|  |  |  |  |
| --- | --- | --- | --- |
| **Species** | **Isolate**  **(genotype group)** | **Host of isolation**  **(scientific - common name)** | **Country of isolation** |
| *A. astaci* | Da (A) | *Astacus astacus* - noble crayfish | Sweden |
|  | SV (A) | *Astacus astacus* - noble crayfish | Sweden |
|  | 457 (B) | *Austropotamobius pallipes* - white-clawed crayfish | United Kingdom |
|  | 197901(B) | *Austropotamobius pallipes* - white-clawed crayfish | United Kingdom |
|  | **D2 (B)** | *Astacus astacus* - noble crayfish | Germany |
|  | SA (B) | *Astacus astacus* - noble crayfish | Germany |
|  | Si (B) | *Astacus astacus* - noble crayfish | Sweden |
|  | YX (B) | *Astacus astacus* - noble crayfish | Sweden |
|  | KV (C) | *Pacifastacus leniusculus* - signal crayfish | Sweden (crayfish origin: Canada) |
|  | Pc (D) | *Procambarus clarkii* - red swamp crayfish | Spain |
|  | KB13 (E) | *Orconectes limosus* - spinycheek crayfish | Czech Republic |

**Supplementary Table S1**. *Aphanomyces astaci* pure cultures used for whole genome sequencing provided by the Centre of Environment, Fisheries and Aquaculture Science (Cefas) Oomycete Culture Collection (OCC). Host and geographical area of isolation are indicated when known. Genotype groups are defined as per the Cefas OCC record system, based on RAPD-PCR analysis (Huang *et al*., 1994); nomenclature of genotype groups follows Svoboda *et al.* (2017). In bold, isolate used to assemble the mitochondrial reference genome.