccore/MH397916.1
MH397914.1		R230/17	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397914.1
MH397915.1		R231/170	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397915.1
MH397926.1		N180c/13	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397926.1
MH397924.1		N180a/13	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397924.1
FJ594294.1		Biovac32980-5	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ594294.1
MH397900.1		H245/18	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397900.1
DQ785253.1		ISAV9 (93/09/2163)	Norway	https://www.ncbi.nlm.nih.gov/nuccore/DQ785253.1
KF051872.1		CGA/Ch2606	Chile	https://www.ncbi.nlm.nih.gov/nuccore/KF051872.1
MH397918.1		SF175/11	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397918.1
HE800146.1	SC2 06		Norway	https://www.ncbi.nlm.nih.gov/nuccore/HE800146.1
MH397913.1		R229/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397913.1
MH397909.1		MR102e/05	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397909.1
MH397908.1		MR102d/05	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397908.1
MH397906.1		MR102b/05	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397906.1
MH397896.1		FM214/16	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397896.1
MH397894.1		FM212/16	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397894.1
JN711091.1		T162/09	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711091.1
JN711064.1		H172/10	Norway	https://www.ncbi.nlm.nih.gov/nuccore/JN711064.1
JN711094.1		CH29/08	Chile	https://www.ncbi.nlm.nih.gov/nuccore/JN711094.1
MH397922.1		SF233/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397922.1
MG976853.1	NO/Lofoten/NVI-70-231/2015		Norway	https://www.ncbi.nlm.nih.gov/nuccore/MG976853.1

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MG976852.1	NO/Lofoten/NVI-70-201/2015		Norway	https://www.ncbi.nlm.nih.gov/nuccore/MG976852.1
MG976854.1	NO/Lofoten/NVI-02-149/2015		Norway	https://www.ncbi.nlm.nih.gov/nuccore/MG976854.1
MH397929.1		N185a/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397929.1
MH397938.1		N193/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397938.1
MH397937.1		N190/14	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397937.1
MH397939.1		N194/15	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397939.1
MH397940.1		N196/15	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397940.1
MH397925.1		N180b/13	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397925.1
EU999161.1	VT06132008-129		Chile	https://www.ncbi.nlm.nih.gov/nuccore/EU999161.1
MF314017.1		GIM-16334	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314017.1
FJ786972.1		27102-1	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ786972.1
FJ786971.1		26905-10b	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ786971.1
MF314018.1		GIM-16358	Chile	https://www.ncbi.nlm.nih.gov/nuccore/MF314018.1
KF156954.1		T48-F169	Chile	https://www.ncbi.nlm.nih.gov/nuccore/KF156954.1
KF156953.1		T48-F166	Chile	https://www.ncbi.nlm.nih.gov/nuccore/KF156953.1
KF156952.1		T12-F164	Chile	https://www.ncbi.nlm.nih.gov/nuccore/KF156952.1
KF156951.1		TE-F11	Chile	https://www.ncbi.nlm.nih.gov/nuccore/KF156951.1
KM262777.1		901_09	Chile	https://www.ncbi.nlm.nih.gov/nuccore/KM262777.1
FJ594282.1		Biovac31606-H	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ594282.1
FJ594283.1		Biovac31682-10	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ594283.1
FJ594291.1		Biovac31606-L	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ594291.1
FJ594288.1		Biovac31686-2	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ594288.1
MH397903.1		H97d/04	Norway	https://www.ncbi.nlm.nih.gov/nuccore/MH397903.1
FN687291.1		ISA4/07-2	Norway	https://www.ncbi.nlm.nih.gov/nuccore/FN687291.1
AY151812.1		Loch Nevis	UK: Scotland	https://www.ncbi.nlm.nih.gov/nuccore/AY151812.1
EU625671.1	VT11152007-031	Biovac 26830	Chile	https://www.ncbi.nlm.nih.gov/nuccore/EU625671.1
EU625675.1	VT11052007-27	Biovac 2666-1	Chile	https://www.ncbi.nlm.nih.gov/nuccore/EU625675.1
EU849012.1	VT04222008-106	Biovac 1508 6	Chile	https://www.ncbi.nlm.nih.gov/nuccore/EU849012.1
FJ594317.1		Biovac31589-17	Chile	https://www.ncbi.nlm.nih.gov/nuccore/FJ594317.1

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EU271682.1		Biovac 26572	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU271682.1
MF314009.1		GIM-13968	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314009.1
EU849018.1	VT05202008	Biovac 30290-5	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU849018.1
EU849017.1	VT05202008-111	Biovac 30290-2	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU849017.1
EU849013.1	VT04222008	Biovac 1508-7	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU849013.1
FJ594323.1		Biovac32913-66	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594323.1
EU625670.1		Biovac 26829-2	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU625670.1
EU625668.1	VT11282007-35 cell culture	Biovac 26560-10	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU625668.1
EU625677.1	VT11282007-38 cell culture	Biovac 26936-1	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU625677.1
EU625674.1	VT11282007-033	Biovac 26416-6	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/EU625674.1
EU625678.1	VT11282007-040	Biovac 26955-1	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/EU625678.1
EU625669.1	VT11282007-36	Biovac 26905-1	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/EU625669.1
MF314013.1		GIM-13970	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314013.1
AJ276859.1		390/98	UK: Scotland		https://www.ncbi.nlm.nih.gov/nucleotide/AJ276859.1
FJ594315.1		Biovac32916-1	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594315.1
AF449423.1		RPC/NB-00 1025-1	Canada		https://www.ncbi.nlm.nih.gov/nucleotide/AF449423.1
FJ594300.1		Biovac31589-16	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594300.1
FJ594333.1		Biovac31588-14	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594333.1
EU849015.1	VT11282007-034	Biovac 26560-4	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU849015.1
EU849014.1	VT11282007-032	Biovac 26416-5	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU849014.1
EU625680.1	VT11282007-043	Biovac 26955-4	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU625680.1
EU625676.1	VT11282007-07	Biovac 26905-10	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU625676.1
FJ594328.1		Biovac31587-8	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594328.1
FJ594325.1		Biovac32719-108	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594325.1
FJ594319.1		Biovac33064-107	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594319.1
FJ594316.1		Biovac3303-4	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594316.1
FJ594306.1		Biovac30741-8	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594306.1
FJ594301.1		Biovac32089-P1	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594301.1
FJ594295.1		PM-4165 #11	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594295.1

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EU625672.1	Biovac 27615-5	Chile	European	https://www.ncbi.nlm.nih.gov/nucleotide/EU625672.1
MF314007.1	GIM-HPR7b	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/MF314007.1
MN885652.1	ISAV_752			https://www.ncbi.nlm.nih.gov/nucleotide/MN885652.1
MH397905.1	H97f/04	Norway		https://www.ncbi.nlm.nih.gov/nucleotide/MH397905.1
FJ594311.1	Biovac31647-3	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594311.1
AF302802.1	Loch Nevis/98	UK: Scotland		https://www.ncbi.nlm.nih.gov/nucleotide/AF302802.1
AF283997.2	390/98	UK: Scotland		https://www.ncbi.nlm.nih.gov/nucleotide/AF283997.2
AF395337.1	912/99	UK: Scotland		https://www.ncbi.nlm.nih.gov/nucleotide/AF395337.1
AF388582.1	832/98	UK: Scotland		https://www.ncbi.nlm.nih.gov/nucleotide/AF388582.1
HE800174.1	ISA9 09A	Norway		https://www.ncbi.nlm.nih.gov/nucleotide/HE800174.1
HE800175.1	ISA9 09B	Norway		https://www.ncbi.nlm.nih.gov/nucleotide/HE800175.1
FJ594309.1	Biovac33059-2	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594309.1
FJ594331.1	Biovac31591-6	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594331.1
FJ594312.1	Biovac31590-20	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594312.1
FJ594329.1	Biovac31590-18	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594329.1
FJ594327.1	Biovac31685-1	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594327.1
FJ594322.1	Biovac32232-2032LK	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594322.1
FJ594320.1	Biovac31591-7	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594320.1
FJ594304.1	Biovac31790-3GH	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594304.1
FJ594302.1	Biovac31790-9GH	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594302.1
EU851043.1	CH01/08	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/EU851043.1
FJ594314.1	Biovac32232-2044K	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594314.1
FJ594324.1	Biovac31649-9	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594324.1
FJ594308.1	Biovac31647.8GH	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594308.1
FJ594334.1	Biovac31648-3GH	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594334.1
FJ594321.1	Biovac31905-7Cz	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594321.1
FJ594318.1	Biovac31648-5GH	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594318.1
FJ594313.1	Biovac31905-9Cz	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594313.1
FJ594303.1	Biovac29560-2H	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594303.1
FJ594330.1	Biovac31587-9	Chile		https://www.ncbi.nlm.nih.gov/nucleotide/FJ594330.1

Salmon isavirus phenotype multiplex RT-qPCR

FJ594326.1		PM-4165 #8	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594326.1
FJ594310.1		Biovac31685-3	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594310.1
GU830900.1		752	Chile		https://www.ncbi.nlm.nih.gov/nuccore/GU830900.1
FJ594299.1		Biovac31689-1	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594299.1
FJ594298.1		Biovac31689-4	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594298.1
MF314033.1		GIM-17634	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314033.1
MF314032.1		GIM-17632	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314032.1
MF314031.1		GIM-17626	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314031.1
MF314048.1		GIM-20356	Chile		https://www.ncbi.nlm.nih.gov/nuccore/MF314048.1
JN711069.1		NT134/08	Norway		https://www.ncbi.nlm.nih.gov/nuccore/JN711069.1
FN687317.1	ISA7/08-2		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687317.1
FJ786969.1		32141	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ786969.1
FN687316.2	ISA7/08-1		Norway		https://www.ncbi.nlm.nih.gov/nuccore/FN687316.2
FJ594332.1		Biovac33004-21	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594332.1
EU625681.1		Biovac 26955-5	Chile	European	https://www.ncbi.nlm.nih.gov/nuccore/EU625681.1
GU830908.1		901	Chile		https://www.ncbi.nlm.nih.gov/nuccore/GU830908.1
FJ594307.1		Biovac31667-5GH	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594307.1
FJ594305.1		Biovac31667-3GH	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594305.1
FJ594293.1		Biovac31682-5	Chile		https://www.ncbi.nlm.nih.gov/nuccore/FJ594293.1
JN711095.1	HPR0	Ch30/80	Chile		https://www.ncbi.nlm.nih.gov/nuccore/JN711095.1
KY688275.1		CA/OEI/G0057/2014	North America		https://www.ncbi.nlm.nih.gov/nuccore/KY688275.1
KY688272.1		CA/NS/G0003/2012	North America		https://www.ncbi.nlm.nih.gov/nuccore/KY688272.1
KY688224.1		CA/NB/G0010/2015	North America		https://www.ncbi.nlm.nih.gov/nuccore/KY688224.1
KY688267.1		CA/NL/G0051/2013	North America		https://www.ncbi.nlm.nih.gov/nuccore/KY688267.1
KY688265.1		CA/NL/G0050/2012	North America		https://www.ncbi.nlm.nih.gov/nuccore/KY688265.1
KY688261.1		CA/NL/G0026/2013	North America		https://www.ncbi.nlm.nih.gov/nuccore/KY688261.1
KY688259.1		CA/NL/G0018/2013	North America		https://www.ncbi.nlm.nih.gov/nuccore/KY688259.1
AY151815.1		NB028	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY151815.1
AY151814.1		NB877	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY151814.1
AY151809.1		NB280	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY151809.1

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AF294870.1	RPC/NB-280-2	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294870.1
KU587561.1	CA/NS/2012-21/2012	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KU587561.1
KY688253.1	CA/NB/G0115/2016	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688253.1
KY688250.1	CA/NB/G0094/2016	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688250.1
KY688237.1	CA/NB/G0040/2016	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688237.1
KY688234.1	CA/NB/G0029/2012	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688234.1
KY688260.1	CA/NL/G0018/2013	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688260.1
KY688262.1	CA/NL/G0026/2013 (B)	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688262.1
KY688263.1	CA/NL/G0028/2013	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688263.1
KY688221.1	CA/NB/G0004/2015	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KY688221.1
AF283996.1	NBIA01	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF283996.1
EU267932.1	MT06010401-6	USA		https://www.ncbi.nlm.nih.gov/nuccore/EU267932.1
EU267933.1	MT06012702-3	USA		https://www.ncbi.nlm.nih.gov/nuccore/EU267933.1
KU587569.1	CA/NS/G0008/2012	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KU587569.1
AF294878.1	HKS-36	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294878.1
AY963264.1	RCP/NB 02-1179-4	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/AY963264.1
AF294871.1	RCP/NB-028-10	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294871.1
AF294876.1	RCP/NB-049	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294876.1
EF105375.1	NB-RT#5	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/EF105375.1
AF294875.1	RCP/NB-002-2	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294875.1
KX424587.1	ISAV NA-HPR4 (970-1)	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KX424587.1
NC_006499.1	CCBB	Canada		https://www.ncbi.nlm.nih.gov/nuccore/NC_006499.1
AF404342.1	CCBB	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF404342.1
HQ011275.1	NBISA01	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/HQ011275.1
AY963265.1	RCP/NB 02-0775-14	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/AY963265.1
AY062035.1	RCP/NB-010651-1	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY062035.1
AY062034.1	RCP/NB-010645-1	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY062034.1
AY963266.1	RCP/NB 01-0973-3	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/AY963266.1
AY062033.1	RCP/NB-010593-1	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AY062033.1
AF297551.1	GA/T0 FISH03	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF297551.1

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AF294880.1		RCP/NB-990-681-3	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294880.1
AF294879.1		7833-1	Chile		https://www.ncbi.nlm.nih.gov/nuccore/AF294879.1
AF294877.1		RCP/NB-877	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294877.1
AF294874.1		RCP/NB-990-508-3	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294874.1
AF294873.1		RCP/NB-458	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294873.1
AF294872.1		DF0-1	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF294872.1
AF283995.1		Back Bay 98	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF283995.1
AY059402.1		ME/01			https://www.ncbi.nlm.nih.gov/nuccore/AY059402.1
AF302800.1		Bay of Fundy/97	Canada		https://www.ncbi.nlm.nih.gov/nuccore/AF302800.1
EF105376.1		RCP/NB-04-0416-6	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/EF105376.1
KU587577.1		CA/NL/G0010/2012	Canada	North America	https://www.ncbi.nlm.nih.gov/nuccore/KU587577.1
HM172543.1		U31577	Canada		https://www.ncbi.nlm.nih.gov/nuccore/HM172543.1
HM172541.1		U27573	Canada		https://www.ncbi.nlm.nih.gov/nuccore/HM172541.1
MT997778.1	N0/Finnmark/NVI-70-820-2020		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MT997778.1
MT613041.1	N0/Salten/NVI-70-595/2020		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MT613041.1
AJ440970.1		1173/01/12	Faroe Islands		https://www.ncbi.nlm.nih.gov/nuccore/AJ440970.1
MT413443.1	N0/Finnmark/NVI-70-72/2020		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MT413443.1
MN901922.1	N0/Finnmark/NVI-04-56129/2019		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MN901922.1
MN901918.1	N0/Sor-Troms/NVI-70-1302/2019		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MN901918.1
MK216313.1	N0/Nordfjord/NVI-50-202/2018		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MK216313.1
MK216321.1	N0/Midthordland/NVI-50-542/2018		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MK216321.1
MK216310.1	N0/Sunnhordland/NVI-50-323/2017		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MK216310.1
MK216308.1	N0/Lofoten/NVI-02-67/2017		Norway		https://www.ncbi.nlm.nih.gov/nuccore/MK216308.1

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MK216307.1	N0/Salten/NVI-70-1297/2016		Norway	https://www.ncbi.nlm.nih.gov/nucleotide/MK216307.1
MK216303.1	N0/Vesteralen/NVI-70-9227/2013		Norway	https://www.ncbi.nlm.nih.gov/nucleotide/MK216303.1
MK216304.1	N0/Lofoten/NVI-70-2774/2014		Norway	https://www.ncbi.nlm.nih.gov/nucleotide/MK216304.1
MK216305.1	N0/Helgeland/NVI-70-1169/2015		Norway	https://www.ncbi.nlm.nih.gov/nucleotide/MK216305.1
AJ276859.1		390/98	Scotland	https://www.ncbi.nlm.nih.gov/nucleotide/AJ276859.1

Supplemental Table 2. The same samples used for the inter-laboratory specificity testing of the new ISAV multiplex assay that we developed, undertaken at the Technical University of Denmark (DTU). When available, we identified samples by GenBank accession. We also provided the number of isolates in each category, geographic origin, and strain. In the final 2 columns we recorded the qualitative results of the generic ISAV segment 8 assay (404F_ISA8/583R_ISA8/491_ISA8)⁷ that was designed to amplify any strain of ISAV, followed by the results for the ISAV-HPR0 specific assay we developed in this research.

Sample ID or GenBank accession	Isolates	Geographic origin	Strain	Generic ISAV assay result	HPR0 assay result
MK216303, MK216305, MK216306, MK216307, MK216308, MK216310, MK216321, MK216313, MN901913/MN901918, MN901916/MN901921, MN901917/MN901922, MT413436/MT413443, MT413437/MT413444, MT613037/MT613041, MT990389/MT997778	15	Norway	ISAV-HPRΔ	+	-
MT990384/MT997773	1	Norway	ISAV-HPR0	+	+
2018-50-202_1*+ 2020-02-10_4*	1	Norway	Mix of ISAV-HPRΔ & ISAV-HPR0	+	+
AJ276859	1	Scotland	ISAV-HPRΔ	+	-
Negative <i>Salmo salar</i> gills and cells*	2	Denmark	Negative controls	-	-

* Samples provided from the National Institute of Aquatic Resources at the Technical University of Denmark (DTU) without sequences uploaded to NCBI GenBank.

Supplemental Table 3. Sensitivity comparison between the generic ISAV segment 8 assay⁷ and the ISAV-HPR0 assay that we developed. We completed 10 replicates at each of the different dilution amounts of artificial positive control (APC). We recorded the mean Cq value for each dilution for both the generic ISAV assay and the ISAV-HPR0 specific assay and the mean Cq difference between the two. A negative mean Cq difference indicates that, for that APC dilution, the generic ISAV assay was more sensitive because it produced a lower mean Cq, given the same concentration of template.

APC dilution	Generic ISAV assay ⁷ mean Cq	ISAV-HPR0 mean Cq	Mean Cq difference
10 ⁻⁴	15.37	15.97	-0.602
10 ⁻⁵	18.64	19.41	-0.773
10 ⁻⁶	22.08	22.86	-0.778
10 ⁻⁷	25.50	26.11	-0.607
10 ⁻⁸	28.91	29.37	-0.459
10 ⁻⁹	32.44	32.68	-0.240
10 ⁻¹⁰	36.08	35.74	0.342
Mean of means			-0.445

Supplemental Table 4. Results from the inter-laboratory comparison using subsamples of the same gill clips collected from the National Cold Water Marine Aquaculture Center (NCWMAC) and distributed to the University of Maine Cooperative Extension Diagnostic and Research Laboratory (UMCEDRL) and Kennebec River Biosciences (KRB). For each sample, we have included the average generic ISAV assay⁷ Cq values as well as those for the new ISAV-HPR0 assay. While run on different instruments, we used the same PCR protocol at UMCEDRL and NCWMAC, in contrast to a different generic ISAV assay used at KRB.³⁷ Finally, we have included the qualitative results for each sample, which included positive (Pos), negative (Neg), and inconclusive (Inc). An inconclusive result was declared when at least one PCR replicate tested positive for that particular assay, but it could not be replicated in further confirmatory assays.

Sample	UMCEDRL			NCWMAC			KRB	
	Generic ISAV ⁷	HPR0	Result	Generic ISAV ⁷	HPR0	Result	Generic ISAV ³⁷	Result
1	33.7	34.8	Inc	0	0	Neg	0	Neg
2	0	0	Neg	0	0	Neg	0	Neg
3	0	0	Neg	0	0	Neg	0	Neg
4	0	0	Neg	0	0	Neg	0	Neg
5	0	0	Neg	30.5	29.9	Pos	0	Neg
6	0	0	Neg	0	0	Neg	0	Neg
7	0	0	Neg	0	0	Neg	0	Neg
8	0	0	Neg	0	0	Neg	0	Neg
9	0	0	Neg	0	0	Neg	0	Neg
10	0	0	Neg	0	0	Neg	0	Neg
11	0	0	Neg	0	0	Neg	0	Neg
12	31.7	31.3	Pos	0	0	Neg	0	Neg
13	31.7	31.2	Pos	37.2	37.8	Inc	36	Pos
14	34	35	Inc	0	0	Neg	35.7	Pos
15	34.7	34.3	Pos	0	0	Neg	0	Neg

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16	31.1	31.3	Pos	0	0	Neg	38.6	Inc
17	0	0	Neg	0	0	Neg	0	Neg
18	33.5	30.6	Pos	27.4	27.2	Pos	33.5	Pos
19	31.9	32.8	Inc	39.8	0	Inc	0	Neg
20	0	0	Neg	0	0	Neg	0	Neg
21	0	0	Neg	0	0	Neg	0	Neg
22	32.7	34.1	Pos	0	0	Neg	0	Neg
23	31.7	31.3	Pos	0	39.9	Neg	37.7	Pos
24	34.4	32.2	Pos	0	0	Neg	36.6	Inc
25	32.6	31.4	Pos	29.4	28.6	Pos	0	Neg
26	0	0	Neg	0	0	Neg	0	Neg
27	28.2	27.5	Pos	32	30.7	Pos	33.8	Pos
28	33.8	32.7	Inc	0	0	Neg	0	Neg
29	29.6	29.5	Pos	0	0	Neg	0	Neg
30	31.5	31	Pos	29.5	29.1	Pos	32.1	Pos
31	32.2	31.3	Pos	33.7	31.2	Pos	32.3	Pos
32	0	0	Neg	29.1	28.5	Pos	36.4	Pos
33	27.7	26.5	Pos	0	0	Neg	0	Neg
34	31.3	29.8	Pos	28.7	28	Pos	34.6	Pos
35	31.2	31	Pos	29.4	28.4	Pos	33.2	Pos
36	29.5	30.7	Pos	27.2	27.1	Pos	31.7	Pos
37	32.3	33.3	Pos	37.1	35.3	Inc	33.4	Pos
38	29.7	29.3	Pos	30.9	29.7	Pos	0	Neg
39	31	30.9	Pos	30.4	29.3	Pos	36.7	Pos
40	30.3	30.3	Pos	0	0	Neg	32.8	Pos
41	31.1	30.9	Pos	0	0	Neg	36.8	Inc
42	23.7	24	Pos	0	0	Neg	33.6	Pos
43	29.2	28.1	Pos	25.6	25.2	Pos	28.7	Pos
44	32.3	31.6	Pos	29.6	28.6	Pos	35.6	Pos
45	34.1	34.1	Pos	0	0	Neg	0	Neg
46	0	0	Neg	0	0	Neg	0	Neg
47	32.6	30.5	Pos	0	0	Neg	0	Neg
48	29.8	28.9	Pos	26.8	26.5	Pos	32.8	Pos
49	30	29.3	Pos	0	37	Neg	35.9	Pos

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50	30.4	31.3	Pos	0	0	Neg	37.1	Pos
51	0	0	Neg	0	0	Neg	0	Neg
52	33.8	33.7	Pos	0	0	Neg	0	Neg
53	31.7	31.4	Pos	0	39.2	Neg	36.6	Pos
54	27.7	27.8	Pos	26.2	26.1	Pos	31.4	Pos
55	30.9	31.9	Pos	36.7	33.1	Inc	0	Neg
56	31.9	31.9	Pos	34.9	32.5	Pos	36	Pos
57	31.3	31.3	Pos	0	0	Neg	37.5	Inc
58	26.8	28.3	Pos	34.8	32.6	Inc	36.2	Pos
59	0	0	Neg	0	0	Neg	38.9	Inc
60	29.8	30.5	Pos	32.7	31.1	Pos	35.4	Pos
61	26.8	27.1	Pos	27.4	26.6	Pos	31.1	Pos
62	0	0	Neg	0	0	Neg	38.8	Pos
63	24.2	24.8	Pos	22.7	22.2	Pos	29.2	Pos
64	25.3	25.4	Pos	29.1	28.3	Pos	30.7	Pos
65	32.4	33.4	Pos	0	0	Neg	35.3	Pos
66	32.6	31.7	Pos	30.4	29.3	Pos	33.3	Pos
67	28	28.1	Pos	29.9	30.3	Pos	29.4	Pos
68	29.6	30.1	Pos	27.4	27.3	Pos	29.6	Pos
69	32.3	31.9	Pos	33.9	31.3	Pos	0	Neg
70	0	0	Neg	0	0	Neg	0	Neg
71	0	0	Neg	0	0	Neg	0	Neg
72	23.2	33.9	Inc	0	34.2	Neg	33.9	Pos
73	30.7	31.8	Pos	30.8	29.8	Pos	37.7	Inc
74	31.4	31.2	Pos	35.1	31.8	Pos	34.2	Pos
75	27.2	27.7	Pos	27.6	27.4	Pos	32.5	Pos
76	26.8	27.8	Pos	29.3	29	Pos	32.1	Pos
77	31.3	31.2	Pos	27.6	27.3	Pos	35.8	Pos
78	27.1	27.3	Pos	32.2	30.9	Pos	35.5	Inc
79	24.8	24.4	Pos	0	37.2	Neg	33.1	Pos
80	19.4	19.5	Pos	21.7	21.1	Pos	30.6	Pos
81	32.5	32.1	Pos	28.9	28.2	Pos	35.9	Pos
82	31.5	28.2	Pos	40.6	0	Inc	33.3	Pos
83	30.3	29.7	Pos	37.2	35.4	Inc	33.4	Pos

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84	31.8	32.6	Pos	0	0	Neg	34.3	Pos
85	33	32.6	Inc	36.8	37.6	Inc	33.2	Pos
86	29.8	30	Pos	0	0	Neg	33.2	Pos
87	26.2	27	Pos	27.2	27.2	Pos	29.7	Pos
88	29.7	30	Pos	33.1	33	Inc	31.1	Pos
89	30.8	30.4	Pos	23.6	23.2	Pos	34.3	Pos
90	31.2	31.1	Pos	30	28.7	Pos	34	Pos
91	25.8	25.8	Pos	26.8	26.6	Pos	31.6	Pos
92	30.2	30	Pos	0	0	Neg	36	Pos
93	32.3	32.2	Pos	36.6	39.2	Inc	36.6	Inc
94	31.6	30.7	Pos	0	0	Neg	33.5	Pos
95	29.1	31	Inc	27.4	26.6	Pos	36.1	Pos
96	30.4	31.1	Pos	33.7	31.4	Pos	32.1	Pos
97	24.4	24	Pos	24.6	24.3	Pos	27.8	Pos
98	30.4	29.8	Pos	31.6	30.8	Pos	32.9	Pos
99	28.1	29.3	Pos	28.2	27.6	Pos	32.9	Pos
100	29.5	30.7	Pos	40	33.6	Inc	33.9	Pos
101	30.1	29.1	Pos	28.6	27.8	Pos	31.2	Pos
102	0	0	Neg	0	0	Neg	0	Neg
103	31.5	32.3	Pos	32.3	30.8	Pos	36	Inc
104	35.1	32.7	Pos	0	35.3	Neg	37.7	Pos
105	30.9	30.6	Inc	0	0	Neg	0	Neg
106	27.1	27.3	Pos	29.7	27.8	Pos	27.6	Pos
107	0	0	Neg	0	0	Neg	35.2	Pos
108	29	29.4	Pos	27.2	26.3	Pos	30.3	Pos
109	28.5	28.9	Pos	27	27	Pos	32.8	Pos
110	0	0	Neg	0	0	Neg	0	Neg
111	0	0	Neg	0	38	Neg	31.8	Pos
112	0	0	Neg	0	0	Neg	0	Neg
113	0	0	Neg	0	0	Neg	33.1	Pos
114	0	0	Neg	0	0	Neg	36.5	Pos
115	0	0	Neg	0	0	Neg	35.3	Pos
116	0	0	Neg	0	0	Neg	0	Neg
117	0	0	Neg	0	0	Neg	0	Neg

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118	0	0	Neg	0	0	Neg	0	Neg
119	0	0	Neg	0	0	Neg	0	Neg
120	0	0	Neg	0	0	Neg	0	Neg
121	34.6	36.3	Inc	0	0	Neg	0	Neg
122	28.2	27.9	Pos	27	26.2	Pos	31	Pos
123	27.7	28.2	Pos	28.3	28	Pos	30.1	Pos
124	19.1	18.9	Pos	18.4	18.4	Pos	22.8	Pos
125	35.1	34.8	Pos	0	0	Neg	35.1	Pos
126	28.4	29	Pos	40.5	36	Inc	35.7	Pos
127	18.3	18.5	Pos	17	17.1	Pos	19.8	Pos
128	22.2	22.4	Pos	22	21.5	Pos	22.6	Pos
129	35	34.1	Inc	0	40.9	Neg	33.7	Pos
130	28.8	29.2	Pos	35.8	34	Pos	36.7	Pos
131	22.8	22.8	Pos	21.7	21.3	Pos	25.8	Pos
132	20.7	20.7	Pos	16.1	15.8	Pos	21.9	Pos
133	34.5	33.6	Inc	0	0	Neg	34.6	Pos
134	32.5	32.3	Pos	28.7	31.6	Pos	36.1	Pos
135	25	25.1	Pos	22.5	22.1	Pos	22.8	Pos
136	33.1	33.2	Pos	0	0	Neg	32	Pos
137	30.3	30.9	Pos	29.3	28.3	Pos	36.9	Inc
138	31.9	32.4	Pos	34.1	31.1	Pos	33.7	Pos
139	30.8	30.3	Pos	33.1	28.5	Pos	34.2	Pos
140	21.3	21.8	Pos	17.9	17.3	Pos	21.2	Pos
141	0	0	Neg	19.4	19.2	Pos	24.2	Pos
142	28.5	28.6	Pos	0	35.6	Neg	33.4	Pos
143	31.9	31.2	Pos	31.1	30.4	Pos	34.3	Pos
144	32.6	31.4	Pos	27.6	26.8	Pos	34.5	Pos
145	26.3	26.4	Pos	23	22.5	Pos	25.9	Pos
146	19.1	19.4	Pos	21.6	21.3	Pos	23.9	Pos
147	20.5	20.8	Pos	21.1	21	Pos	26.7	Pos
148	20.8	21.7	Pos	22.1	22	Pos	26.9	Pos
149	31.5	28.8	Pos	29.1	28.4	Pos	32.6	Pos
150	19.3	19.5	Pos	20.9	20.8	Pos	27.2	Pos
151*	—	—	—	—	—	—	—	—

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152	31.5	31.2	Pos	27.2	26.6	Pos	32.7	Pos
153	21.3	21.8	Pos	18.5	18.1	Pos	25.8	Pos
154	21.5	22	Pos	18.5	18.1	Pos	24.5	Pos
155	27.3	27.1	Pos	28	27.1	Pos	32.2	Pos
156	15.4	15.9	Pos	16.2	16	Pos	20	Pos
157	32	31	Pos	26.6	26.4	Pos	31.3	Pos
158	23.6	23.8	Pos	24.6	24.6	Pos	27.6	Pos
159	29.1	28.9	Pos	28	27.6	Pos	30.4	Pos
160	28.4	29.3	Pos	26.7	25.5	Pos	31.9	Pos
161	14.7	14.8	Pos	13	12.8	Pos	17.8	Pos
162	23.6	23.6	Pos	23.9	23.3	Pos	30.5	Pos
163	28	27.4	Pos	28.5	27.5	Pos	30.6	Pos
164	27.7	28.2	Pos	34.3	31.9	Pos	31.1	Pos
165	28.4	28.7	Pos	26.8	25.3	Pos	33.7	Pos
166	25.8	25.6	Pos	24.9	24.6	Pos	29.7	Pos
167	23.7	23.8	Pos	22.8	22.3	Pos	25.2	Pos
168	28.7	28.4	Pos	29.4	28.8	Pos	30.5	Pos
169	14.8	14.5	Pos	13	12.7	Pos	17.7	Pos
170	21.4	21.5	Pos	22.2	22	Pos	26.3	Pos
171	23.3	22.9	Pos	24.4	24.2	Pos	28.7	Pos
172	25.1	25	Pos	24	23.6	Pos	29.4	Pos
173	26.7	27	Pos	25.1	24.7	Pos	28.1	Pos
174	25.7	26.2	Pos	30.1	29.4	Pos	29.2	Pos
175	28.1	28.8	Pos	26.8	26.2	Pos	29	Pos
176	32.2	31.4	Pos	39.5	30.4	Inc	0	Neg
177	29	28.5	Pos	28.5	28.2	Pos	34.7	Pos
178	32.1	31.8	Pos	35.9	34.1	Inc	37.7	Pos
179	29.3	30.2	Pos	0	0	Neg	29.7	Pos
180	30.2	30.1	Pos	26.1	25.6	Pos	31.7	Pos
181	29.9	29.7	Pos	34.4	32.5	Pos	37	Pos
182	0	0	Inc	0	0	Neg	0	Neg
183	34	33.3	Pos	0	39.8	Neg	0	Neg

* Sample 151 was the result of a numbering error and does not exist. It was included in the dataset to reduce confusion because the sample numbers would otherwise skip from 150 to 152.

Supplemental Table 5. The categorical data we collected when classifying each of the ISAV-positive fish gill samples at the University of Maine Cooperative Extension Diagnostic and Research Laboratory (UMCEDRL), Kennebec River Biosciences (KRB), and the National Cold Water Marine Aquaculture Center (NCWMAC). We classified samples as negative (Neg) if there was no Cq for the generic ISAV segment 8 assay used at that particular location (UMCEDRL,⁷ KRB,³⁷ NCWMAC⁷), and inconclusive (Inc) if a positive result was declared on one replicate, but could not be recreated, even after additional reruns. Samples that we found to be positive were further classified into the “high-infected” (High) and “low-infected” (Low) categories. High samples had higher quantities of viral material and were classified as such if the Cq was <30. Low samples had lesser quantities of virus, and we placed positive samples into this group with Cq values ≥ 30 .

Sample ID	UMCEDRL ⁷	KRB ³⁷	NCWMAC ⁷
1	Inc	Neg	Neg
2	Neg	Neg	Neg
3	Neg	Neg	Neg
4	Neg	Neg	Neg
5	Neg	Neg	Low
6	Neg	Neg	Neg
7	Neg	Neg	Neg
8	Neg	Neg	Neg
9	Neg	Neg	Neg
10	Neg	Neg	Neg
11	Neg	Neg	Neg
12	Low	Neg	Neg
13	Low	Low	Inc

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14	Inc	Low	Neg
15	Low	Neg	Neg
16	Low	Inc	Neg
17	Neg	Neg	Neg
18	Low	Low	High
19	Inc	Neg	Inc
20	Neg	Neg	Neg
21	Neg	Neg	Neg
22	Low	Neg	Neg
23	Low	Low	Neg
24	Low	Inc	Neg
25	Low	Neg	High
26	Neg	Neg	Neg
27	High	Low	Low
28	Inc	Neg	Neg
29	High	Neg	Neg
30	Low	Low	High
31	Low	Low	Low
32	Neg	Low	High
33	High	Neg	Neg
34	Low	Low	High
35	Low	Low	High
36	High	Low	High
37	Low	Low	Inc
38	High	Neg	Low
39	Low	Low	Low
40	Low	Low	Neg

Salmon isavirus phenotype multiplex RT-qPCR

41	Low	Inc	Neg
42	High	Low	Neg
43	High	High	High
44	Low	Low	High
45	Low	Neg	Neg
46	Neg	Neg	Neg
47	Low	Neg	Neg
48	High	Low	High
49	Low	Low	Neg
50	Low	Low	Neg
51	Neg	Neg	Neg
52	Low	Neg	Neg
53	Low	Low	Neg
54	High	Low	High
55	Low	Neg	Inc
56	Low	Low	Low
57	Low	Inc	Neg
58	High	Low	Inc
59	Neg	Inc	Neg
60	High	Low	Low
61	High	Low	High
62	Neg	Low	Neg
63	High	High	High
64	High	Low	High
65	Low	Low	Neg
66	Low	Low	Low
67	High	High	High

68	High	High	High
69	Low	Neg	Low
70	Neg	Neg	Neg
71	Neg	Neg	Neg
72	Inc	Low	Neg
73	Low	Inc	Low
74	Low	Low	Low
75	High	Low	High
76	High	Low	High
77	Low	Low	High
78	High	Inc	Low
79	High	Low	Neg
80	High	Low	High
81	Low	Low	High
82	Low	Low	Inc
83	Low	Low	Inc
84	Low	Low	Neg
85	Inc	Low	Inc
86	High	Low	Neg
87	High	High	High
88	High	Low	Inc
89	Low	Low	High
90	Low	Low	Low
91	High	Low	High
92	Low	Low	Neg
93	Low	Inc	Inc
94	Low	Low	Neg

Salmon isavirus phenotype multiplex RT-qPCR

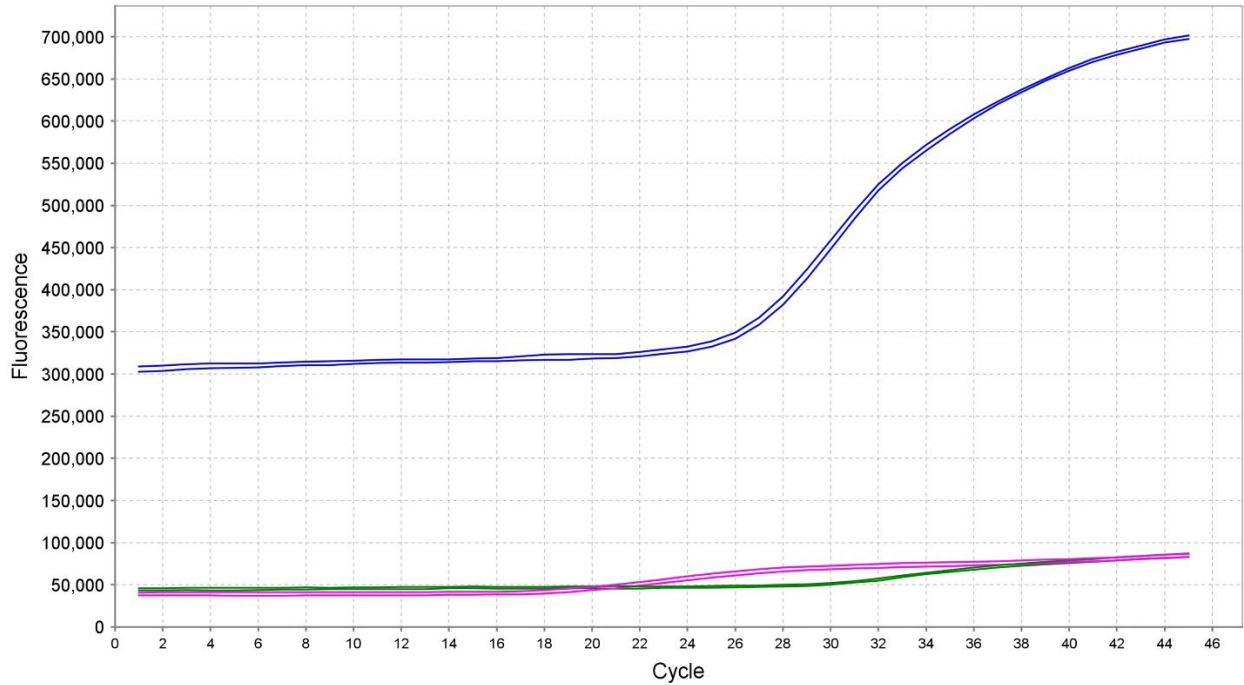
95	Inc	Low	High
96	Low	Low	Low
97	High	High	High
98	Low	Low	Low
99	High	Low	High
100	High	Low	Inc
101	Low	Low	High
102	Neg	Neg	Neg
103	Low	Inc	Low
104	Low	Low	Neg
105	Inc	Neg	Neg
106	High	High	High
107	Neg	Low	Neg
108	High	Low	High
109	High	Low	High
110	Neg	Neg	Neg
111	Neg	Low	Neg
112	Neg	Neg	Neg
113	Neg	Low	Neg
114	Neg	Low	Neg
115	Neg	Low	Neg
116	Neg	Neg	Neg
117	Neg	Neg	Neg
118	Neg	Neg	Neg
119	Neg	Neg	Neg
120	Neg	Neg	Neg
121	Inc	Neg	Neg

122	High	Low	High
123	High	Low	High
124	High	High	High
125	Low	Low	Neg
126	High	Low	Inc
127	High	High	High
128	High	High	High
129	Inc	Low	Neg
130	High	Low	Low
131	High	High	High
132	High	High	High
133	Inc	Low	Neg
134	Low	Low	High
135	High	High	High
136	Low	Low	Neg
137	Low	Inc	High
138	Low	Low	Low
139	Low	Low	Low
140	High	High	High
141	Neg	High	High
142	High	Low	Neg
143	Low	Low	Low
144	Low	Low	High
145	High	High	High
146	High	High	High
147	High	High	High
148	High	High	High

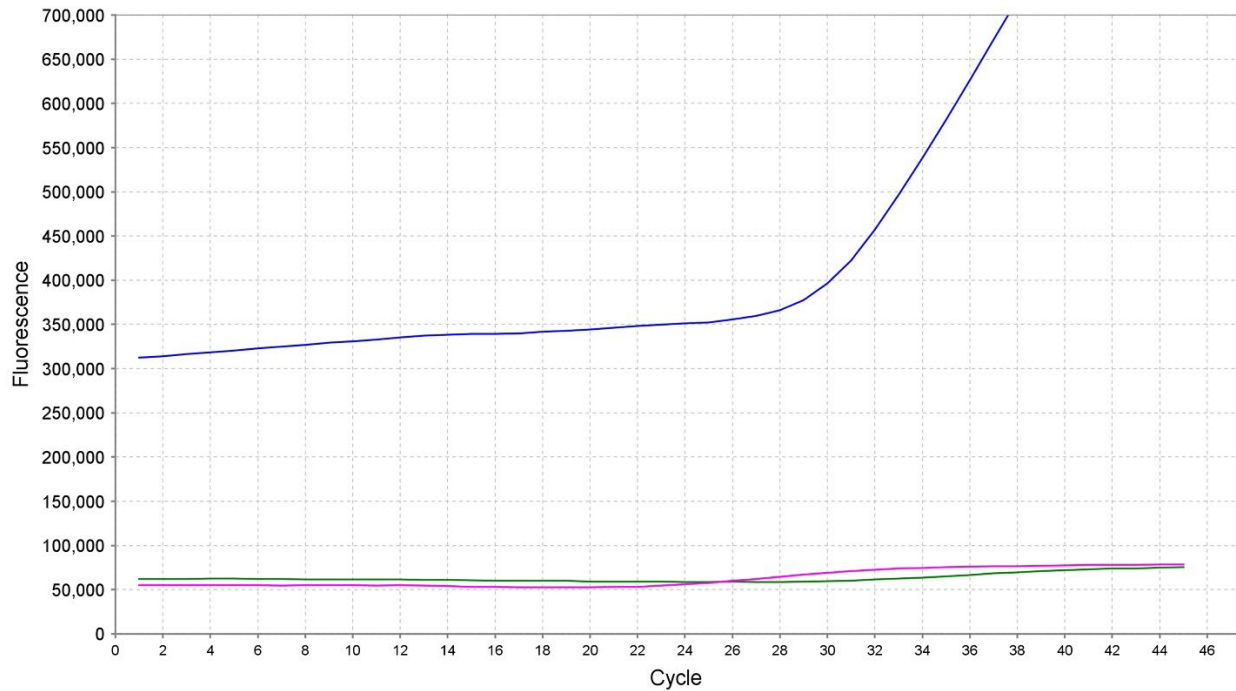
149	Low	Low	High
150	High	High	High
151*	—	—	—
152	Low	Low	High
153	High	High	High
154	High	High	High
155	High	Low	High
156	High	High	High
157	Low	Low	High
158	High	High	High
159	High	Low	High
160	High	Low	High
161	High	High	High
162	High	Low	High
163	High	Low	High
164	High	Low	Low
165	High	Low	High
166	High	High	High
167	High	High	High
168	High	Low	High
169	High	High	High
170	High	High	High
171	High	High	High
172	High	High	High
173	High	High	High
174	High	High	Low
175	High	High	High

176	Low	Neg	Inc
177	High	Low	High
178	Low	Low	Inc
179	High	High	Neg
180	Low	High	Low
181	High	Low	Low
182	Inc	Neg	Neg
183	Low	Neg	Neg

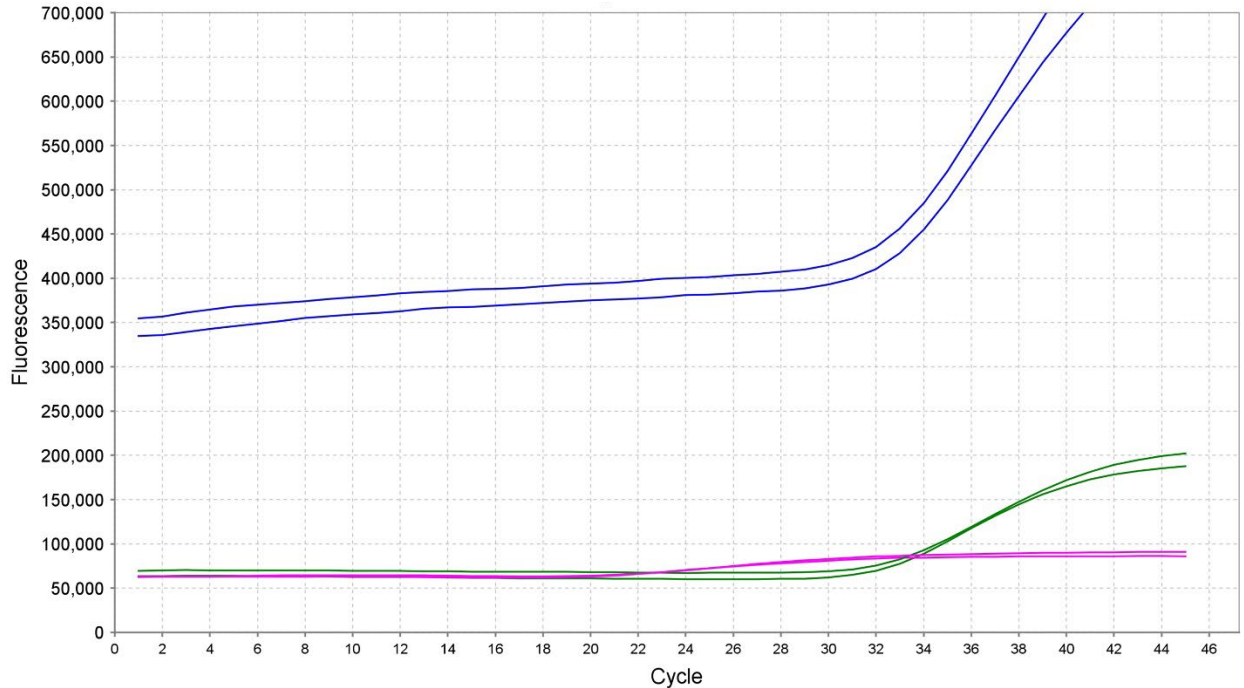
* Sample 151 was the result of a numbering error and does not exist. It was included in the dataset to reduce confusion because the sample numbers would otherwise skip from 150 to 152.



Supplemental Figure 1. Graph (cycle vs. fluorescence) of what we believe is a naturally occurring mixture of ISAV-HPR Δ and ISAV-HPR0 using our newly developed multiplex RT-qPCR assay. The generic ISAV segment 8 assay⁷ is blue, the HPR0 assay is green, and the internal *Salmo salar* RNA positive control is pink. For this sample, we found that both the generic ISAV assay and the HPR0 assay produced Cq values; however, the Cq of the HPR0 assay was later than expected, and the curve was significantly flattened. Follow-up sequencing of this sample revealed that it was consistent with HPR Δ . We were then experimentally able to create a similar looking graph using an artificial mixture of ISAV-HPR Δ and ISAV-HPR0 (Suppl. Fig. 2).



Supplemental Figure 2. Graph (cycle vs. fluorescence) of an artificial mixture of ISAV-HPR Δ and ISAV-HPR0 we created in an attempt to emulate the likely mixed sample we previously identified (Suppl. Fig. 1). This sample was a 6:1 mixture of ISAV-HPR Δ :ISAV-HPR0. The generic ISAV segment 8 assay⁷ is blue, the HPR0 assay is green, and the internal *S. salar* RNA positive control is pink. Just as in Suppl Fig. 1, the HPR0 assay curve is severely flattened, and the Cq is later than expected, as compared to the generic ISAV assay.



Supplemental Figure 3. Graph (cycle vs. fluorescence) of an artificial mixture of ISAV-HPR Δ and ISAV-HPR0 we created to test the responses of the multiplex RT-qPCR assay to these mixtures. This sample was a 1:6 mixture of ISAV-HPR Δ :ISAV-HPR0. The generic ISAV segment 8 assay⁷ is blue, the HPR0 assay is green, and the internal *S. salar* RNA positive control is pink. In comparison to the generic ISAV assay, the C_q of the HPR0 assay is slightly shifted and the amplification curve is flattened.