

Supplementary Table 2. Candidate genes used to test for positive selection, and ID of additional heterothallic *Neurospora* strains sequenced. Accession numbers will be given upon acceptance of the manuscript.

Species	Isolate code	Gene alignment				
		NCU01720	NCU03013 ¹	NCU03584 ²	NCU06387	NCU07311
<i>N. crassa</i> (NcC)	FGSC 8858	-	-	-	HE861791	-
<i>N. crassa</i> (NcC)	FGSC 8863	HE861780	HE861803	-	-	HE861813
<i>N. crassa</i> (NcB)	FGSC 8772	HE861774	HE861797	HE861766	HE861785	HE861809
<i>N. discreta</i> (PS7)	FGSC 8780	HE861775	HE861798	-	HE861786	-
<i>N. discreta</i> (PS6)	FGSC 8827	HE861777	HE861800	-	HE861788	-
<i>N. hispaniola</i>	FGSC 8815	HE861776	HE861799	HE861767	HE861787	HE861810
<i>N. intermedia</i> (NiA)	FGSC 8901	HE861782	HE861805	HE861770	HE861793	HE861815
<i>N. intermedia</i> (NiB)	FGSC 8768	HE861773	HE861796	-	HE861784	HE861808
<i>N. metzenbergii</i>	FGSC 8853	HE861779	HE861802	-	HE861790	HE861812
<i>N. perkinsii</i>	FGSC 8835	HE861778	HE861801	HE861768	HE861789	HE861811
<i>N. sitophila</i>	FGSC 412	HE861771	HE861794	-	HE861783	HE861806
Genome sequences						
<i>N. crassa</i> ³		included	included	included	included	included
<i>N. discreta</i> ⁴	FGSC 8579	-	-	included	-	included
<i>N. tetrasperma</i> ⁵	FGSC 2508	included	included	included	included	included

¹ acw-10 gene for anchored cell wall protein-10

² pks gene for polyketide synthase

³ Neurospora crassa database, Broad Institute (<http://www.broadinstitute.org/annotation/genome/neurospora/MultiHome.html>)

⁴ JGI, Neurospora discreta FGSC 8579 mat A (<http://genome.jgi-psf.org/Neudi1/Neudi1.home.html>)

⁵ JGI, Neurospora tetrasperma FGSC 2508 mat A