

- 1 **Supplementary Table 1.** Overview of the laboratory results, confirming the initial diagnosis of the IPNV infection and QTL status of the fish.
- 2 The extracted RNA from all six head-kidney samples (BG_1 – BG_6) were used for transcriptome sequencing, viral genome detection and
- 3 subsequent assembly.

| Num. | tissue | QTL | qRT-PCR Ct value | histology | Immunohistochemistry |
|------|-------------|------------|------------------|-------------------------------------------------------------------------------------|----------------------|
| 1 | head-kidney | Yes | 20.32 | Not tested | Not tested |
| 2 | head-kidney | Yes | 19.79 | Not tested | Not tested |
| 3 | head-kidney | Yes | 18.93 | Not tested | Not tested |
| 4 | head-kidney | Yes | 18.92 | Not tested | Not tested |
| 5 | head-kidney | Yes | 20.77 | Not tested | Not tested |
| 6 | head-kidney | Yes | 19.32 | Not tested | Not tested |
| 7 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 8 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 9 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 10 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 11 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 12 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 13 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 14 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 15 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 16 | adipose fin | Yes | Not tested | Not tested | Not tested |
| 17 | multiple | Not tested | Not tested | Multifocal necrosis in the exocrine pancreas | positive |
| 18 | multiple | Not tested | Not tested | Multifocal necrosis in exocrine pancreas and multifocal bleeding in abdominal fat | positive |
| 19 | multiple | Not tested | Not tested | Multifocal necrosis in exocrine pancreas and focal, extensive necrosis in the liver | positive |