

	→	←
A. astaci (AY310501)	ATACAAC TTTCAACAGTGGATGTCT	CGTAA TGCGAAT TGCAGAA T
A. astaci GB04* (EU477365)	.....	.....
A. astaci GKS07*	.....	.....
A. astaci Z12*	.....	.....
A. astaci Hoe (AY683893)	.....	.....
A. astaci Kv1 (AY683894)	.....	.....
A. astaci Pc (AY683896)	.....	.....
A. frigidophilus (AY647192)	.....	.....
A. frigidophilus SAP472 (FM992370)	.....	.....
A. invadans (FM999229)	.....	.....
A. invadans WIC (AF396684)	.....	.....
A. piscicida NJM0003 (AY283641)	.....	.....
A. sp LIT7 (FM955258)	.....	.....
A. repetans (AY683897)	.....	.....
A. repetans LK29 (EU477367)	.....	.....
A. laevis (FM999237)	.....	.....
A. stellatus (AY683888)	.....	.....
A. helicoides (AY310496)	.....	.....
A. euteiches (FM999226)	.....	.....
A. cladogamus SAP355 (FM999228)	.....	.....
A. cochlioides (AY353911)	.....	.....
A. iridis (FM999227)	.....	.....
Leptolegnia sp. CBS177.86 (AY310502)	.....	.....
Leptolegnia sp. K08 (EU240098)	.....	.....
Leptolegnia sp. PSCR0503 (EU071706)	.....	.....
Leptolegnia sp. SAP248 (AM228851)	.....	.....
Achlya racemosa (AF218158)	.....	.....

Additional file 5.

Alignment of primer sites for the endogenous control 5.8S rRNA amplicon used in qPCR/MCA. Asterisks denote *A. astaci*-strains isolated in this work. Parentheses contain GenBank accessions. Oomycete reference strains [1] are given in bold. Dot: identical nucleotide with the *A. astaci* sequence.

Reference: 1. Dieguez-Uribeondo J, Garcia MA, Cerenius L, Kozubikova E, Ballesteros I, Windels C, Weiland J, Kator H, Soderhall K, Martin MP: **Phylogenetic relationships among plant and animal parasites, and saprotrophs in Aphanomyces (Oomycetes).** *Fungal Genet Biol* 2009, **46**(5):365-376.