

Evolutionary history and distribution analysis of rhamnosyltransferases in the fungal kingdom

Joaquín O. Chávez-Santiago¹, Luz A. López-Ramírez¹, Luis A. Pérez-García², Iván Martínez-Duncker³, Bernardo Franco¹, Israel E. Padilla-Guerrero¹, Vianey Olmedo-Monfil¹, J Félix Gutiérrez-Corona¹, Gustavo A. Niño-Vega¹, Jorge H. Ramírez-Prado^{4*} and Héctor M. Mora-Montes^{1*}

¹ Universidad de Guanajuato; jo.chavez santiago@ugto.mx

² Facultad de Estudios Profesionales Zona Huasteca, Universidad Autónoma de San Luis Potosí, Romualdo del Campo 501, Fracc. Rafael Curiel, 79060, Ciudad Valles, S.L.P., Mexico.

³ Laboratorio de Glicobiología Humana y Diagnóstico Molecular, Centro de Investigación en Dinámica Celular, Instituto de Investigación en Ciencias Básicas y Aplicadas, Universidad Autónoma del Estado de Morelos, Cuernavaca Mor. 62209, México

⁴ Unidad de Biotecnología, Centro de Investigación Científica de Yucatán, A. C., Calle 43 No. 130, Col. Chuburná de Hidalgo, Mérida, Yucatán 97205, Mexico

* Both authors equally contributed to this work. Correspondence: jhramirez@cicy.mx (J. H. R.-P.) and hmora@ugto.mx (H. M. M.-M.)

Supplementary Bioinformatics Methodologies

2.1 Downloading the NCBI Database

The non-redundant (NR) BLAST database was downloaded on October 9, 2023, directly from the NCBI platform. This database was stored in 82 compressed files in .tar format, accompanied by 82 .md5 files used to verify the integrity of each .tar file. The .md5 files were downloaded separately to confirm the integrity of each downloaded .tar file before obtaining the complete data package. Subsequently, these files were decompressed and stored on the ADATA external hard drive using the Windows Subsystem for Linux (WSL) environment. The command used for downloading was:

```
sudo wget -p /mnt/adata  
https://ftp.ncbi.nlm.nih.gov/blast/db/nr.00.tar.gz
```

The integrity of the downloads was verified using the corresponding .md5 file with the following command:

```
md5sum filename.txt
```

After verification, the files were decompressed and stored in a folder named "DBNR" within the WSL environment on the external hard drive.

2.2 Identification and Distribution of conserved Motifs in putative RHTs

A detailed list of the predicted motifs and their respective starting positions across all putative *Rht1* and *Rht2* sequences is provided in Supplementary Materials S1–S4.

Table S1. Identified motifs in putative Rht1.

Species	Accession number	Motif 1	<i>p</i> -value	Motif 2	<i>p</i> -value	Motif 3	<i>p</i> -value	Motif 4	<i>p</i> -value	Motif 5	<i>p</i> -value
<i>Fusarium acutatum</i>	KAF4417706.1	TVGATTGFGKLVESV	4.1E-17	LRVQCGPD	1.8E-16	HAGTGTI	2.48E-20	VVPNIQLLNDDHQ	4.33E-13	EMAKHLSKEGYA	1.12E-11
<i>Fusarium albosuccineum</i>	KAF4453631.1	TVGATVGFKNLIESV	1.6E-17	LHMQCGPD	8.1E-18	HAGTGTI	2.48E-20	VVPNTKLLNDDHQ	6.69E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium ambrosium</i>	RSM11772.1	TVGATVGFKKLTETA	1.6E-16	LHIQCGPD	1.5E-18	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium austroafricanum</i>	KAF4446928.1	TVGATTGFRKLAESV	5.4E-16	LHLQCGPD	2.3E-17	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium austroamericanum</i>	KAF5236077.1	TVGATAGFKTLIDSI	8.5E-18	LHVQCGPD	2.2E-15	HAGTGTI	2.48E-20	VVPNTPELLDDHQ	1.11E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium avenaceum</i>	KAH6968718.1	TVGATAGFKKLVDTTV	8.5E-18	LHIQCGPD	3.2E-17	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium beomiforme</i>	KAF4344697.1	TVGATTGFRKLIESV	1.1E-18	LRIQCGPD	1.9E-18	HAGTGTI	3.42E-18	VVPNAQLLDDHQ	1.31E-12	EMAKHLSKEGYA	2.19E-14
<i>Fusarium chuoi</i>	KAI1013357.1	TVGATTGFQKLIQSV	4.5E-18	LRVQCGPD	4.4E-17	HAGTGTI	2.48E-20	VVPNIQLLNDDHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium coffeatum</i>	XP_031013799.1	TVGATAGFRALIDSV	5.3E-19	LHVQCGPD	2.2E-18	HAGTGTI	2.48E-20	VVPNTQLLDDHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium coicis</i>	KAF5967328.1	TVGATTGFGKLVESV	4.1E-17	LRVQCGPD	1.5E-16	HAGTGTI	2.48E-20	VVPNIQLLNDDHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium culmorum</i>	PTD03166.1	TVGATAGFKTLIDSV	2E-18	LHVQCGPD	9.7E-16	HAGTGTI	2.48E-20	VVPNTPELLDDHQ	1.11E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium decemcellulare</i>	KAF5000569.1	TVGATVGFKNLIESV	1.6E-17	LHIQCGPD	4.8E-20	HAGTGTI	2.48E-20	VVPNTKLLNDDHQ	6.69E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium denticulatum</i>	KAF5669558.1	TVGATTGFGKLVESV	4.1E-17	LRVQCGPD	6.8E-14	HAGTGTI	2.48E-20	VVPNIQLLNDDHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium duplospermum</i>	RSL50528.1	TVGATVGFKKLTETA	1.6E-16	LHIQCGPD	4.5E-19	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium equiseti</i>	CAG7560528.1	TVGATAGFKALINSV	1.5E-18	LHVQCGPD	5.7E-18	HAGTGTI	2.48E-20	VVPNTQLLDDHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium euwallaceae</i>	RTE71192.1	TVGATVGFKKLTKTA	2.9E-16	LHIQCGPD	4.5E-19	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium falciforme</i>	XP_053008353.1	TVGATVGFRLKLEAA	4.1E-17	LHVQCGPD	8.4E-19	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium flagelliforme</i>	XP_045987014.1	TVGATAGFKALIDSV	4.6E-19	LHVQCGPD	1.9E-17	HAGTGTI	2.48E-20	VVPNTQLLDDHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium floridanum</i>	RSL77313.1	TVGATVGFKKLTETA	1.6E-16	LHIQCGPD	4.5E-19	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium fujikuroi</i>	KLO94116.1	TVGATTGFEKLIESV	2.6E-18	LRVQCGPD	4.4E-17	HAGTGTI	2.48E-20	VVPNIQLLNDDHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium gaditjirri</i>	KAF4952308.1	TVGATTGFGKLVESV	4.1E-17	LRVQCGPD	1.6E-17	HAGTGTI	2.48E-20	VVPNIQLLNDDHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium graminearum</i>	XP_011318866.1	TVGATAGFKTLIDSV	2E-18	LHVQCGPD	9.7E-16	HAGTGTI	2.48E-20	VVPNTPELLDDHQ	1.11E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium gramineum</i>	KAF4989143.1	TVGATVGFKKLVGSV	7.2E-17	LHIQCGPD	1.6E-17	HAGTGTI	2.48E-20	VVPNTQLLDDHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium heterosporum</i>	KAF5673296.1	TVGATVGFKKLVGSV	7.2E-17	LHVQCGPD	1.2E-17	HAGTGTI	2.48E-20	VVPNTQLLDDHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14

<i>Fusarium irregulare</i>	KAJ4028622.1	TVGATAGFRALIDSV	5.3E-19	LRVQCGPD	2.7E-17	HAGTGTI	2.48E-20	VVPNTQLLDDEHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium keratoplasticum</i>	XP_052913386.1	TVGATVGFKKLTEAT	5.1E-17	LHIQCGPD	1E-18	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium kuroshium</i>	RMJ06590.1	TVGATVGFKKLTEATA	8.35E-14	LHIQCGPD	1.1E-14	HAGTGTI	2.75E-15	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium langsethiae</i>	GKU13606.1	TVGATAGFKTLIDSV	2E-18	LHIQCGPD	1.9E-17	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium longipes</i>	RGP64061.1	TVGATAGFKILIDSV	1.8E-17	LHVQCGPD	1.6E-17	HAGTGTI	2.48E-20	VVPNTQLLDDEHQ	4.25E-14	EMAKHLSNEGYA	1.56E-12
<i>Fusarium mangiferae</i>	XP_041681908.1	TVGATTGFEEKLIESV	2.6E-18	LRVQCGPD	4.4E-17	HAGTGTI	2.48E-20	VVPNIQLLNDEHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium mundagurra</i>	KAF5703820.1	TVGATTGFEEKLVESA	8E-17	LRVQCGPD	2.3E-17	HAGTGTI	2.48E-20	VVPNIQLLNNHQ	1.25E-13	EMARHLSKEGYA	4.89E-13
<i>Fusarium musae</i>	XP_044681754.1	TVGATTGFGKLIVESV	4.1E-17	LRVQCGPD	4.4E-17	HAGTGTI	2.48E-20	VVPNIHLLNDEHQ	3.31E-12	EMAKHLSKEGAE	1.07E-8
<i>Fusarium napiforme</i>	KAF5543507.1	TVGATTGFGKLIVESV	4.1E-17	LRVQCGPD	4.8E-20	HAGTGTI	2.48E-20	VVPNIQLLNDEHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium odoratissimum</i>	XP_031063514.1	TVGATTGFGKLIVESV	4.1E-17	LRVQCGPD	2E-16	HAGTGTI	2.48E-20	VVPNIQLLNDEHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium oligoseptatum</i>	RSM10484.1	TVGATVGFKKLTEATA	1.6E-16	LHIQCGPD	4.5E-19	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium oxysporum</i>	RKK72986.1	TVGATTGFGKLIVESV	4.1E-17	LRVQCGPD	2E-16	HAGTGTI	2.09E-20	VVPNIQLLNDEHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium piperis</i>	KAJ4307910.1	TVGATVGFKKLTEAAA	3.6E-17	LHIQCGPD	1E-18	HAGTGTI	2.48E-20	VVPNTQLLNNHQ	1.34E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium poae</i>	XP_044713521.1	TVGATAGFKTLIDSV	2E-18	LHVQCGPD	9.6E-17	HAGTGTI	2.48E-20	VVPNTQLLDDEHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium proliferatum</i>	KAI1009795.1	TVGATTGFEEKLIESV	2.61E-18	LRVQCGPD	4.36E-17	HAGTGTI	2.48E-20	VVPNIQLLNDEHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium pseudoanthophilum</i>	KAF5579641.1	TVGATTGFGKLIVESV	4.08E-17	LRVQCGPD	4.36E-17	HAGTGTI	2.48E-20	VVPNIQLLNDEHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium pseudocircinatum</i>	KAF5593813.1	TVGATTGFGKLIVESV	4.08E-17	LRVQCGPD	4.36E-17	HAGTGTI	2.48E-20	VVPNIQLLNDEHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium pseudograminearum</i>	QPC77377.1	TVGATAGFKTLIDSV	1.98E-18	LHVQCGPD	9.67E-16	HAGTGTI	2.48E-20	VVPNTQLLDDEHQ	1.11E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium redolens</i>	XP_046051426.1	TVGATTGFTKLIVESV	3.41E-18	LRVQCGPD	3.64E-16	HAGTGTI	2.48E-20	VVPNKQLLNDEHQ	1.76E-12	EMARHLSKEGYA	4.89E-13
<i>Fusarium sarcochroum</i>	KAF4970797.1	TVGATTGFKKLTESV	2.27E-17	LHVQCGPD	5.66E-18	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium solani</i>	XP_046134246.1	TVGATVGFKKLTEAAA	3.63E-17	LHVQCGPD	8.4E-19	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium solani-melongenae</i>	UPL01582.1	TVGATVGFKKLTEAAA	3.63E-17	LHIQCGPD	1.03E-18	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium sporotrichioides</i>	RGP74396.1	TVGATAGFKTLIDSV	1.98E-18	LHIQCGPD	5.66E-18	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium tjaetaba</i>	XP_037201359.1	TVGATTGFGKLIVESV	4.08E-17	LRVQCGPD	4.77E-20	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium tricinctum</i>	KAH7262271.1	TVGATAGFKKLVDVSV	1.5E-18	LHIQCGPD	2.71E-18	HAGTGTI	2.95E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium vanettenii</i>	XP_003051169.1	TVGATVGFRRKLTAAA	1.58E-17	LHVQCGPD	8.4E-19	HAGTGTI	2.48E-20	VVPNTQLLNDEHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Fusarium venenatum</i>	XP_025590567.1	TVGATAGFKTLINSV	5.78E-18	LHVQCGPD	1.15E-17	HAGTGTI	2.48E-20	VVPNTQLLDDEHQ	4.25E-14	EMAKHLSKEGYA	2.19E-14

<i>Fusarium verticillioides</i>	XP_018746363.1	TVGATTGFGKLIVESV	4.08E-17	LRVQCGPD	4.36E-17	HAGTGTI	2.48E-20	VVFNQLLNDDHQ	4.33E-13	EMAKHLSKEGYA	2.19E-14
<i>Fusarium xylarioides</i>	KAG5745984.1	TVGATTGFEKLIESV	2.61E-18	LRVQCGPD	3.64E-16	HAGTGTI	7.78E-20	VVFNIRLLNDHQ	1.11E-12	EMAKHLSKEGYA	2.19E-14
<i>Fusarium zealandicum</i>	KAF4977827.1	TVGATVGFKKLTAAV	1.12E-18	LHVQCGPD	2.71E-18	HAGTGTI	2.48E-20	VVPNTQLLNDDHQ	8.61E-14	EMAKHLSKEGYA	2.19E-14
<i>Dactylonectria estremocensis</i>	KAH7149514.1	TVGATVGFKELTAAV	1.4E-17	LHVQCGPD	6E-17	HAGTGTI	6.66E-20	VVPNTLLLDNDHQ	1.93E-13	EMAELHLAKEGYA	8.15E-14
<i>Dactylonectria macrodidyma</i>	KAH7148757.1	TVGATVGFKELTAAV	1.4E-17	LHVQCGPD	6.77E-18	HAGTGTI	6.66E-20	VVFNLLLDNDHQ	1.93E-13	EMAELHLAKEGYA	8.15E-14
<i>Ilyonectria destructans</i>	KAH7011765.1	TVGATVGFKELTAAV	1.4E-17	LHVQCGPD	1.03E-18	HAGTGTI	2.95E-20	VVFNLLLDNDHQ	1.93E-13	EMAKHLSKEGYA	2.19E-14
<i>Ilyonectria robusta</i>	XP_046104787.1	TVGATVGFKELTAAV	1.4E-17	LHVQCGPD	1.03E-18	HAGTGTI	2.95E-20	VVFNLLLDNDHQ	1.93E-13	EMAQHLSKEGYA	4.89E-13
<i>Mariannaea sp. PMI_226</i>	KAI5462524.1	TVGATVGFKALTESV	1.12E-18	LRIQCGPD	1.03E-18	HAGTGTI	6.70E-21	VVFNARLLDNDHQ	1.20E-12	EMADHLAKEGYA	3.03E-13
<i>Stylonectria norvegica</i>	KAF7554195.1	TVGATVGFKELTESV	2.27E-18	LHIQCGPD	9.57E-17	HAGTGTI	1.46E-20	VVPNTRLLDDHQ	1.53E-13	ELAQHLAKEGYA	2.59E-12
<i>Neonectria ditissima</i>	KPM46246.1	TVGATVGFKELTAAV	1.06E-15	LHVQCGPD	2.24E-18	HAGTGTI	1.21E-20	VVPNTGLLDDHQ	1.76E-13	EMANHILTREGYA	3.78E-10
<i>Claviceps africana</i>	KAG5920846.1	TVGATVGFALTRQV	2.55E-17	LHVQCGPD	6.77E-18	HAGTGTI	1.64E-19	VVPNTALLDDHQ	1.25E-13	ELAVHLSKQGYA	1.56E-12
<i>Claviceps arundinis</i>	KAG5952815.1	TVGATVGFSAALTRAA	7.19E-17	LHVQCGPD	2.67E-17	HAGTGTI	2.69E-21	VVPNTALLDDHQ	1.11E-13	EMARHLAKEGYA	6.00E-13
<i>Claviceps capensis</i>	KAG5921672.1	TVGATVGFSAALTRAV	8.48E-18	LHVQCGPD	1.15E-17	HAGTGTI	6.78E-22	VVPNTALLDDHQ	1.11E-13	EMARHLAKEGYA	6.00E-13
<i>Claviceps cyperi</i>	KAG5952799.1	TVGATVGFPAALTRAV	7.47E-18	LHVQCGPD	8.09E-18	HAGTGTI	9.07E-20	VVPNTALLDNDHQ	2.36E-14	EMALHLAKEGYA	2.81E-11
<i>Claviceps digitariae</i>	KAG5972007.1	TVGATVGFQALTRQV	6.57E-18	LHVQCGPD	1.62E-17	HAGTGTI	1.90E-19	VVPNTDLLDDHQ	8.61E-14	ELAVHLAKQGYA	1.87E-12
<i>Claviceps humidiphila</i>	KAG6112056.1	TVGATVGFSAALTRAA	7.19E-17	LHVQCGPD	7.35E-16	HAGTGTI	2.69E-21	VVPNTALLDDHQ	1.11E-13	EMAHHLAKEGYA	5.57E-12
<i>Claviceps lovelessii</i>	KAG5991086.1	TVGATVGFPAALTRQV	1.09E-17	LHVQCGPD	3.27E-18	HAGTGTI	2.69E-21	VVPNTALLDDHQ	1.25E-13	ELATHLAKQGYA	5.57E-12
<i>Claviceps maximensis</i>	KAG6000611.1	TVGATVGFQALTRRV	7.19E-17	LHVQCGPD	1.15E-17	HAGTGTI	1.64E-19	VVPNTGLLDDHQ	1.76E-13	ELAIHLSKQGYA	7.40E-12
<i>Claviceps monticola</i>	KAG5947883.1	TVGATVGFSAALTRAV	8.48E-18	LHVQCGPD	1.51E-16	HAGTGTI	6.78E-22	VVPNTALLDDHQ	1.11E-13	EMARHLAKEGYA	6.00E-13
<i>Claviceps purpurea</i>	KAG6139429.1	TVGATVGFSAALTRAV	8.48E-18	LHVQCGPD	1.36E-17	HAGTGTI	2.69E-21	VVPNTALLDDHQ	1.11E-13	EMARHLAKEGYA	6.00E-13
<i>Claviceps pusilla</i>	KAG6000469.1	TVGATVGFPAALTRQV	1.09E-17	LHVQCGPD	3.27E-18	HAGTGTI	2.69E-21	VVPNTALLDDHQ	1.25E-13	ELATHLAKQGYA	5.57E-12
<i>Claviceps sorghi</i>	KAG5929518.1	TVGATVGFELTRQV	2.13E-16	LHVQCGPD	6.85E-19	HAGTGTI	1.64E-19	VVPNTALLDDHQ	1.25E-13	ELAVHLSKQGYA	1.56E-12
<i>Claviceps spartinae</i>	KAG5989744.1	TVGATVGFSAALTRAA	7.19E-17	LHVQCGPD	2.67E-17	HAGTGTI	2.69E-21	VVPNTALLDDHQ	1.11E-13	EMARHLAKEGYA	6.00E-13
<i>Metarhizium acridum</i>	XP_007810202.1	TVGATVGFELTKEV	5.78E-18	LHVQCGPD	1.91E-19	HAGTGTI	1.21E-20	VVPNTRLLNDHQ	2.87E-13	EMAKHLARQGYA	9.94E-15
<i>Metarhizium album</i>	XP_040678038.1	TVGATVGFQELTKQV	1.24E-17	LHVQCGPD	1.52E-18	HAGTGTV	2.88E-19	VVPNSRLLDDHQ	1.31E-12	EMAQHHLAKQGYA	1.86E-13
<i>Metarhizium anisopliae</i>	KJK84664.1	TVGATVGFELTKEV	5.78E-18	LHVQCGPD	1.91E-19	HAGTGTI	1.21E-20	VVPNTRLLNDHQ	2.87E-13	EMAELHLARQGYA	2.96E-14
<i>Metarhizium brunneum</i>	XP_014545532.1	TVGATVGFELTKEV	5.78E-18	LHVQCGPD	1.91E-19	HAGTGTI	1.21E-20	VVPNTRLLNDHQ	2.87E-13	EMAKHLARQGYA	9.94E-15

<i>Metarhizium guizhouense</i>	KID87172.1	TVGATVGFEELTKEV	5.78E-18	LHVQCGPD	1.91E-19	HAGTGTI	1.21E-20	VVFNTRLLNDHQ	2.87E-13	EMAKHILARQGYA	9.94E-15
<i>Metarhizium humberi</i>	KAH0599959.1	TVGATVGFEELTKEV	5.78E-18	LHVQCGPD	1.91E-19	HAGTGTI	1.21E-20	VVFNTRLLNDHQ	2.87E-13	EMAKHILARQGYA	9.94E-15
<i>Metarhizium rileyi</i>	OAA42134.1	TVGATVGFEDLTREV	1.58E-17	LHVQCGPD	1.52E-18	HAGTGTI	1.21E-20	VVFNTRLLNDHQ	2.87E-13	EMARHILAKQGYA	1.86E-13
<i>Metarhizium robertsii</i>	XP_007819142.2	TVGATVGFEELTKEV	5.78E-18	LHVQCGPD	1.91E-19	HAGTGTI	1.21E-20	VVFNTRLLNDHQ	2.87E-13	EMAKHILARQGYA	9.94E-15
<i>Ustilaginoidea virens</i>	XP_043000764.1	TVGATVGFEEQLTKQV	6.57E-18	LHVQCGPD	1.36E-17	HAGTGTI	1.00E-20	VVFNNTLLNDHQ	5.68E-14	EMAQVILAKQGYA	6.43E-12
<i>Conoideocrella luteorostrata</i>	KAK2612324.1	TVGATVGFAAALTKEV	3.23E-17	LHIQCGPD	2.27E-17	HAGTGTI	1.42E-19	VVFNSTLLDDHQ	5.68E-14	EMAEHILAKQGYA	1.44E-14
<i>Moelleriella libera</i>	OAA33830.1	TVGATTGFEEALTREV	9.62E-18	LHVQCGPD	6.77E-18	HAGTGTI	4.86E-22	VVFNLTLLNDHQ	3.25E-13	EMARHIVAKQGYA	6.43E-12
<i>Epichloe festucae</i>	QPH04205.1	TVGATVGFKALTKEV	1.72E-18	LHVQCGPD	3.27E-18	HAGTGTI	2.69E-21	VVFNLTLLDDHQ	1.76E-13	EMAKHILAKQGYA	4.29E-15
<i>Trichoderma arundinaceum</i>	RFU72470.1	TVGATVGFKKLTEQV	1.5E-18	LRIQCGPD	1.36E-17	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	1.76E-13	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma asperelloides</i>	KAH8130780.1	TVGATVGFKKLTEQV	8.48E-18	LRIQCGPD	2.24E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	1.76E-13	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma asperellum</i>	XP_024758558.1	TVGATVGFKKLTEQV	8.48E-18	LRIQCGPD	2.24E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	1.76E-13	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma atroviride</i>	XP_013943227.1	TVGATVGFKQLTEQV	1.5E-18	LRIQCGPD	4.72E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	1.76E-13	EMATHILASEGYA	6.65E-11
<i>Trichoderma breve</i>	XP_056025069.1	TVGATVGFKQLTEQV	9.62E-18	LRIQCGPD	2.24E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	2.64E-13	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma citrinoviride</i>	XP_024751380.1	TVGATVGFQQLTEQV	4.45E-18	LRIQCGPD	8.4E-19	HAGTGTI	9.27E-19	VVFNETLLDNDHQ	4.25E-14	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma cornu-damae</i>	KAH6609697.1	TVGATVGFRRQLTEQV	1.98E-18	LRVQCGPD	1.92E-17	NF		VVFNHEELDNDHQ	1.76E-13	EMAQHILAKEGYA	6.00E-13
<i>Trichoderma gracile</i>	KAH0495172.1	TVGATVGFKQLTEQV	1.72E-18	LRVQCGPD	6.77E-18	HAGTGTI	9.27E-19	VVFNESLLDNDHQ	8.61E-14	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma guizhouense</i>	OPB40233.1	TVGATVGFKQLTEQV	9.62E-18	LRIQCGPD	2.24E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	2.64E-13	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma harzianum</i>	XP_024772549.1	TVGATVGFKQLTEQV	9.62E-18	LRIQCGPD	2.24E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	6.71E-14	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma longibrachiatum</i>	PTB74489.1	TVGATVGFKQLTEQV	1.72E-18	LRIQCGPD	1.25E-18	HAGTGTI	9.27E-19	VVFNETLLDNDHQ	4.25E-14	EMAKHILAQEGYA	4.14E-12
<i>Trichoderma reesei</i>	XP_006961478.1	TVGATVGFKQLTEQV	1.72E-18	LRIQCGPD	8.09E-18	HAGTGTI	9.27E-19	VVFNETLLDNDHQ	4.25E-14	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma semiorbis</i>	KAH0522488.1	TVGATVGFKQLTEQV	9.62E-18	LRIQCGPD	2.24E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	2.64E-13	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma simmonsii</i>	QYT05558.1	TVGATVGFKQLTEQV	9.62E-18	LRIQCGPD	2.24E-18	HAGTGTI	9.07E-20	VVFNHEELDNDHQ	6.71E-14	EMAKHILAKEGYA	2.96E-14
<i>Trichoderma virens</i>	XP_013961374.1	TVGATVGFKQLTEQV	9.62E-18	LRIQCGPD	2.24E-18	HAGTGTI	6.66E-20	VVFNHEELDNDHQ	1.76E-13	EMAKHILAKEGYA	2.96E-14
<i>Escovopsis weberi</i>	KOS20329.1	TVGATVGFEEALTREA	9.65E-16	LRVQCGPD	4.45E-21	HAGTGTI	1.90E-19	VVFNPKLLDNDHQ	1.89E-12	EMAKHILSKEGYA	2.19E-14
<i>Cordyceps fumosorosea</i>	XP_018701293.1	TVGATVGFRRKLTAAY	9.62E-18	LRVQCGPD	5.66E-18	HAGTGTI	1.90E-19	VVFNTELLDDHQ	1.11E-13	EMARHILAREGYA	9.06E-13
<i>Cordyceps javanica</i>	TQV92045.1	TVGATVGFRRKLTAAY	9.62E-18	LRVQCGPD	5.66E-18	HAGTGTI	2.18E-19	VVFNTELLDDHQ	1.11E-13	EMAQHILAAEGYA	5.91E-11
<i>Cordyceps militaris</i>	ATY63072.1	TVGATVGFRRKLTAAY	2.01E-17	LRVQCGPD	5.66E-18	HAGTGTI	2.18E-19	VVANTELLDNDHQ	3.94E-13	EMAQHILAAEGYA	5.91E-11

<i>Akanthomyces lecanii</i>	OAA77240.1	TVGATV ^g FRKLTAAV	9.62E-18	LRVQCGPD	1.15E-17	HAGTGTI	2.18E-19	VVPNTDLLNDHQ	1.76E-13	EMAQH ^h LAKEGYA	6.00E-13
<i>Akanthomyces muscarius</i>	XP_056049605.1	TVGATV ^g FRKLTAAV	9.62E-18	LRVQCGPD	1.15E-17	HAGTGTI	2.18E-19	VVPNTDLLNDHQ	1.76E-13	EMAQH ^h LAKEGYA	6.00E-13
<i>Beauveria bassiana</i>	XP_008598136.1	TVGATV ^g FKKLTAAV	8.48E-18	LHVQCGPD	2.24E-18	HAGTGTI	2.18E-19	VVPNTDLLDDHQ	8.61E-14	EMAKH ^h LAKEGYA	2.96E-14
<i>Beauveria brongniartii</i>	OAA37782.1	TVGATV ^g FKKLTAAV	8.48E-18	LRVQCGPD	1.85E-18	HAGTGTI	2.18E-19	VVPNTDLLDDHQ	8.61E-14	EMAQH ^h LAKEGYA	6.00E-13
<i>Lecanicillium saksenae</i>	KAJ3498506.1	TVGATV ^g FRKLTAAV	9.62E-18	LRVQCGPD	3.93E-18	HAGTGTI	2.18E-19	VVPNTDLLNDHQ	1.76E-13	EMAQH ^h LAEEGYA	1.28E-11
<i>Niveomyces insectorum</i>	AZHD0100039.1	TIGATAS ^f VKLLREV	3.59E-13	LLVQTGPD	5.59E-10	HAGSGSI	1.70E-14	VVANPDLQGNHQ	8.40E-12	FLADAVRDAGWA	4.72E-7
<i>Purpureocillium lavendulum</i>	KAJ6440404.1	TVGATV ^g FEQLTKAA	1.29E-15	LRIQCGPD	1.12E-16	HAGTGTI	1.46E-20	VVPNTGLLNDHQ	3.25E-13	EMAKH ^h LAREGYA	6.14E-14
<i>Purpureocillium lilacinum</i>	XP_018175438.1	TVGATV ^g FEQLTKAA	4.37E-16	LRIQCGPD	8.2E-17	HAGTGTI	2.09E-20	VVPNTSLDDHQ	5.68E-14	EMAKH ^h LAREGYA	6.14E-14
<i>Purpureocillium takamizusanense</i>	XP_047844175.1	TVGATV ^g FEQLTKTA	1.56E-15	LRIQCGPD	2.67E-17	HAGTGTI	3.76E-19	VVPNTGLLDDHQ	1.76E-13	ELAKH ^h LAREGYA	4.89E-13
<i>Hirsutella minnesotensis</i>	KJZ78224.1	TVGATV ^g FQALTEQA	4.57E-17	LHIQCGPD	5.57E-16	HAGTGTI	6.78E-22	VVPNTSLLHDHQ	7.93E-13	EMAEH ^h LAQEGYA	6.43E-12
<i>Hirsutella rhossiliensis</i>	XP_044715856.1	TVGATV ^g FRALTQQV	3.9E-18	LHVQCGPD	9.57E-17	HAGTGTI	1.21E-20	VVPNTELLDDHQ	1.11E-13	QMARLLATEGYA	4.29E-8
<i>Tolypocladium ophioglossoides</i>	KND89648.1	TVGATV ^g FEELTKAV	1.55E-16	LHIQCGPD	6E-17	HATGTI	1.40E-17	VVPNTALLDDHQ	1.25E-13	EMAKH ^h VAKEGYA	2.59E-12
<i>Tolypocladium paradoxum</i>	POR38644.1	AVGATV ^g FEELTRAV	8.68E-15	LHVQCGPD	1.85E-18	HAGTGTI	1.21E-20	VVPNTALLDDHQ	1.25E-13	EMAKH ^h LAKEGYA	2.96E-14
<i>Ophiocordyceps sinensis</i>	KAF4508004.1	TVGATV ^g FRTLTQQV	1.4E-17	LHVQCGPD	1.92E-17	HAGTGTI	1.21E-20	VVPNTELLDDHQ	1.11E-13	QMARH ^h LATEGYA	7.57E-10
<i>Clonostachys byssicola</i>	CAG9999494.1	TVGATV ^g FPKLIKTV	8.76E-16	LRIQCGPD	1.15E-17	HAGTGTI	1.46E-20	VVPNTDLLDDHQ	8.61E-14	EMARYLADEGYA	1.64E-10
<i>Clonostachys chloroleuca</i>	CAI6100125.1	TVGATV ^g FPKLTKTV	2.26E-15	LRIQCGPD	1.15E-17	HAGTGTI	1.21E-20	VVPNTDLLDDHQ	8.61E-14	EMAHYLADEGYA	6.23E-10
<i>Clonostachys rhizophaga</i>	CAH0016028.1	TVGATV ^g FPKLIKTV	8.76E-16	LRIQCGPD	1.15E-17	HAGTGTI	1.21E-20	VVPNTDLLDDHQ	8.61E-14	EMARYLADEGYA	1.64E-10
<i>Clonostachys rosea</i>	CAG9943511.1	TVGATV ^g FPKLIKTV	8.76E-16	LRIQCGPD	1.15E-17	HAGTGTI	1.21E-20	VVPNTDLLDDHQ	8.61E-14	EMARYLADEGYA	1.64E-10
<i>Clonostachys solani</i>	CAH0053102.1	TVGATV ^g FPKLIKTV	8.76E-16	LRIQCGPD	1.15E-17	HAGTGTI	1.21E-20	VVPNTDLLDDHQ	8.61E-14	EMAHYLADEGYA	6.23E-10
<i>Emericloopsis atlantica</i>	XP_046118537.1	TVGATV ^g FPDLTRAA	2.13E-16	LRIQCGPD	8.2E-17	HAGTGTI	8.25E-18	VVPNTSLDDHQ	5.68E-14	ELARH ^h LSKEGYA	2.21E-12
<i>Hapsidospora chrysogena</i>	KFH41691.1	TVGATV ^g FEDLTRAV	2.55E-17	LRIQCGPD	1.03E-18	HAGTGTI	2.48E-20	VVPNTRLLNDHQ	2.87E-13	ELARH ^h LGNEGYA	6.23E-10
<i>Stachybotrys chartarum</i>	KFA52060.1	TVGATV ^g FRSLTQTA	3.57E-16	LRIQCGPD	4.77E-20	HAGTGTI	8.18E-19	VVPNESLLDDHQ	3.25E-13	EMAKH ^h LATEGYA	4.14E-12
<i>Stachybotrys chlorohalonata</i>	KFA66408.1	TVGATV ^g FKSLTQIA	2.26E-15	LRVQCGPD	3.74E-20	HAGTGTI	8.18E-19	VVPNESLLDDHQ	3.25E-13	EMAKH ^h LATEGYA	4.14E-12
<i>Stachybotrys elegans</i>	KAH7326028.1	TVGATV ^g FQSLIETA	7.2E-16	LRIQCGPD	8.09E-18	HAGTGTI	1.21E-20	VVPNSSLLDDHQ	6.15E-13	EMARH ^h LAKEGYA	6.00E-13
<i>Trichothecium roseum</i>	KAI9900351.1	TVGATV ^g FEKLTKAV	2.01E-17	LRVQSGPD	8.58E-15	HAGTGTI	1.34E-18	VVPNTSLDDHQ	5.68E-14	EMAQH ^h MAQAGYA	2.50E-10
<i>Aphanocladium album</i>	KAJ6785788.1	TVGATV ^g FRKLTAAV	9.62E-18	LRVQCGPD	4.53E-19	HAGTGTI	2.18E-19	VVPNTDLLNDHQ	1.76E-13	EMAQH ^h LAQEGYA	1.91E-11
<i>Colletotrichum abscissum</i>	KAI3548229.1	TVGATAR ^f TQLLTEV	4.56E-19	LTLQCGKD	3.15E-16	HAGTGTI	4.30E-19	VVPNTTLKDNHQ	3.05E-15	ELAEI ^h QRQGYG	3.56E-12

<i>Colletotrichum acutatum</i>	KAK1728796.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	3.15E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR L GYG	4.63E-10
<i>Colletotrichum aenigma</i>	XP_037173265.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.2E-17	NF		VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum asianum</i>	KAF0316491.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	5.48E-14	NF		VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum camelliae</i>	KAH0426174.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.2E-17	HAGTGT I	1.42E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum caudatum</i>	KAK2056574.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	5.58E-19	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum cereale</i>	KAK1983501.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	5.58E-19	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum chlorophyti</i>	OLN82217.1	TVGATARFTQLL SEA	7.47E-18	LT LQCGKD	3.71E-17	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum chrysophilum</i>	KAK1850901.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.2E-17	HAGTGT I	1.42E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum eremochloae</i>	KAK2012662.1	TVGATARFTQLL TEV	4.56E-19	LAL QCGKD	2.03E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum falcatum</i>	KAK1997804.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.09E-18	HAGTGT I	2.72E-18	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q AYG	6.87E-10
<i>Colletotrichum filicis</i>	KAI3546144.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	3.15E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum fioriniae</i>	XP_053047741.1	TVGATACFTQLL TEV	2.61E-18	LT LQCGKD	3.15E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum fruticola</i>	KAF4889272.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.2E-17	NF		VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum gloeosporioides</i>	KAH9228900.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.2E-17	HAGTGT I	1.42E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum godetiae</i>	KAK1688763.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	3.15E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum graminicola</i>	XP_008092350.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	5.58E-19	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum higginsianum</i>	XP_018156347.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGDD	2.73E-16	HAGTGT I	1.06E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum incanum</i>	KZL82890.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	1.15E-17	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum karsti</i>	XP_038751836.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.44E-16	HAGTGT I	8.25E-18	VV P NP T LKD NH Q	3.05E-15	ELADE I QR Q CYG	3.78E-10
<i>Colletotrichum limetticola</i>	KAK0377708.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	3.15E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum liriopes</i>	GJC85203.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	1.15E-17	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum lupini</i>	KAK1717078.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	3.15E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum musicola</i>	KAF6844777.1	TVGATARFTQLL DEV	9.72E-19	LT LQCGRD	2.15E-15	HAGTGT I	1.34E-18	VV P NP T LKD NH Q	3.05E-15	EMAE EEI QR Q GYG	9.06E-13
<i>Colletotrichum navitas</i>	KAK1589649.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	2.38E-19	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	2.03E-10
<i>Colletotrichum noveboracense</i>	KAJ0291777.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.2E-17	NF		VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum nupharicola</i>	KAJ0294167.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	8.2E-17	HAGTGT I	1.42E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12
<i>Colletotrichum nymphaeae</i>	KXH63825.1	TVGATARFTQLL TEV	4.56E-19	LT LQCGKD	3.15E-16	HAGTGT I	4.30E-19	VV P NP T LKD NH Q	3.05E-15	ELAE EEI QR Q GYG	3.56E-12

<i>Colletotrichum orbiculare</i>	TDZ14397.1	TVGATARFTQLLTEI	1.98E-18	LVLQCGRD	5.25E-15	HAGTGTI	5.58E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum orchidophilum</i>	XP_022472465.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	1.3E-16	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum paranaense</i>	KAK1543004.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	3.15E-16	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum phormii</i>	KAK1654730.1	TVGATARFTQLLTEV	1.24E-17	LTLQCGKD	3.15E-16	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum plurivorum</i>	KAF6839083.1	TVGATARFTQLLDEV	9.72E-19	LTLQCGKD	3.6E-15	HAGTGTI	1.34E-18	VVPNPTLKDNHQ	3.05E-15	EMAEIQRQGYG	9.06E-13
<i>Colletotrichum salicis</i>	KXH68169.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	3.15E-16	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum scovillei</i>	XP_035338834.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	3.15E-16	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum shisoi</i>	TQN74967.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGDD	2.36E-16	HAGTGTI	1.06E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum siamense</i>	XP_036489658.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	8.2E-17	HAGTGTI	1.42E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum sidae</i>	TEA14001.1	TVGATARFTQLLTEI	1.98E-18	LVLQCGRD	5.25E-15	HAGTGTI	5.58E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum simmondsii</i>	KXH39862.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	3.15E-16	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum sojae</i>	KAF6819562.1	TVGATARFTQLLDEV	9.72E-19	LTLQCGKD	1.75E-16	HAGTGTI	1.34E-18	VVPNPTLKDNHQ	3.05E-15	EMAEIQRQGYG	9.06E-13
<i>Colletotrichum somersetense</i>	KAK2040239.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	5.58E-19	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum sublineola</i>	KAK1967522.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	3.27E-18	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum tamarilloi</i>	KAK1504719.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	3.15E-16	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum tanacetii</i>	KAJ0168474.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGDD	2.36E-16	HAGTGTI	1.06E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum tofieldiae</i>	GKT60742.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	1.15E-17	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum trifolii</i>	TDZ55051.1	TVGATARFTQLLTEI	1.98E-18	LVLQCGRD	5.25E-15	HAGTGTI	5.58E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum tropicale</i>	KAJ3960067.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	8.2E-17	NF		VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum truncatum</i>	XP_036584982.1	TVGATARFTQLLTEV	3.9E-19	LTLQCGKD	3.66E-19	HAGTGTI	2.10E-17	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	7.40E-12
<i>Colletotrichum viniferum</i>	KAF4928949.1	TVGATARFTQLLTEV	4.56E-19	LTLQCGKD	8.2E-17	NF		VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Colletotrichum zoyisiae</i>	KAK2027693.1	TVGATARFTQLLTEV	4.56E-19	LNLQCGKD	2.27E-17	HAGTGTI	4.30E-19	VVPNPTLKDNHQ	3.05E-15	ELAEIQRQGYG	3.56E-12
<i>Sodionomyces alkalinus</i>	XP_028463447.1	TVGATARFTQLLAEV	1.72E-18	LTVQCGKD	2.24E-18	HAGTGTL	5.62E-17	VVPNPTLKDNHQ	3.05E-15	ELAEVQSQGYA	1.31E-10
<i>Daldinia bambusicola</i>	KAI1806735.1	TIGASASFKLIEEV	1.09E-17	LNIQCGPD	1.36E-17	HAGSGSI	1.13E-17	AVPNPTLMDNHQ	5.68E-14	EIADEMARQGHL	1.01E-9
<i>Daldinia caldarium</i>	XP_047790272.1	TIGASASFKLIEEV	1.09E-17	LNVQCGPD	6.77E-18	HAGSGSI	1.13E-17	AVPNPTLMDNHQ	5.68E-14	EIADEMARQGHL	1.01E-9
<i>Daldinia childiae</i>	XP_033434965.1	TIGASASFKLIEEV	1.09E-17	LTIQCGPD	2.27E-17	HAGSGSI	1.13E-17	AVPNPTLMDNHQ	5.68E-14	EIAEMDSQGH	9.07E-9
<i>Daldinia decipiens</i>	XP_049104523.1	TIGASASFKLIEEV	1.09E-17	LIIQCGPD	9.65E-18	HAGSGSI	1.13E-17	AVPNPTLMGNHQ	5.64E-13	EIAEMDSQGH	9.07E-9

<i>Daldinia eschscholtzii</i>	KAI1473488.1	TIGASASF K LLIEEV	5.13E-17	LTIQCGPD	8.4E-19	HAGSGSI	1.13E-17	AVPNPTLMDN H Q	5.68E-14	EIAEEMEKQGGHL	4.18E-10
<i>Daldinia grandis</i>	KAI0108307.1	TIGASASFQPLIEEV	1.58E-17	LTLCQCPD	3.93E-18	HAGSGSI	1.13E-17	AVANPTLMDN H Q	6.69E-13	EIAEEMDSQGGHL	9.07E-9
<i>Daldinia loculata</i>	KAI2779756.1	TIGASASF K LLIEEV	1.09E-17	LIIQCGPD	9.65E-18	HAGSGSI	1.13E-17	AVPNPTLMDN H Q	5.68E-14	EIAEEMDSQGGHL	9.07E-9
<i>Daldinia vernicosa</i>	XP_047867275.1	TIGASASF K LLIEEV	1.58E-17	LIIQCGPD	9.65E-18	HAGSGSI	1.13E-17	AVPNPTLMDN H Q	5.68E-14	EIAEEM H SQGGHL	1.47E-18
<i>Annulohypoxyylon bovei</i>	KAI2473205.1	TVGASASF K PLIEEM	6.12E-15	LIIQCGPD	1.11E-15	HAGSGSI	3.05E-18	AVPNPALMG N HQ	1.64E-12	EIADDMEEQGGFL	2.17E-18
<i>Annulohypoxyylon moriforme</i>	KAI1454471.1	TVGASASF K PLIEEV	2.36E-16	LIVQCGPD	1.89E-15	HAGSGSI	2.16E-18	AVPNLALMG N HQ	2.81E-11	EIADEMEKQGGFL	3.41E-10
<i>Annulohypoxyylon nitens</i>	KAI0892314.1	TVGASASF K PLIEEV	2.36E-16	LIVQCGPD	1.65E-15	HAGSGSI	1.55E-17	AVPNPALMG N HQ	1.64E-12	EIAEEMEKQGGFL	2.03E-10
<i>Annulohypoxyylon stygium</i>	KAI1446163.1	TVGASASF K PLIEEV	2.36E-16	LIVQCGPD	1.65E-15	HAGSGSI	2.16E-18	AVPNPALMG N HQ	1.64E-12	EIAEEMEKQGGFL	2.03E-10
<i>Annulohypoxyylon truncatum</i>	XP_047856260.1	TVGASASF K PLIEEV	2.36E-16	LIVQCGPD	9.67E-16	HAGSGSI	3.05E-18	AVPNPALMG N HQ	1.64E-12	EIADEMEKQGGFL	3.41E-10
<i>Hypoxyylon cercidicola</i>	KAI1778259.1	TVGASASF K PLIEEV	5.07E-18	LVVQCGPD	1.65E-15	HAGSGSI	3.14E-17	AVPNTSLMDN H Q	1.11E-13	EIAVEMERQGGFL	7.57E-10
<i>Hypoxyylon crocepeplum</i>	KAI1380815.1	TVGASASF K SLIKEI	1E-16	LIVQCGPD	2.03E-16	HAGSGSI	1.02E-17	AVPNPALMG N HQ	1.64E-12	EIAEEMEKQGGFL	2.03E-10
<i>Hypoxyylon fragiforme</i>	XP_049114466.1	TIGASASFQPLIAEV	7.94E-16	LIVQYCPD	6E-17	HAGSGSI	3.82E-17	AVPNPSLMDN H Q	1.11E-13	EIATEMENEGFL	8.36E-9
<i>Hypoxyylon fuscum</i>	KAI1401401.1	TVGASASF K SLVDEV	5.74E-17	LMVQCGPD	6.72E-15	HAGSGSI	2.57E-17	AVPNPTLMDN H Q	5.68E-14	EIADEMEKQGGLL	2.76E-9
<i>Hypoxyylon rubiginosum</i>	KAI4863860.1	TVGASASF K PLIEEV	5.07E-18	LVVQCGPD	8.44E-16	HAGSGSI	1.72E-17	AVPNTSLMDN H Q	1.11E-13	EIAEEMEEQGGFL	1.34E-9
<i>Hypomontagnella monticulosa</i>	KAI0386569.1	TVGASASF K SLIDEV	3.23E-17	LIVQCGPD	1.97E-14	HAGSGSI	3.46E-17	AVPNPTLMG N HQ	5.64E-13	EIAKDM D KKKEFL	6.88E-7
<i>Hypomontagnella submonticulosa</i>	KAI2638882.1	TVGASASF K SLIDEV	1.55E-16	LIVQCGPD	5.94E-15	HAGSGSI	3.46E-17	AVPNPTLMG N HQ	5.64E-13	EIAKEM D KKKGFC	2.73E-8
<i>Jackrogersella minutella</i>	KAI1107063.1	TVGASASF K PLIEEV	1.09E-17	LIVQCGPD	3.93E-18	HAGSGSI	5.35E-18	AVPNPALMG N HQ	1.64E-12	EIADEMEKQGGFL	3.41E-10
<i>Rostrohypoxyylon terebratum</i>	KAI1092632.1	TVGASSSF K PLIEEV	2.06E-15	LIIQCGPD	9.67E-16	HAGAGSI	4.21E-17	AVPNPALMDN H Q	2.40E-13	EIAEEMGKQGGFL	3.60E-9
<i>Biscogniauxia marginata</i>	KAI1502855.1	TIGATAGFRPLVEEV	3.9E-18	LIVQCGPD	1.12E-16	HAGSGSI	1.51E-18	AVPNPSLMDN H Q	1.11E-13	ELAEEMELQGYA	2.03E-10
<i>Biscogniauxia mediterranea</i>	KAI1491791.1	TIGATAGFRPLIEEV	1.5E-18	LVVQCGPD	2.15E-15	HAGSGSI	2.45E-16	AVANPALMDN H Q	1.89E-12	ELAEEMERQGYA	6.00E-13
<i>Durotheca rogersii</i>	XP_051368855.1	TVGASSSFRRLLQEV	1.12E-14	VIVQCGPD	5.25E-15	HGGSGSI	1.31E-16	AVPNPELMDN H Q	2.15E-13	EIVEGMAQEGFL	1.27E-6
<i>Whalleya microplaca</i>	KAI1081251.1	TVGATASFRPLIEEV	1.5E-18	LIVQCGPD	2.79E-15	HAGSGSL	1.73E-15	AVPNTSLMG N HQ	9.35E-13	EIAIELEK D NYV	1.16E-8
<i>Microdochium bolleyi</i>	KXJ90972.1	TIGATAGFRPLLEE V	3.88E-20	LLVQCGPD	8.2E-17	HAGSGSI	2.51E-19	AVPNESLMDN H Q	5.64E-13	ELADEMQTQGGFL	1.11E-9
<i>Microdochium nivale</i>	KAJ1326562.1	TIGATAGFRPL L DEV	3.9E-19	LLVQCGPD	7.6E-15	HAGSGSI	2.51E-19	AVPNESLMDN H Q	5.64E-13	ELANEMQSQGGFL	5.51E-9
<i>Microdochium trichocladiopsis</i>	XP_046009150.1	TIGATAGFRPL L DEV	3.9E-19	LVVQCGPD	8.58E-15	HAGSGSI	2.51E-19	AVPNESLMDN H Q	5.64E-13	ELADEMQTQGGFL	1.11E-9
<i>Monosporascus cannonballus</i>	RYO83116.1	TVGATAGFQPL L AEV	3.23E-17	LVVQCGPD	1.3E-13	HAGSGSI	7.21E-19	AVPNPALMDN H Q	2.40E-13	ELAEEMERQGYL	3.56E-12
<i>Monosporascus ibericus</i>	ROP07719.1	TVGATAGFRPL L AEV	1.58E-17	LVIQCGPD	7.6E-15	HAGSGSI	4.90E-19	AVPNPALMDN H Q	2.40E-13	ELAEEMERQGYA	6.00E-13

<i>Pestalotiopsis fici</i>	XP_007834024.1	TIGSIASF K SLITEV	1.71E-15	L V VQCGPD	1.09E-14	HAGAGTI	6.11E-15	VVPNTSLMDN H Q	5.61E-15	ELAEELERQGYL	4.14E-12
<i>Truncatella angustata</i>	XP_045959758.1	TIGSIASF K DLVEEV	6.12E-15	LIVQCGPD	1.09E-14	HAGAGTI	2.35E-14	VVPNTSLMDN H Q	2.25E-18	NF	
<i>Pseudomassariella vexata</i>	XP_040716094.1	TIGATASF K DLITEV	2.48E-15	LIVQCGPD	1.31E-11	HAGAGTI	2.45E-16	VVPNATLMDN H Q	2.87E-13	QLAKAMDKEGYL	2.53E-9
<i>Eutypa lata</i>	KAI1250716.1	TVGATAGFQPLLQEV	6.57E-18	LVIQCGPD	8.58E-15	HAGSGTI	2.88E-19	AVANPALMDN H Q	1.89E-12	ELAKEMERQGF	7.47E-11
<i>Cercophora newfieldiana</i>	KAK0644497.1	TVGATAGFRQLLAEV	2.27E-17	LSVQCGPD	3.6E-15	HAGTGTV	2.72E-18	VVPNTLMDN H Q	4.60E-16	ELAEVEENQRWG	2.01E-8
<i>Cercophora samala</i>	KAK0666350.1	TIGSIASF L PLLEQV	2.48E-15	LTVQCGPN	8.87E-13	HAGAGTI	1.15E-15	VVPNTLMDN H Q	4.60E-16	ELAVEIQRQGWA	8.38E-11
<i>Lasiosphaeria miniovina</i>	KAK0733273.1	TVGATAGFPQLLAEV	4.08E-17	LEVQCGPD	3.92E-14	HAGSGTI	1.59E-15	AVPNPTLMDN H Q	5.68E-14	ELADVIEPQGWG	2.73E-8
<i>Immersiella caudata</i>	KAK0616255.1	TVGATAGFRPLLAEV	4.84E-16	LVVQCGPD	2.73E-12	HAGTGTV	2.72E-18	VVPNTLMMN H Q	5.61E-15	ELAECEKQRWA	2.31E-9
<i>Apiosordaria backusii</i>	KAK0701482.1	TIGSIASF L PLLEQ	2.48E-15	LTVQCGPN	1.72E-12	HAGAGTI	1.15E-15	VVPNTLMDN H Q	4.60E-16	ELAVEVQRQGWA	4.63E-10
<i>Collariella sp. IMI 366227</i>	KAJ4302561.1	TIGATAGFRSLLEE	3.16E-20	LHVQCGPD	1.23E-14	NF		VVANPTLMDN H Q	9.30E-14	ELAE S LEE Q GVA	3.98E-8
<i>Thermothielavioides terrestris</i>	XP_003650890.1	TVGATASFRALLDE	8.38E-20	LEAQCGPD	4.47E-13	NF		VVANPTLMDN H Q	9.30E-14	ELAE T LEEENRA	2.63E-7
<i>Staphylotrichum longicolle</i>	KAG7286337.1	TVGATAGFRSLLEE	2.07E-20	LLDVQCGPD	2.49E-14	NF		VVANPTLMDN H Q	9.30E-14	ELAE S LEE Q NLA	6.18E-8
<i>Thermochaetoides thermophila</i>	XP_006694985.1	TVGATAGFRDLLDE	1.3E-18	LDVQCGPD	2.22E-14	NF		VVANPTLMDN H Q	9.30E-14	ELAE D LARRKLA	1.19E-6
<i>Podospora anserina</i>	XP_001903917.1	TIGSIASF L PLLEQV	2.48E-15	LTVQCGPN	8.87E-13	HAGAGTI	1.47E-15	VVPNTLMDN H Q	4.60E-16	ELAVEVQRQGWA	4.63E-10
<i>Echria macrotheca</i>	KAK1750845.1	TVGATAGFRPLLERV	2.27E-17	LEVQCGPD	8.6E-12	HAGTGTI	8.21E-17	VVPNTLMDN H Q	4.60E-16	ELADEIARN G WG	1.22E-9
<i>Madurella mycetomatis</i>	KXX75366.1	TVGATASFRVLIEEV	3.32E-19	LDVQCGPD	6E-17	HGGSGTV	4.64E-17	VVVNPTLMDN H Q	1.02E-12	ELAQSLADQ N WA	2.01E-8
<i>Diaporthe ampelina</i>	KKY39506.1	TGGATV F FVALLEE	6.34E-14	VYLQCGIA	4.47E-13	HAGTGTI	3.83E-15	IVANTTLMDD H Q	1.89E-12	NF	
<i>Diaporthe amygdali</i>	KAK2615727.1	TGGATV F FVPLLEE	8.7E-14	VYLQCGTA	3.5E-14	HAGTGTI	3.20E-16	IVANTTLMDD H Q	1.89E-12	NF	
<i>Diaporthe batatas</i>	XP_044649453.1	TGGATV F FVGLLEET	1.61E-13	VFLQCGSV	1.18E-12	HAGTGTI	4.53E-16	IVANSTLMDD H Q	8.92E-12	NF	
<i>Diaporthe eres</i>	KAI7784925.1	TGGATV F FVALLEE	6.34E-14	VYLQCGAA	1.45E-13	HAGTGTI	5.24E-15	IVANTTLMDD H Q	1.89E-12	NF	
<i>Diaporthe helianthi</i>	POS75403.1	TGGATV F FVGLLEE	1.28E-13	VYLQCGSV	2.2E-13	HAGTGTI	4.84E-15	IVANSTLMDD H Q	8.92E-12	NF	
<i>Diaporthe ilicicola</i>	KAI3397926.1	TGGATV F FVALLEE	6.34E-14	VYLQCGAA	2.7E-13	HAGTGTI	3.83E-15	IVANTTLMDD H Q	1.89E-12	NF	
<i>Valsa sordida</i>	ROV96478.1	NF		LHLQCN T F	9.76E-13	NF		IVANPNLMDN H Q	2.70E-12	NF	
<i>Cytospora leucostoma</i>	ROW08189.1	TGGATV F FKELLHEV	4.99E-14	IDIQCGSE	1.79E-13	HAGTGTI	1.24E-15	IVANPNLMDN H Q	2.70E-12	NF	
<i>Coniella lustricola</i>	PSR99022.1	TGGATVV F RELVD E T	1.39E-13	LLLQCGVY	8.05E-13	HAGTGTI	8.95E-15	IVANPNLMDN H Q	2.70E-12	NF	
<i>Gnomoniopsis smithogilvyi</i>	KAJ4396492.1	TGGATVV F FKELLDEV	4.6E-13	VLIQCGSY	1.55E-11	NF		IVANPNLMDN H Q	2.70E-12	NF	
<i>Cryphonectria parasitica</i>	XP_040771798.1	TGGATVV F KE L ID E T	5.86E-14	LLLQCGTY	1.89E-12	HAGTGTI	2.72E-14	IVANPNLMDN H Q	2.70E-12	NF	

<i>Pyricularia grisea</i>	KAI6356710.1	TIGATAGFRALLEQV	5.78E-18	MTVQCGSD	1.02E-11	HAGAGTV	4.19E-14	VVPNEGLMDNHQ	2.40E-13	ELATHLDQERWA	3.43E-8
<i>Pyricularia oryzae</i>	KAH8839881.1	TIGATAGFRSLLEQV	6.57E-18	MTVQCGSD	1.02E-11	NF		VVPNEGLMDNHQ	2.40E-13	ELATHLDKERWA	5.99E-9
<i>Magnaporthiopsis poae</i>	KLU92256.1	TVGATASFRPLLAIE	5.74E-17	IQVQCGPD	6.63E-12	HAGAGTV	1.75E-14	VVPNEDLLDNHQ	1.37E-13	NF	
<i>Gaeumannomyces tritici</i>	XP_009216301.1	TVGATASFRPLLAIE	5.74E-17	IQVQCGPD	2.55E-11	HAGAGTV	2.35E-14	IVPNEDLLDNHQ	9.35E-13	NF	
<i>Sporothrix brasiliensis</i>	XP_040616120.1	TVGATASFIRLLREV	4.45E-18	LVVQTGPD	6.08E-12	HAGSGSI	7.55E-16	VVANPDLLGNHQ	2.03E-12	ELADAVHDAGWA	1.89E-7
<i>Sporothrix schenckii</i>	XP_016583713.1	TVGATASFIKLLREV	4.56E-19	LVVQTGPD	6.08E-12	HAGSGSI	7.55E-16	VVANPDLLGNHQ	2.03E-12	ELADAVHDAGWA	1.89E-7
<i>Grosmannia clavigerum</i>	XP_014168710.1	TVGATASFYRLLEEI	2.01E-17	LLVQTGPD	2.49E-12	HAGSGSI	6.80E-17	VVANGALLGNHQ	3.61E-11	ELAEAVQTAGWA	3.43E-8
<i>Ophiostoma piceae</i>	EPE10043.1	TVGATASFQKLLSDI	2.55E-17	LVVQTGPD	1.3E-12	HGGSGSI	7.12E-15	VVANPDLLGNHQ	2.03E-12	ELADAVDEAGWA	1.09E-7
<i>Coniochaeta hoffmannii</i>	KAJ9161119.1	TTGSMASFKALLQEV	1.06E-15	LEVQCGPD	3.64E-16	HAGSGTI	9.90E-17	VVANPDLLGNHQ	2.03E-12	NF	
<i>Coniochaeta ligniaria</i>	OIW29085.1	TTGSIASFRPLLEEIV	1.25E-16	LEVQCGPD	7.6E-15	HAGSGTI	2.10E-17	IVPNPTLLDNHQ	6.71E-14	ELASEMAAQDLA	1.43E-6
<i>Coniochaeta pulveracea</i>	RKU46626.1	TAGSVVSYRALLASV	4.34E-12	LEVQCGDD	8.05E-13	HAGAGTI	8.93E-16	VVANPDLMNHNQ	5.09E-13	ELADECAAKGYA	1.07E-8
<i>Cephalotrichum gorgonifer</i>	SPN99558.1	SVGATAFFTPLVSAA	9.65E-16	LVVQAGSD	4.39E-14	HAGTGTV	1.21E-14	VIPNPALQDNHQ	6.51E-12	ELAEELQNQGYA	6.43E-12
<i>Thozetella sp. PMI_491</i>	KAH8887751.1	TVGATAGFRPLLEEI	1.24E-17	LIVQCGPD	1.45E-13	HAGSGTI	1.09E-16	VVPNPTLMNHNQ	5.61E-15	ELAEEVERQNWA	8.34E-10
<i>Thyridium curvatum</i>	XP_030997551.1	NF		MAVQCGPD	6.63E-12	HCGSGTI	1.47E-15	AVPNPTLADNHQ	1.02E-12	ELAEVVDKNRWA	1.65E-7
<i>Phialemonium atrogriseum</i>	KAK1762406.1	TVGSIASFRALLTEI	1.12E-16	LEVQCGPD	1.31E-11	HAGAGTV	3.20E-16	VVPNSTLLDNHQ	9.30E-14	ELAECEKQNWA	6.23E-10
<i>Phaeoacremonium minimum</i>	XP_007914921.1	TGGATVAFRELSDEV	1.61E-13	LDVQCGKY	5.57E-16	NF		VVANPNLMDNHQ	5.64E-13	NF	
<i>Pleurostoma richardsiae</i>	KAJ9156358.1	TVGATATFPALVDEV	4.69E-15	VEIQCGDD	1.09E-9	NF		IVPNPDLMDNHQ	1.93E-13	NF	
<i>Ascochyta clinopodiicola</i>	KAJ4351106.1	TTGATAPFTALIESV	8.19E-21	LLVQYGSA	1.09E-14	HAGSGSI	2.95E-20	VVPNTSLLDNHQ	8.97E-15	ELAVAMERSGYL	5.65E-10
<i>Ascochyta lentis</i>	KAF9700101.1	TTGATAPFTALIESV	8.19E-21	VLIQYGSA	3.92E-14	HAGSGSI	8.23E-21	VVPNTSLLDNHQ	8.97E-15	ELAVAMERSGYL	5.65E-10
<i>Ascochyta rabiei</i>	XP_059492683.1	TTGATAPFAALIESV	7.22E-19	LLVQHGSA	2.22E-14	HAGSGSI	1.92E-18	VVPNTSLLDNHQ	8.97E-15	ELAVAMERSGYL	5.65E-10
<i>Didymella heteroderae</i>	KAF3044419.1	TTGATAPFTALIESV	8.19E-21	LLVQYGSA	1.15E-17	HAGSGSI	8.23E-21	VVPNTSLLDNHQ	8.97E-15	ELADAMERSGYL	3.07E-10
<i>Didymella pomorum</i>	KAJ4403697.1	TTGATAPFTALIESV	8.19E-21	LLVQYGSA	1.11E-15	HAGSGSI	8.23E-21	VVPNTGLLDNHQ	4.25E-14	ELADAMERSGYL	3.07E-10
<i>Boeremia exigua</i>	KAJ8115054.1	TTGATAPFTALIESV	8.19E-21	LLVQYGSA	4.63E-15	HAGSGSI	8.25E-18	VVPNTSLLDNHQ	8.97E-15	ELAVAMERSGYL	5.65E-10
<i>Macroventuria anomochaeta</i>	XP_033560458.1	TTGATAPFTALIESV	8.19E-21	LLVQHGSA	1.61E-13	HAGSGSI	8.23E-21	VVPNTSLLDNHQ	8.97E-15	ELAVAMERSGYL	5.65E-10
<i>Epicoccum nigrum</i>	KAG9204943.1	TTGATAPFNALIESV	8.19E-21	LLVQYGSA	1.89E-15	HAGSGSI	7.21E-19	VVPNTGLLDNHQ	4.25E-14	ELADAMERSGYL	3.07E-10
<i>Stagonospora sp. SRC1lsM3a</i>	OAL06240.1	TTGATAPFTALIESA	2.82E-19	LLIQYGTA	2.79E-14	HAGSGTI	1.05E-18	VVPNTALLDNHQ	2.63E-14	ELAVAMERSNYL	2.31E-9
<i>Bysothecium circinans</i>	KAF1950910.1	TTGATAPFTALIEAV	6.36E-21	LLVQHGTA	3.91E-12	HAGSGSI	2.51E-19	VVPNTQLLDNHQ	4.92E-15	ELAAAMEKSNYL	8.36E-9

<i>Massarina eburnea</i>	KAF2642528.1	TTGATA P FTALIESV	6.36E-21	LLVQY G TA	6.12E-14	HAGSG S I	5.69E-20	VV P NTQLLD N HQ	4.92E-15	ELAVAME K S N YL	1.9E-9
<i>Bipolaris maydis</i>	XP_014081052.1	TTGATA P FTALIE S I	8.38E-20	LLVQY G SA	1.27E-15	HAGSG S I	8.23E-21	VV P NTGLLD N HQ	4.25E-14	ELAVAMER N N YL	2.76E-9
<i>Bipolaris oryzae</i>	XP_007689746.1	TTGATA P FTALIESV	8.19E-21	LLVQY G SA	9.67E-16	HAGSG S I	8.23E-21	VV P NTGLLD N HQ	4.25E-14	ELAVAMER N N YL	2.76E-9
<i>Decorospora gaudefroyi</i>	KAF1831972.1	TTGATA P FTALIESV	8.19E-21	LLVQY G SA	3.64E-16	HAGSG S I	8.23E-21	VV P NTGLLG N HQ	4.74E-13	ELAVAMER Q N YV	3.41E-10
<i>Kalmusia</i> sp. IMI 367209	KAJ4295449.1	TTGATA P FTGLIESV	5.75E-20	V F VQ F GSA	1.83E-11	HAGSG T I	9.07E-20	VV P NRALLD N HQ	1.40E-12	ELAVAME E E A NYL	2.17E-8
<i>Karstenula rhodostoma</i>	KAF2449100.1	TTGATA P FTKLIE A V	4.9E-21	ILI Q Y G TA	2.49E-12	HAGSG S V	8.18E-19	VV P NTALLD N HQ	2.63E-14	ELAVAM D RAGYV	3.60E-9
<i>Paraphoma chrysanthemicola</i>	KAH7083038.1	TTGATA P FTALIESV	8.19E-21	LLI Q Y G SA	3.15E-16	HAGSG T I	2.95E-20	VV P NTSLLD N HQ	8.97E-15	ELAVAMER S N YL	2.31E-9
<i>Setomelanomma holmii</i>	KAF2025903.1	TTGATA P FTALIESV	8.19E-21	LLVQY G SA	8.58E-15	HAGSG S I	2.95E-20	VV P NTALLD N HQ	2.63E-14	ELAVAMER S N YL	2.31E-9
<i>Pyrenochaeta</i> sp. DS3sAY3a	OAL53857.1	TTGATA P FTALIESV	8.19E-21	LLVQY G SA	7.6E-15	HAGSG T I	2.95E-20	VV P NTGLLD N HQ	4.25E-14	ELAVAMER S N YL	2.31E-9
<i>Cucurbitaria berberidis</i>	XP_040787765.1	TTGATA P FTALIESV	8.19E-21	LLVQY G SA	2.15E-15	HAGSG S V	2.18E-19	VV P NI G LLD N HQ	2.40E-13	ELAVAMER N QYL	2.53E-8
<i>Clohesyomyces aquaticus</i>	ORX91671.1	TTGATA P FEALIESV	3.88E-20	LLVQY G TA	8.49E-14	HAGSG S I	1.42E-19	VV P NTSLL G N H Q	1.76E-13	ELATAMAK N N YL	5.06E-9
<i>Dendryphion nanum</i>	KAH7135752.1	TTGATA P FTGLIESV	4.73E-20	LLVQY G TA	7.62E-14	HAGSG S I	1.51E-18	VV P NTLLLD N HQ	1.93E-13	ELAVAMER S G YL	5.65E-10
<i>Lophiostoma macrostomum</i>	KAF2657876.1	TTGATA P FTGLIE S I	1.09E-17	LLI Q Y G TA	1.61E-13	HAGSG S I	2.51E-19	VV P NTALLD N HQ	2.63E-14	ELAVAMER S N YL	2.31E-9
<i>Lophiotrema nucula</i>	KAF2116133.1	TTGATA P FIALIE A I	2.99E-18	LLI Q Y G TA	2.79E-15	HAGSG S I	2.51E-19	VV P NTALLD N HQ	2.63E-14	ELAIAME K S G YL	1.22E-9
<i>Melanomma pulvis-pyrius</i>	KAF2800153.1	TTGATA P FTGLIESV	8.38E-19	LLI Q Y G SA	1.27E-15	HAGSG S I	5.11E-17	VV P NT E LLD N HQ	2.36E-14	NF	
<i>Polyplosphaeria fusca</i>	KAF2739724.1	TTGATA P FT E LIRSV	2.07E-20	LLI Q Y G TA	9.46E-14	HAGSG T I	2.95E-20	VV P NTSLLD N HQ	8.97E-15	ELAAAMER S N YL	9.84E-9
<i>Trematosphaeria pertusa</i>	XP_033678715.1	TTGATA P FTALIES L	5.78E-18	LLI Q F G TA	1.97E-14	HAGSG S I	4.28E-18	VV P ND Q LLD N HQ	3.55E-13	ELAIAMER S N YL	5.51E-9
<i>Periconia macrospinoso</i>	PVI05090.1	TTGATA P FTSLIE S V	8.19E-21	LLI Q Y G TA	3.66E-13	HAGSG T I	4.85E-20	VV P NK Q LLD N HQ	3.94E-13	ELADAMER S RYL	4.65E-9
<i>Botryosphaeria dothidea</i>	KAF4303495.1	TIGATAT F D L VRAC	1.98E-13	LLVQY G K N	3.52E-11	HAGSG S I	1.98E-13	VV P NP T LLD N HQ	2.27E-15	ELAEILE Q Q G YV	6.23E-10
<i>Neofusicoccum parvum</i>	EOD43149.1	TIGATAT F DALITAC	7.47E-18	LLVQY G NN	4.08E-15	HAGSG S I	4.34E-21	VV P NP T LLD N HQ	2.27E-15	ELAEILE Q Q G YV	6.23E-10
<i>Macrophomina phaseolina</i>	EKG10336.1	TIGATAT F D L VRAC	2.99E-18	LLVQY G K N	1.92E-17	HAGSG S I	1.23E-19	VV P NP T LLD N HQ	2.27E-15	ELAEILE Q Q G YV	6.23E-10
<i>Aureobasidium melanogenum</i>	XP_040877796.1	TIGATAS F SALIR A T	7.22E-19	LIVQY G AD	4.08E-15	HAGSG T I	2.42E-18	VV P NS E LLD N HQ	3.55E-13	ELADALAD Q EYV	9.07E-9
<i>Mytilinidion resinicola</i>	XP_033579010.1	TVGATAS F NSLIS A T	2.82E-19	LLVQY G KD	4.53E-19	HAGSG T I	2.51E-19	VV P NE D LLD N HQ	1.37E-13	ELAKVLEE Q G YV	2.77E-10
<i>Lophium mytilinum</i>	KAF2488524.1	TVGATAS F NSLIS A T	2.82E-19	LLLQY G K E	1.3E-16	HAGSG T I	2.51E-19	VV P NE E LLD N HQ	1.76E-13	ELAKVLEE Q G YV	2.77E-10
<i>Glonium stellatum</i>	OCL07134.1	TIGATA A FNSLIS A C	2.61E-18	LLI Q Y G K E	1.45E-15	HAGSG S I	9.27E-19	VV P NP D LLD N HQ	1.34E-14	ELAE E LES Q G YV	4.65E-11
<i>Zopfia rhizophila</i>	KAF2193744.1	TTGATA P FT D L I KAV	2.82E-19	LVQY G TA	7.31E-13	HAGSG S I	4.85E-20	VV P NP R LLD N HQ	6.11E-12	NF	
<i>Aspergillus awamori</i>	GCB26403.1	TVGATAS F HLLQ S V	2.57E-20	LLL Q F G KD	5.94E-15	HAGSG S I	1.23E-19	VV P NP T L K D N HQ	3.05E-15	ELARE L Q E Q G YV	6.65E-11

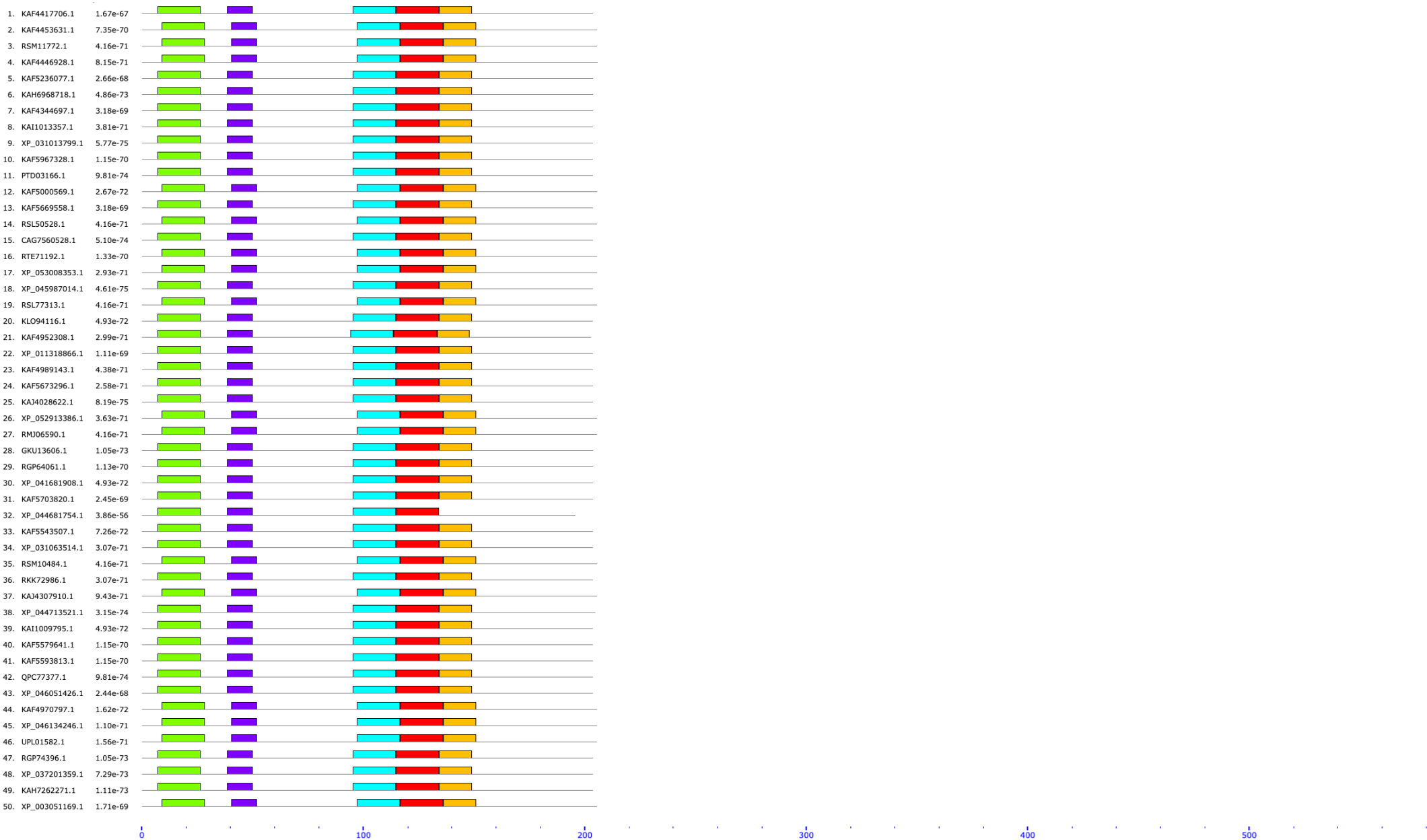
<i>Aspergillus brasiliensis</i>	OJJ74616.1	TVGATASFHLLQSV	2.57E-20	LLVQYGKD	6.77E-18	HAGSGSI	9.18E-18	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus carbonarius</i>	OOF95088.1	TVGATASFHLLQSI	1.72E-18	LLIQYGKD	1.92E-17	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus carlsbadensis</i>	KAJ0426393.1	TVGATASFHLLLES	8.48E-18	LLIQYGKD	1.75E-16	HAGSGSI	4.30E-19	VVPNPTLQDNHQ	7.41E-14	ELADVLQEEGYA	3.78E-10
<i>Aspergillus costaricensis</i>	XP_025534806.1	TVGATASFHLLQSI	2.55E-17	LLVQYGKD	6.77E-18	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus eucalypticola</i>	XP_025389724.1	TVGATASFRLLLQSV	2.57E-20	LLVQYGKD	6.77E-18	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus hancockii</i>	KAF7593079.1	TVGATASFHLLQGV	7.22E-19	LLVQYGKD	1.85E-18	HAGSGSI	1.23E-19	VVPNTTLKDNHQ	3.05E-15	ELARELHNQGYA	2.03E-10
<i>Aspergillus homomorphus</i>	XP_025547265.1	TVGATASFNLLQSI	5.75E-20	LLIQYGQD	3.93E-18	HAGSGSI	5.69E-20	VVPNPTLKDNHQ	3.05E-15	ELADILQEQGYL	7.57E-10
<i>Aspergillus ibericus</i>	XP_025575496.1	TVGATASFHLLQSV	8.38E-19	LLVQYGKD	8.2E-17	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQTQGYV	9.39E-11
<i>Aspergillus luchuensis</i>	XP_041539789.1	TVGATASFHLLQSV	2.57E-20	LLVQYGKD	6.77E-18	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus mulundensis</i>	XP_026604170.1	TVGATASFHLLKSI	3.32E-19	LLIQYGKD	6.77E-18	HAGSGSI	1.70E-18	VVPNPTLQDNHQ	7.41E-14	ELAEVLQDEGYA	2.77E-10
<i>Aspergillus neoniger</i>	XP_025476319.1	TVGATASFHFLQSI	1.3E-18	LLVQYGKD	6.77E-18	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus niger</i>	EHA26758.1	TVGATASFHLLQSV	2.57E-20	LLLQYGKD	3.64E-16	HAGSGSIL	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELARELQEQGYV	6.65E-11
<i>Aspergillus piperis</i>	XP_025512668.1	TVGATASFHLLQSV	2.57E-20	LLVQYGKD	1.75E-16	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus sclerotii carbonarius</i>	PY112272.1	TVGATASFHLLQSI	1.72E-18	LLIQFGKD	4.84E-16	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus sclerotioniger</i>	XP_025471984.1	TVGATASFHLLHSI	2.27E-17	LLIQYGKD	7.02E-17	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus tubingensis</i>	XP_035356720.1	TVGATASFHLLQSV	2.57E-20	LLVQYGKD	6.77E-18	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELAQELQKQGYV	5.57E-12
<i>Aspergillus versicolor</i>	XP_040664242.1	TVGATASFHFLKSI	1.98E-18	LLIQFGKD	3.15E-16	HAGSGSI	4.30E-19	VVPNPTLQDNHQ	7.41E-14	ELAEVLQDEGYA	2.77E-10
<i>Aspergillus welwitschiae</i>	XP_026629939.1	TVGATASFHLLQSV	2.57E-20	LLLQFGKD	5.94E-15	HAGSGSI	1.23E-19	VVPNPTLKDNHQ	3.05E-15	ELARELQEQGYV	6.65E-11
<i>Penicillium zonata</i>	XP_022583757.1	TVGATASFEPVLSAV	2.4E-19	LLVQYGKD	1.3E-16	HAGSGSI	3.05E-18	VVPNSSLKDNHQ	2.40E-13	ELARELQKQGYV	5.57E-12
<i>Penicillium alfredii</i>	XP_056508930.1	TVGATASFHGLLQQV	6.95E-20	LLIQYGRD	8.2E-17	HAGTGTI	1.05E-18	VVPNPDLADNHQ	4.74E-13	ELATVLDKQNYV	4.27E-9
<i>Penicillium bovisfimosum</i>	XP_056523126.1	TVGATAAFRKLLEQV	1.44E-19	FLVQYGKD	4.39E-14	HAGTGTI	3.76E-19	VVPNPDLADNHQ	4.74E-13	ELADVLEEDKYV	1.89E-7
<i>Penicillium macrosclerotiorum</i>	XP_056932270.1	TVGATASFELKVQEV	1.66E-20	LIVQYGKN	5.57E-16	HAGTGSI	2.42E-18	VVPNPDLADNHQ	4.74E-13	ELALELANYGGA	9.07E-9
<i>Penicillium odoratum</i>	XP_057001022.1	TVGATAFPDILRAV	2.4E-19	LIQHGTY	4.94E-13	HAGTGTI	1.23E-19	IVPNPALANNHQ	4.36E-12	ELAMQMENLGYG	1.54E-7
<i>Talaromyces amestolkiae</i>	XP_040733191.1	TIGATAPFDALLSNV	9.72E-19	LLIQYGKE	1.12E-16	HAGSGSI	4.28E-18	VVPNPALQDNHQ	3.25E-13	ELARQIAKNGWA	9.07E-9
<i>Talaromyces atrovirens</i>	XP_020124160.1	TIGATAPFDILLSNV	3.9E-18	LLIQYGKE	1.11E-15	HAGSGSI	4.28E-18	VVPNPALQGNHQ	2.03E-12	ELAKEIENNNGWA	9.18E-10
<i>Cladophialophora carrionii</i>	XP_008726825.1	TVGATAFPNSLVRV	4.73E-20	LQIQYGDQ	8.05E-13	HAGSGSI	1.22E-21	VVPNTDLLNHQ	3.94E-13	ELAEALAEQEYV	5.06E-9
<i>Cladophialophora chaetospora</i>	KAJ9603522.1	TVGATAFPNSLVRV	4.73E-20	LRIQYGDQ	2.22E-14	HAGSGSI	1.21E-20	VVPNTDLLNHQ	3.94E-13	ELAEALAEQEYV	5.06E-9

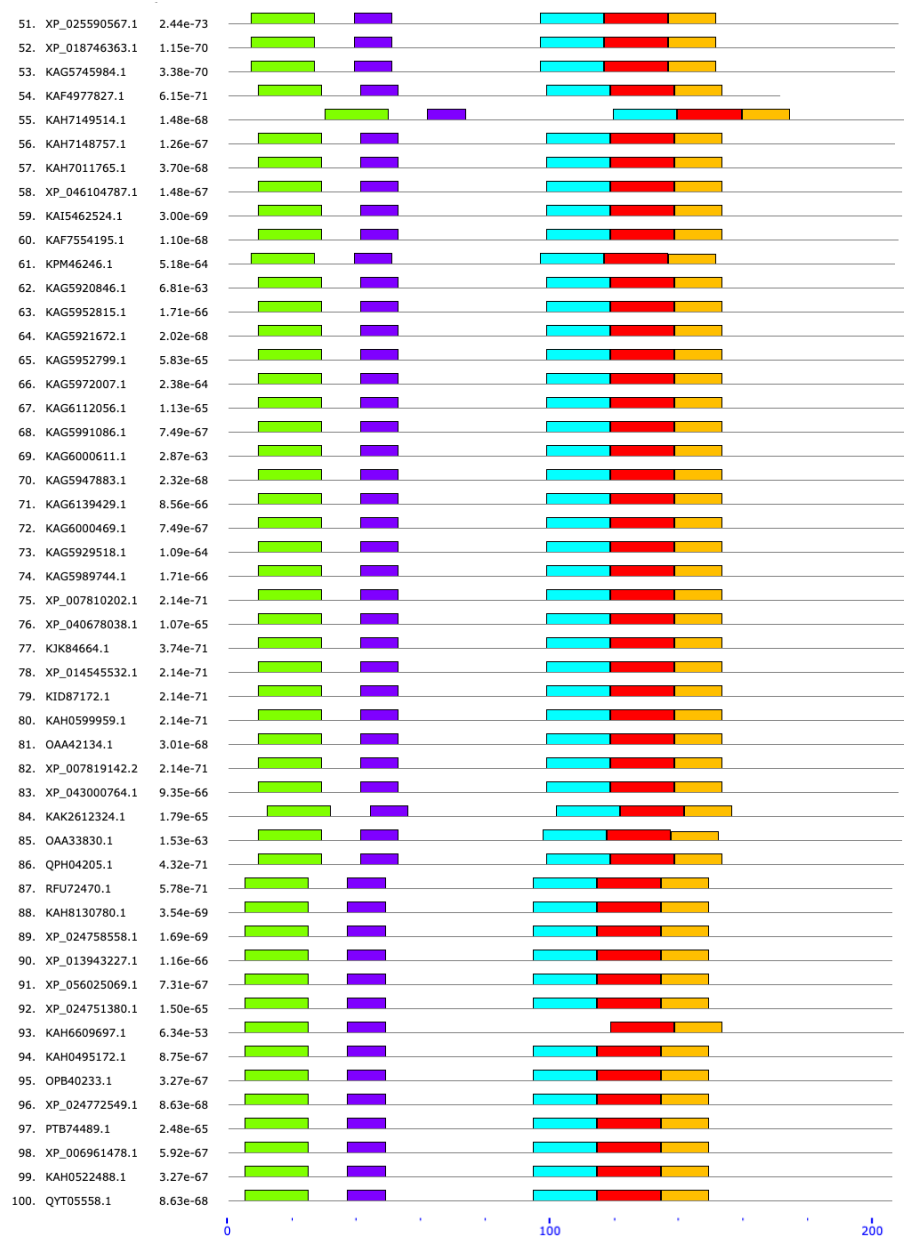
<i>Phaeomoniella chlamydospora</i>	KKY25069.1	TIGATAAFNSLLKAA	6.57E-18	LLLQYGSD	1.65E-15	HAGSGSI	2.10E-21	VVPNTDLLHNHQ	3.94E-13	ELAEELAKQDYV	3.41E-10
<i>Botryotinia calthae</i>	TEY39080.1	TVGATATFKELIEEV	8.48E-18	LRVQAGPD	5.25E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botryotinia convoluta</i>	TGO61616.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	8.58E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botryotinia globosa</i>	KAF7896435.1	TVGATAFVKELIEEV	2.4E-19	LRVQAGPD	3.13E-14	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botryotinia narcissicola</i>	TGO69167.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	1.56E-14	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis aclada</i>	KAF7946254.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	4.39E-14	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis byssoidea</i>	XP_038729320.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	1.45E-14	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis cinerea</i>	XP_001557717.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	5.25E-15	HAGSGTI	6.86E-23	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis deweyae</i>	XP_038812155.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	8.58E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis fragariae</i>	XP_037188780.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	8.58E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis galanthina</i>	THV55011.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	1.56E-14	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis paeoniae</i>	TGO28479.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	8.58E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis porri</i>	XP_038770654.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	5.25E-15	HAGSGTI	1.22E-21	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis sinoallii</i>	XP_038758083.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	8.58E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Botrytis tulipae</i>	TGO11019.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	1.56E-14	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Sclerotinia borealis</i>	ESZ92680.1	TVGATATFKELIEEV	1.3E-18	LRIQAGPD	1.61E-13	HAGSGTI	6.78E-22	VVPNTSLLDNHQ	8.97E-15	QLADELERQGYV	3.41E-10
<i>Sclerotinia nivalis</i>	KAJ8059674.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	5.25E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Sclerotinia sclerotiorum</i>	XP_001588350.1	TVGATATFKELIEEV	1.3E-18	LRVQAGLD	5.45E-13	HAGSGTI	6.86E-23	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Sclerotinia trifoliorum</i>	CAD6445273.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	5.25E-15	HAGSGTI	6.86E-23	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Monilinia laxa</i>	KAB8300938.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	1.76E-14	HAGSGTI	6.78E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Stromatinia cepivora</i>	KAF7858421.1	TVGATATFKELIEEV	1.3E-18	LRVQAGPD	5.25E-15	HAGSGTI	4.86E-22	VVPNTSLLDNHQ	8.97E-15	ELADELERQGYV	6.43E-12
<i>Rhoxocerosporidium sp. MPI-PUGE-AT-0058</i>	KAH7350870.1	TTGATAKFTELIQAA	1.88E-15	LNVCGES	4.67E-12	HAGAGTI	1.92E-18	VVPNSSLLDNHQ	1.93E-13	ELAAELETQGYA	4.18E-10
<i>Pseudogymnoascus destructans</i>	XP_024324285.1	TLGATAFPFALLSAS	4.99E-14	LTLQCGAD	9.67E-16	HAGAGTA	8.21E-16	LVPNPALLDNHQ	1.89E-12	ELAKELDRMGYA	1.64E-10
<i>Pseudogymnoascus verrucosus</i>	XP_018130987.1	TLGATAFPPTLLSAS	1.1E-13	LTLQCGAD	9.67E-16	HAGAGTA	8.21E-16	LVPNPALLDNHQ	1.89E-12	ELAKELDKIGYA	3.41E-10
<i>Claussenomyces sp. TS43310</i>	KAI9740875.1	TIGATASFRAVLDAT	6.43E-17	LTLQCGPD	6.85E-19	HAGAGTI	1.42E-19	VVPNPPELLDNHQ	2.36E-14	ELAEELERQGYV	3.05E-12
<i>Alectoria fallacina</i>	CAF9938699.1	TVGATASFDSLIRAT	1.71E-19	LRLQH GK N	1.97E-14	HAGSGSI	2.95E-20	VVPNPDLLDNHQ	1.34E-14	ELAEELAIQGYV	3.07E-10
<i>Alectoria sarmentosa</i>	CAD6567071.1	TVGATASFDSLIRAS	9.72E-19	LRLQH GK D	3.6E-15	HAGSGSI	2.48E-20	VVPNPDLLDNHQ	1.34E-14	ELAEELATQGYV	5.91E-11

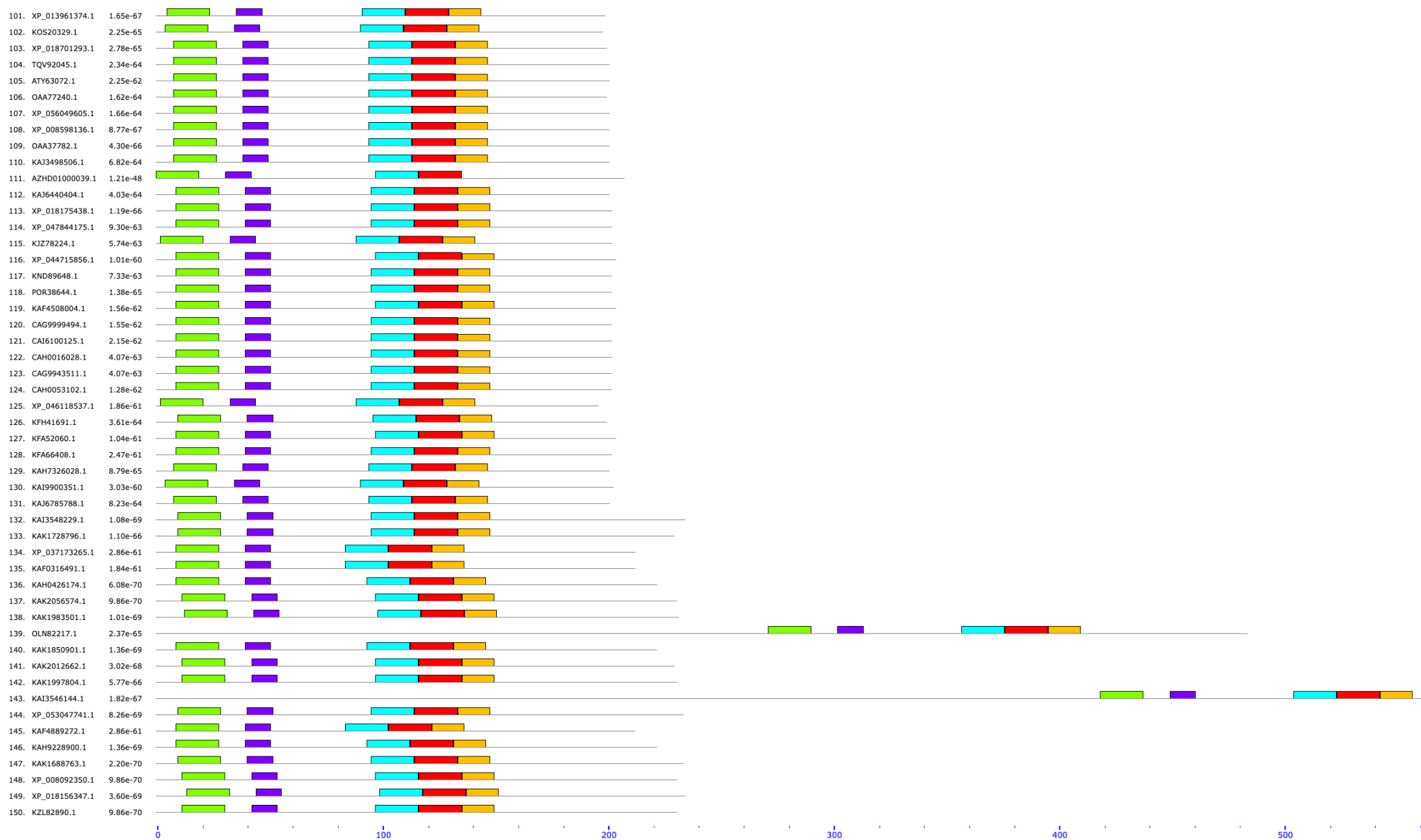
<i>Lasallia pustulata</i>	KAA6414625.1	TIGATASFDALIKEA	2.4E-19	LLQHGKE	5.48E-14	HAGSGSI	2.48E-20	VVPNPDLLNHFQ	1.34E-14	ELAEELSNQGYV	2.81E-11
<i>Pycnora praestabilis</i>	KAI9813616.1	TIGATASFDSLLKAV	2.57E-20	LLQYGKE	1.75E-16	HAGSGSI	2.37E-22	VVPNPPELLDNHFQ	2.36E-14	ELAEELAAQGYV	1.64E-10
<i>Xylona heveae</i>	XP_018185144.1	TIGATASFDALISAV	1.66E-20	LLVQYGKE	2.67E-17	HAGSGSI	2.48E-20	VVPNPSSLNHFQ	2.36E-14	ELAEELASMGYV	1.34E-9

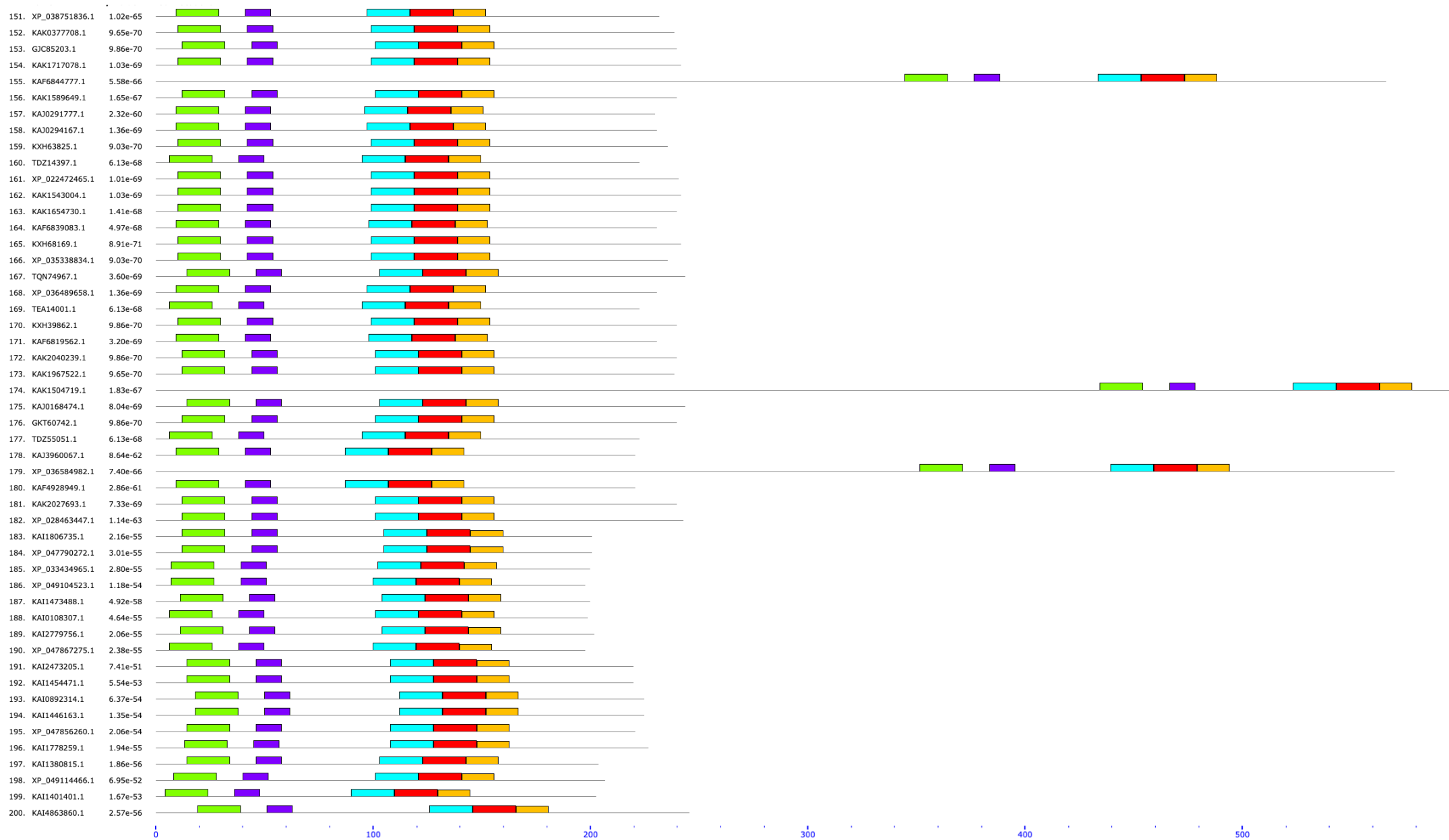
Accession number: Unique identifier assigned to each biological sequence within the NCBI database. **p-value:** Probability that a random sequence (of the same length) would match the test motif with a score equal to or higher than the highest found in the test sequence. **NF:** Not found.

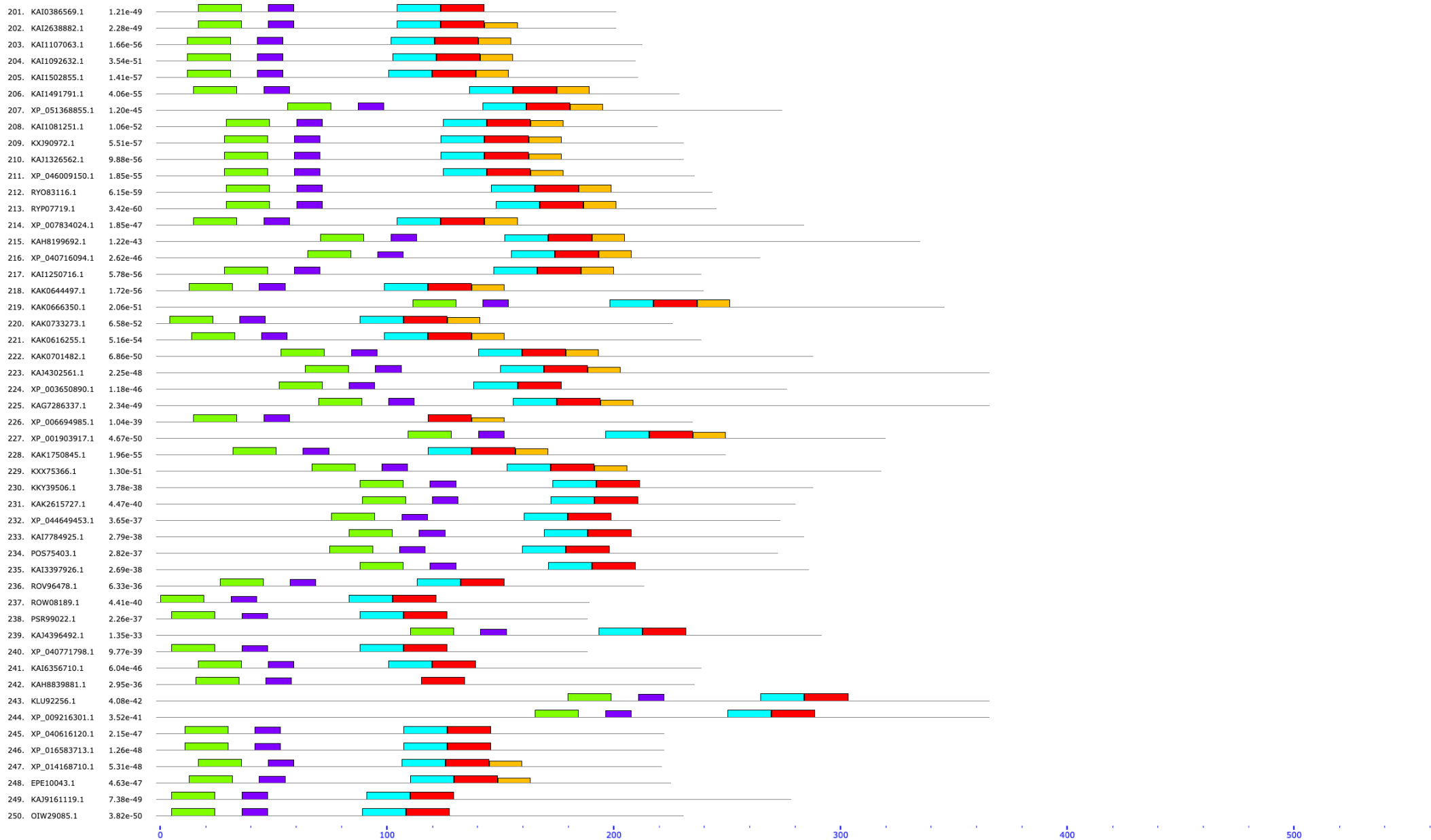
Figure S2. Motifs location types in putative Rht1 sequences.

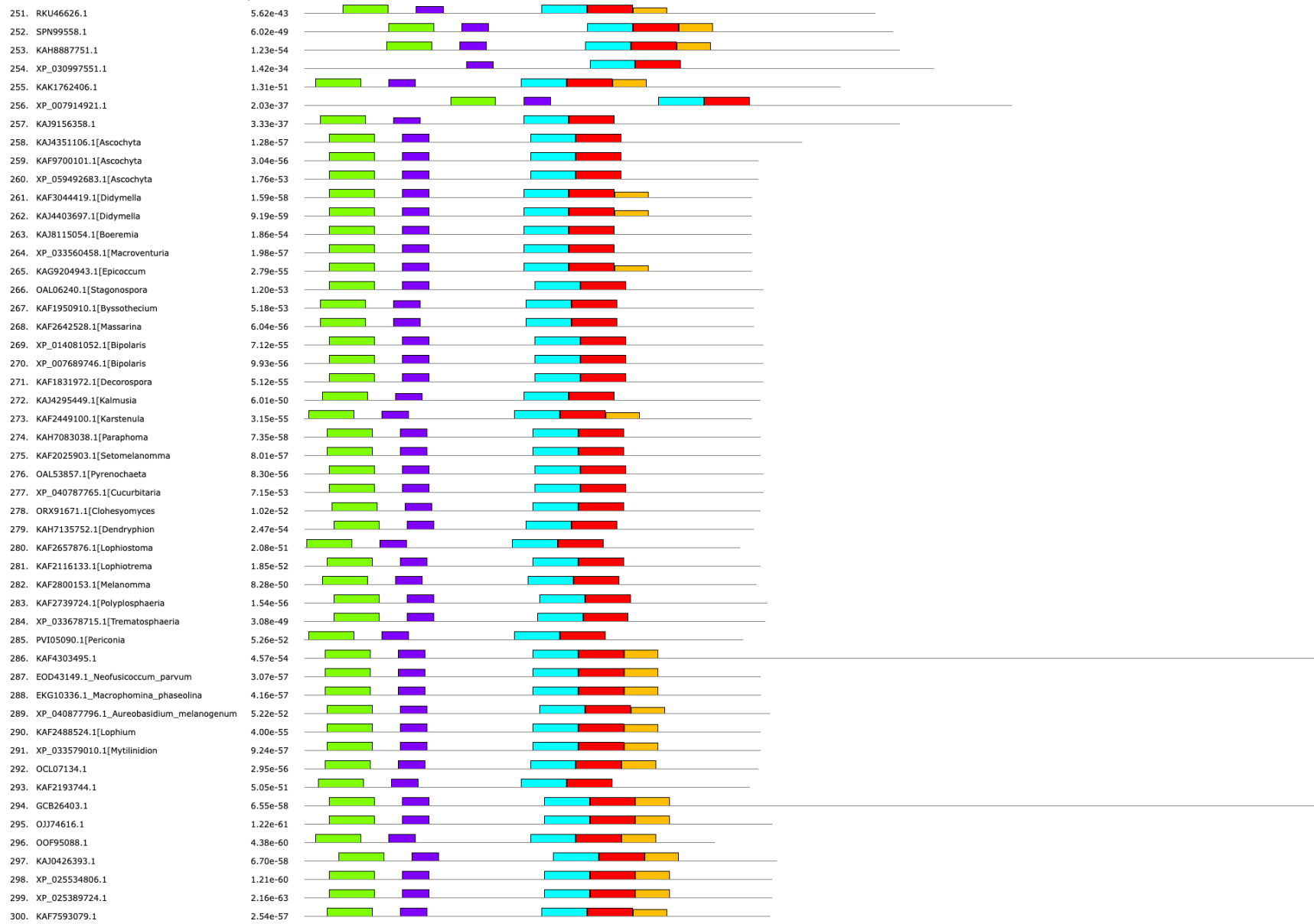












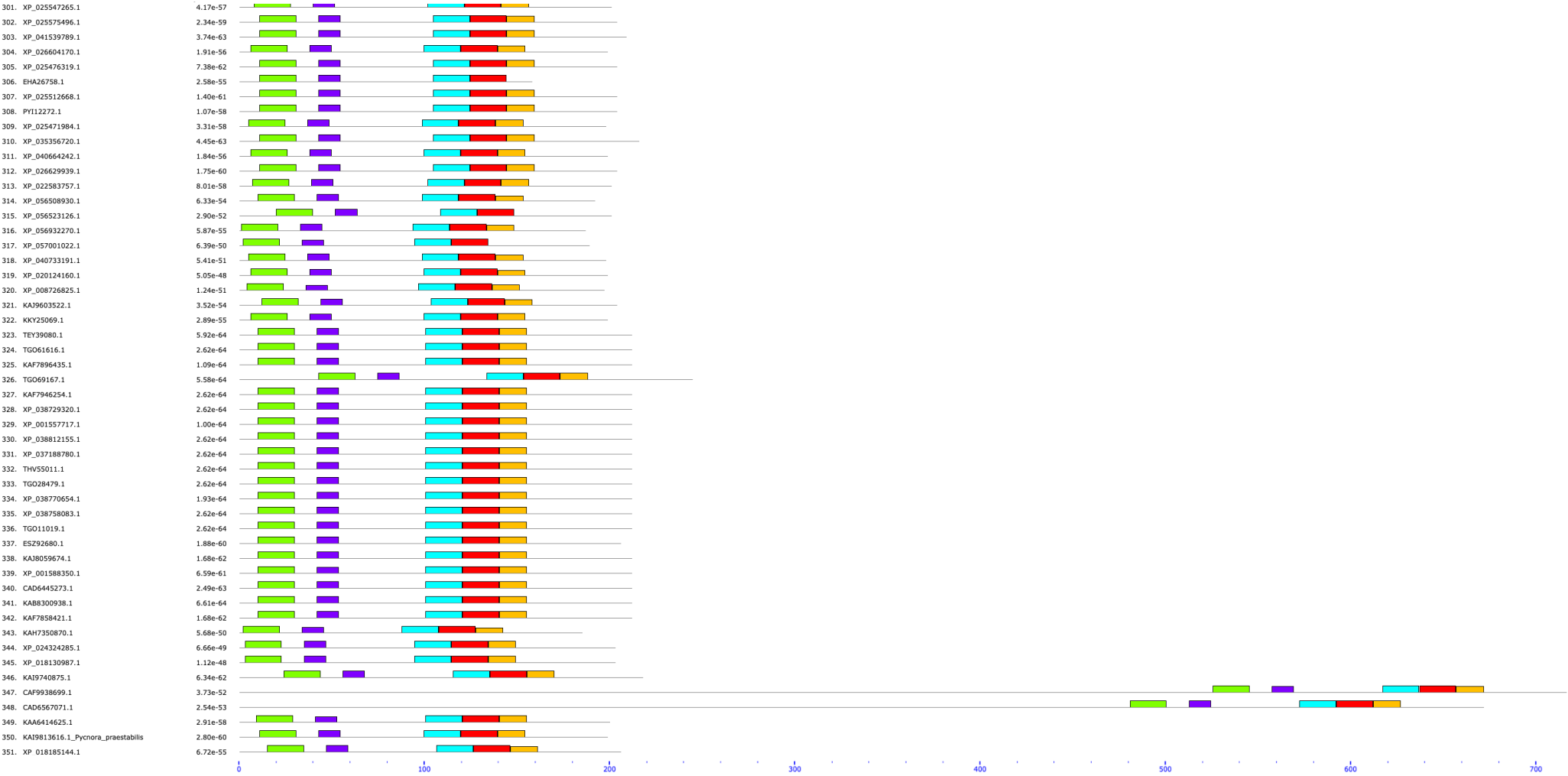


Table S3. Identified motifs in putative Rht2.

Species	Accession numbers	Motif 1	p-value	Motif 2	p-value	Motif 3	p-value	Motif 4	p-value	Motif 5	p-value
<i>Fusarium acutatum</i>	KAF4435765.1	TQGTLAMDPPTSLIIPS	9.69E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium albosuccineum</i>	KAF4470643.1	TQGTIARDYTDLLIPS	5.57E-18	PSNTRVIDYLPY	1.62E-14	MNAGYGGFLH	5.77E-20	VPLVLAGETEDK	3.69E-13	RGQWSGVAAANLR	6.23E-11
<i>Fusarium ambrosium</i>	RSL97308.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.53E-17	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium austroafricanum</i>	KAF4445897.1	TQGTLAMDPPTSLIIPA	3.17E-20	VPNVRYIKWIPY	4.88E-10	TNGGYGSITQ	1.02E-19	VPLICAGRTE DK	1.50E-12	RVSWAKAGIDLK	1.93E-10
<i>Fusarium austroamericanum</i>	KAF5233753.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.89E-17	IPLICAGQSE DK	3.24E-12	RVDWAGAGIDLK	4.13E-12
<i>Fusarium avenaceum</i>	KIL89965.1	TQGTLAMDPPTSLIIPA	3.17E-20	PSNVRFIKWIPY	2.56E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium beomiforme</i>	KAF4334837.1	TQGTIARDVTKLIIFT	3.40E-16	PPNSRVIDYLPY	4.51E-12	MNAGYGGFLH	4.66E-18	VPLVLAGETEDK	3.69E-13	RGEWSGVAVNLR	2.65E-13
<i>Fusarium chuo</i>	KAI1019319.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium coffeatum</i>	XP_031011366.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVGWAGAGIDLK	2.52E-11
<i>Fusarium coicis</i>	KAF5967796.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium culmorum</i>	PTD08619.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQSE DK	2.25E-13	RVDWAGAGIDLK	4.13E-12
<i>Fusarium decemcellulare</i>	KAF4990227.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRFKFI PY	1.79E-10	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RISWAGAGIDLK	6.27E-12
<i>Fusarium denticulatum</i>	KAF5676768.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVNWARAGIDLK	1.29E-10
<i>Fusarium duplospermum</i>	RSL66332.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium equiseti</i>	CAG7554771.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVGWAGAGIDLK	2.52E-11
<i>Fusarium euwallaceae</i>	RTE70560.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium falciforme</i>	KAJ4142701.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium flagelliforme</i>	XP_045981550.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVGWAGAGIDLK	2.52E-11
<i>Fusarium floridanum</i>	RSL81449.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium fujikuroi</i>	KLO93232.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWVRAGIDLK	5.43E-10
<i>Fusarium gaditjirri</i>	KAF4947967.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPYVRFIRWIPY	1.50E-9	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium graminearum</i>	PCD36796.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQSE DK	2.25E-13	RVDWAGAGIDLK	4.13E-12
<i>Fusarium graminum</i>	KAF4992880.1	TQGTLAMDPPTSLIIPA	3.17E-20	PLNVRFVKWIPY	3.64E-10	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium heterosporum</i>	KAF5665361.1	TQGTLAMDPPTSLIIPA	3.17E-20	PTNVRFVKWIPY	6.12E-11	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11

<i>Fusarium irregulare</i>	KAJ4002951.1	TQGTIAREASILIPT	6.60E-15	PSNTRVIDYLPY	1.62E-14	MNAGYGGFLH	6.74E-22	VPMVLAGESEDK	8.03E-14	RGEWSGVAVNLR	4.96E-13
<i>Fusarium keratoplasticum</i>	XP_052910685.1	TQGTIARDYTDLLIPT	3.22E-19	PANTRVIDYLPY	5.10E-14	MNAGYGGFLH	5.77E-20	VPLVLAGETEDK	3.69E-13	RGQWSGVAVNLR	1.21E-12
<i>Fusarium kuroshium</i>	RMJ08909.1	TQGTIARDYTDLLIPT	3.22E-19	PANTRVIDYLPY	5.10E-14	MNAGYGGFLH	5.77E-20	VPLVLAGETEDK	3.69E-13	RGQWSGVAVNLR	1.21E-12
<i>Fusarium langsethiae</i>	KPA39552.1	TQGTIAQDASNLIPT	8.90E-17	PSNTRIIDYLPY	3.38E-13	MNAGYGGFLH	5.77E-20	VPLVLAGESEDK	1.14E-12	RGDWSGVAVNLR	8.16E-12
<i>Fusarium longipes</i>	RGP64175.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQSEDK	2.25E-13	RVDWAGAGIDLK	4.13E-12
<i>Fusarium mangiferae</i>	XP_041689374.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium mundagurra</i>	KAF5715773.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium musae</i>	XP_044678177.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLQ	1.58E-10
<i>Fusarium napiforme</i>	KAF5530306.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium odoratissimum</i>	XP_031068097.1	TQGTIARDATNLIPT	1.42E-17	PSNTRVIDYLPY	1.62E-14	MNAGYGGFLH	5.77E-20	VPLVLAGETEDK	3.69E-13	RGEWSGVAINLK	9.86E-14
<i>Fusarium oligoseptatum</i>	RSM09688.1	TQGTIARDYTDLLIPT	3.22E-19	PANTRVIDYLPY	5.10E-14	MNAGYGGFLH	5.77E-20	VPLVLAGETEDK	3.69E-13	RGQWSGVAVNLR	1.21E-12
<i>Fusarium oxysporum</i>	KAJ4047383.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWASAGIDLK	1.93E-10
<i>Fusarium piperis</i>	KAJ4328312.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRFKAWIPY	1.18E-10	TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium poae</i>	OBS22433.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSITQ	1.02E-19	VPLICAGQSEDK	2.25E-13	RVDWAGAGIDLK	4.13E-12
<i>Fusarium proliferatum</i>	KAG4256852.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium pseudoanthophilum</i>	KAF5585516.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium pseudocircinatum</i>	KAF5606259.1	TQGTLAMDPPTSLIIPA	3.17E-20	PANVRFIRWIPY	1.01E-11	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium pseudograminearum</i>	QPC79958.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQSEDK	2.25E-13	RVDWAGAGIDLK	4.13E-12
<i>Fusarium redolens</i>	XP_046045510.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium sarcochroum</i>	KAF4970128.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRFVKWIPY	1.31E-10	TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVRWAGAGIDLR	1.37E-11
<i>Fusarium solani</i>	XP_046129193.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium solani-melongenae</i>	UPL00732.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium sporotrichioides</i>	RGP62770.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQSEDK	2.25E-13	RVDWAGAGIDLK	4.13E-12
<i>Fusarium tjaetaba</i>	XP_037210905.1	TQGTLAMDPPTSLIIPA	3.17E-20	PPNVRFIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWARAGIDLK	1.98E-11
<i>Fusarium tricinctum</i>	KAH7263618.1	TQGTLAMDPPTSLIIPA	3.17E-20	PSNVRFIKWIPY	2.56E-12	TNGGYGSITQ	1.02E-19	VPLICAGQTEDK	5.68E-14	RVSWTRAGIDLK	6.93E-11
<i>Fusarium vanettenii</i>	XP_003048134.1	TQGTLAMDPPTSLIIPA	3.17E-20	NF		TNGGYGSVTQ	1.34E-19	VPLICAGQTEDK	5.68E-14	RVSWAGAGIDLK	1.21E-12
<i>Fusarium venenatum</i>	KAG8361315.1	TQGTLAMDPPTSLIIPA	3.17E-20	LPNVRYVKWIPY	1.46E-10	TNGGYGSITQ	1.02E-19	VPLICAGQSEDK	2.25E-13	RVDWAGAGIDLK	4.13E-12

<i>Fusarium verticillioides</i>	XP_018759284.1	TQGTLAMDP PT SLIIPA	3.17E-20	PPNV R FIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQ TEDK	5.68E-14	RV S WARAGID LQ	1.58E-10
<i>Fusarium xylarioides</i>	KAG5750058.1	TQGTLAMDP PT SLIIPA	3.17E-20	PPNV R FIRWIPY	8.83E-12	TNGGYGSITQ	1.02E-19	VPLICAGQ TEDK	5.68E-14	RV S WAIAGVD LK	3.76E-10
<i>Fusarium zealandicum</i>	KAF4976478.1	TQGTLAMDP PT SLIIPA	3.17E-20	NF		TNGGYGSITQ	1.02E-19	VPLICAGQ TEDK	5.68E-14	RV S WAGAGVD LK	2.31E-12
<i>Dactylonectria estremocensis</i>	KAH7159663.1	TQGTLAMDP PT SLIVPA	7.19E-19	FEN V RF A KWIPY	6.50E-10	TNGGYGSITQ	1.02E-19	VPLICAGQ TEDK	5.68E-14	RI S WAGAGID LK	4.48E-11
<i>Dactylonectria macrodidyma</i>	KAH7143671.1	TQGTLAMDP PT SLIVPA	7.19E-19	FDN V RF A KWIPY	4.01E-10	TNGGYGSITQ	1.53E-17	LPLICAGQ TEDK	2.58E-11	RI S WAGAGID LK	4.48E-11
<i>Ilyonectria destructans</i>	KAH7002281.1	TQGTLAMDP PT SLIVPA	7.19E-19	FPN V RFARWIPY	3.30E-10	TNGGYGSITQ	1.02E-19	VPLICAGQ TEDK	5.68E-14	RVN S WAGAGID LK	1.37E-11
<i>Ilyonectria robusta</i>	XP_046110074.1	TQGT V ANDY S DL L IPT	1.79E-18	PAN T RVIDYLPY	5.10E-14	MNAGYGGFLH	4.54E-21	VPMVLGG SE DK	3.69E-13	RG A W S GVAVN L R	2.67E-12
<i>Mariannaea sp. PMI_226</i>	KAI5458596.1	TQGTLAMDP PT SLIIPA	3.17E-20	LPN V RFATFLPY	1.04E-9	TNGGYGSVTQ	3.33E-18	VPLICAGQ TEDK	5.68E-14	RV E WAGAGID L R	3.28E-13
<i>Stylonectria norvegica</i>	KAF7554329.1	TQGT V ANDYAD L LIPA	4.21E-16	PAN T RVIDYLPY	5.10E-14	MNAGYGGFLH	6.43E-21	VPMVL A GET EDK	1.75E-14	RG E W S GVAVN L R	4.96E-13
<i>Neonectria ditissima</i>	KPM40292.1	TQGTLAMDP PT SLIMPA	1.54E-18	LPN V RF A KWIPY	1.18E-10	TNGGYGSITQ	1.04E-18	IPLICAGQ TEDK	1.14E-12	RV A WAGAGID LK	1.21E-12
<i>Claviceps africana</i>	KAG5919883.1	TQGT V AVN H RDL L IPT	1.42E-17	PSN A HVIDYLPY	1.86E-13	SNGGYGGFIQ	2.43E-16	VPMILAG T ED K	2.69E-13	RG E YAGIAIN L R	4.74E-12
<i>Claviceps arundinis</i>	KAG5966788.1	TQGT V AVEY R H L LIPA	3.40E-16	PPN T HVIDYLPY	6.04E-13	MNAGYGGVIQ	6.35E-19	VPMVL A GG T ED K	1.46E-13	RA E HAGIAVN L R	7.72E-11
<i>Claviceps capensis</i>	KAG5921632.1	TQGT V AVEY R H L IPT	7.92E-17	PPN T HVIDYLPY	6.04E-13	MNAGYGGVIQ	6.35E-19	VPMVL A GG T ED K	1.46E-13	RA E HAGIAF N L R	4.96E-10
<i>Claviceps cyperi</i>	KAG5965626.1	TQGT V AVEY R H L IPT	7.92E-17	PPN T HVIDY L AY	4.88E-11	MNAGYGGVIQ	6.35E-19	VPMVL A GG T ED K	1.46E-13	RA E YAGIA N L R	4.12E-10
<i>Claviceps digitariae</i>	KAG5982393.1	TQGT V AMEY H EL L VPT	7.10E-16	PSN A HVIDYLPY	1.86E-13	SNAGYGGFIQ	1.04E-18	VPMVLGG E TE D K	1.01E-13	RG E Y S CI A IN L R	7.14E-12
<i>Claviceps humidiphila</i>	KAG6118839.1	TQGT V AVEY R H L LIPA	3.40E-16	PPN T HVIDYLPY	6.04E-13	MNAGYGGVIQ	6.35E-19	VPMVL A GG T ED K	1.46E-13	RA E HAGIAVN L R	7.72E-11
<i>Claviceps lovelessii</i>	KAG5986980.1	TQGT V AREYED L I P T	1.33E-18	PPN A HVIDYLPY	2.75E-13	SNAGYGGFLQ	4.72E-17	VPMVL A GET EDK	1.75E-14	RG E YAG V AIN L R	3.58E-12
<i>Claviceps maximensis</i>	KAG6002038.1	TQGT V AMDYEN L I P T	2.00E-21	PPN A RVIDYLSY	6.82E-14	SNAGNGGLIQ	3.71E-15	VPMV F AG I TE D K	4.13E-12	RG E YAGIAIN L R	4.74E-12
<i>Claviceps monticola</i>	KAG5944898.1	TQGT V AVEY R H L I P T	1.24E-17	PPN T HVIDYLPY	6.04E-13	MNAGYGGVIQ	6.35E-19	VPMVL A GG T ED K	1.46E-13	RA E HAGIAF N L R	4.96E-10
<i>Claviceps purpurea</i>	KAG6132685.1	TQGT V AVEY R H L I P T	1.24E-17	PPN T HVIDYLPY	6.04E-13	MNAGYGGVIQ	6.35E-19	VPMVL A GG T ED K	1.46E-13	RA E HAGIAF N L R	4.96E-10
<i>Claviceps pusilla</i>	KAG5989301.1	TQGT V ATEY K D L I P T	3.22E-19	PPN A HVIDYLPY	2.75E-13	SNAGYGGFLQ	4.72E-17	VPMVL A GET EDK	1.75E-14	RG E YAG V AIN L R	3.58E-12
<i>Claviceps sorghi</i>	KAG5949601.1	TQGT V AV K YQD L L I P T	1.12E-16	PPN A HVIDYLPY	2.75E-13	SNAGYGGFIQ	2.97E-19	VPMVL A G T TE D K	6.91E-14	RG A Y S CI A IN L K	1.75E-11
<i>Claviceps spartinae</i>	KAG5994791.1	TQGT V AVEY R H L LIPA	3.40E-16	PPN T HVIDYLPY	6.04E-13	MNAGYGGVIQ	6.35E-19	VPMVL A GG T ED K	1.46E-13	RA E HAGIAVN L R	7.72E-11
<i>Metarhizium acridum</i>	KAG8422976.1	NF		PPN A RVIDYLPY	4.76E-15	MNAGYGGFIQ	7.68E-20	VPMILAG S ED K	4.95E-13	RG E YAG V AVN L K	4.13E-12
<i>Metarhizium album</i>	XP_040683175.1	TQGT L AT D PT S LI P S	4.47E-19	NF		TNGGYGS I K Q	1.67E-18	V P LLCAG Q SE D K	1.14E-12	RV A Y S RL G ID L K	7.76E-10
<i>Metarhizium anisopliae</i>	KJK80520.1	SQGT I AVD Y A H LLIPA	1.12E-16	PPN A R V V D YLPY	2.50E-14	MNAGYGGFIQ	2.97E-19	VPMVL A GG S ED K	4.95E-13	RG E Y S GVAVN L R	9.34E-12
<i>Metarhizium brunneum</i>	XP_014548452.1	SQGT I AVD Y AD L LIPA	1.24E-17	PPN A RVIDYLPY	4.76E-15	MNAGYGGFIQ	2.97E-19	VPMVL A GG S ED K	4.95E-13	RG E Y S GVAVN L R	9.34E-12

<i>Metarhizium guizhouense</i>	KID92007.1	SQGTIAVDYADLLIPA	1.24E-17	PPNARVIDYLPY	4.76E-15	MNAGYGGFIQ	5.77E-20	VPMVLAGGSEDK	4.95E-13	RGEYSGVAVNLR	9.34E-12
<i>Metarhizium humberi</i>	KAH0597174.1	SQGTIAVDYADLLIPA	2.67E-17	PPNARVVDYLPY	2.50E-14	MNAGYGGFIQ	2.97E-19	VPMVLAGGSEDK	4.95E-13	RGEYSGVAVNLR	9.34E-12
<i>Metarhizium rileyi</i>	OAA43280.1	SQGTVSTNWDELIVPT	7.92E-17	PANARVADYLPY	2.50E-14	SNAGYGAFGH	1.24E-17	VPAIFAGETEEK	4.89E-10	RAEWAGFAYNLR	6.23E-11
<i>Metarhizium robertsii</i>	XP_007822448.1	SQGTIAVDYADLLIPA	2.67E-17	PPNARVIDYLPY	4.76E-15	MNAGYGGFIQ	2.97E-19	VPMVLAGGSEDK	4.95E-13	RGEYSGVAVNLR	9.34E-12
<i>Ustilaginoidea virens</i>	XP_042995238.1	TQGTFAVDYAHLLMPA	9.65E-16	PPNARVADFLPY	1.19E-13	TNAGYGGFIH	1.06E-20	VPMVLAGDTEDK	3.11E-14	RGEYAGIAVNLR	8.16E-12
<i>Conoideocrella luteorostrata</i>	KAK2616729.1	TQGTVMNMYTHLIPT	2.53E-21	PPNAHVIDYLPY	2.75E-13	MNAGYGGFIQ	5.77E-20	VPMVLAGSTEDK	7.60E-13	RGEYSGVAINLR	5.45E-12
<i>Moelleriella libera</i>	KZZ90826.1	TQGTVAVDYSQLVIPA	3.19E-18	APNAHVADYLSY	6.12E-11	MNAGYGGFVH	1.32E-18	VPMVLAGASEEK	2.83E-11	RGEYAGIGINLR	1.97E-12
<i>Epichloe festucae</i>	QPH11511.1	CQGTVMAMDFNQLVIPT	3.22E-19	PSNCRVVDYIPY	4.15E-13	TTGGYGSILQR	2.06E-15	TPLVMAGTTEEK	2.90E-10	RAEWAGVAVNLR	8.67E-13
<i>Trichoderma arundinaceum</i>	RFU78995.1	TQGTLAMDP TSLIMPA	1.54E-18	IANIRYADWLPY	5.47E-9	TNGGYGSITQ	2.02E-20	VPLLCAGQTEDK	3.69E-13	RVRWCGVGIDLK	3.58E-12
<i>Trichoderma asperelloides</i>	KAH8127233.1	TQGTLAMDP TSLIIPS	9.69E-20	AVNVCYADWLPY	3.91E-9	TNGGYGSITQ	2.75E-20	VPLLCAGQTEDK	3.69E-13	RVAWCGAGIDLK	8.67E-13
<i>Trichoderma asperellum</i>	UKZ86906.1	TQGTLAMDP TSLIIPS	9.69E-20	AVNVCYADWLPY	3.91E-9	TNGGYGSITQ	2.75E-20	VPLLCAGQTEDK	3.69E-13	RVTWCGAGIDLK	3.08E-12
<i>Trichoderma atroviride</i>	UKZ67550.1	TQGTLAMDP TSLITPS	4.37E-17	TDNVRYADWLPY	2.98E-10	TNGGYGSITQ	2.75E-20	VPLLCAGQTEDK	3.69E-13	RVAWCGAGIDLK	8.67E-13
<i>Trichoderma breve</i>	XP_056030790.1	TQGTLATDP TSLIIPS	4.47E-19	SANVRYADWLPY	4.35E-11	TNGGYGSITQ	2.75E-20	VPLLCAGQSEDK	1.14E-12	RVTWCGAGIDLR	4.74E-12
<i>Trichoderma citrinoviride</i>	XP_024752346.1	TQGTLAMNPTSLIIPS	1.16E-19	ASNVRYADWLPY	3.44E-11	TNGGYGSITQ	2.75E-20	VPLLCAGQTEDK	3.69E-13	RITWCGAGIDLK	1.37E-11
<i>Trichoderma cornu-damae</i>	KAH6605774.1	TQGTLAMDPISLIIPS	3.42E-17	AANVRYANWLPY	7.85E-10	TNGGYGSITQ	2.75E-20	VPLLCAGQTEDK	3.69E-13	RVAWCGAGIDLK	8.67E-13
<i>Trichoderma gracile</i>	KAH0492740.1	TQGTLAMNPTSLIIPS	1.16E-19	ASNVRYADWLPY	3.44E-11	TNGGYGSITQ	1.32E-18	VPLLCAGQTEDK	3.69E-13	RITWCGVGIDLK	7.14E-12
<i>Trichoderma guizhouense</i>	OPB36448.1	TQGTLATDP TSLIIPS	4.47E-19	SANVRYADWLPY	4.35E-11	TNGGYGSITQ	1.02E-19	VPLLCAGQSEDK	1.14E-12	RVTWCGAGIDLR	4.74E-12
<i>Trichoderma harzianum</i>	KKO97596.1	TQGTLATDP TSLIIPS	4.47E-19	SVNVRYANWLPY	4.25E-9	TNGGYGSITQ	2.75E-20	VPLLCAGQSEDK	1.14E-12	RVTWCGAGIDLR	4.74E-12
<i>Trichoderma longibrachiatum</i>	PTB77621.1	TQGTLAMNPTSLIIPS	1.16E-19	ASNVRYADWLPY	3.44E-11	TNGGYGSITQ	2.75E-20	VPLLCAGQTEDK	3.69E-13	RVSWCGAGIDLR	1.44E-12
<i>Trichoderma reesei</i>	XP_006968899.1	TQGTLAMNPTSLIIPS	1.16E-19	APNVRYADWLPY	4.35E-11	TNGGYGSITQ	2.75E-20	VPLLCAGQTEDK	3.69E-13	RITWCGAGIDLK	1.37E-11
<i>Trichoderma semiorbis</i>	KAH0529301.1	TQGTLATDP TSLIIPS	4.47E-19	SANVRYAGWLPY	1.14E-9	TNGGYGSITQ	2.75E-20	VPLLCAGQSEDK	1.14E-12	RVTWCGAGIDLR	4.74E-12
<i>Trichoderma simmonsii</i>	QYS95815.1	TQGTLATDP TSLIIPS	4.47E-19	SANVRYADWLPY	4.35E-11	TNGGYGSITQ	1.02E-19	VPLLCAGQSEDK	1.14E-12	RVTWCGAGIDLR	4.74E-12
<i>Trichoderma virens</i>	XP_013957984.1	TQGTLAMNPTSLIIPS	1.16E-19	ADNVRYADWLPY	1.18E-10	TNGGYGSITQ	2.75E-20	VPLVCAGQSEDK	5.68E-14	RVTWCGAGIDLR	4.74E-12
<i>Escovopsis weberi</i>	KOS17718.1	NF		NF		TNAGYQPMLQ	9.77E-13	NF		NF	
<i>Cordyceps fumosorosea</i>	XP_018701796.1	SQGTVAVHYDQLLVPT	3.78E-16	PSNCHVVDYLSY	5.89E-12	VNAGYGGFMH	2.97E-19	VPMVLAGASEDK	2.49E-12	RAEFAGVGINLR	1.55E-11
<i>Cordyceps javanica</i>	TQV95450.1	SQGTVAMRYDHLIPT	1.09E-17	PSNAHVVDYLSY	1.01E-12	LNAGYGGFIH	7.19E-19	IPMVLAGGSEDK	5.75E-12	RGEFAGVGVNLR	1.20E-11
<i>Cordyceps militaris</i>	XP_006674754.1	SQGTVAQRYDQLLIPA	1.30E-15	PSNAHVVDYLSY	1.01E-12	MNAGYGGFMH	6.74E-22	VPMVLAGGTEDK	1.46E-13	RGEFAGVGINLR	7.14E-12

<i>Akanthomyces lecanii</i>	OAA70212.1	SQGTVAVRYDQLLIPA	2.45E-16	PSNAHVVDYLSY	1.01E-12	LNAGYGGFIH	6.66E-20	VPMVLAGGSEDK	4.95E-13	RGEFAGVGINLR	7.14E-12
<i>Akanthomyces muscarius</i>	XP_056054863.1	SQGTVAVRYDQLLIPA	2.45E-16	PSNTHVVDYLSY	1.92E-12	LNAGYGGFIH	6.66E-20	VPMVLAGGSEDK	4.95E-13	RGEFAGVGINLR	7.14E-12
<i>Beauveria bassiana</i>	XP_008602005.1	SQGTVAVRYDQLLIPA	1.59E-15	PSNAYTVDYLSY	6.84E-11	LNAGYGGFMIH	1.72E-20	VPMVLAGGSEDK	4.95E-13	RGEFAGVGINLR	7.14E-12
<i>Beauveria brongniartii</i>	OAA39919.1	SQGTVAVRYDQLVIPA	1.44E-15	PSNAYTVDYLSY	6.84E-11	LNAGYGGFMIH	1.72E-20	VPMVLAGGSEDK	4.95E-13	RGEFAGVGINLR	7.14E-12
<i>Lecanicillium saksenae</i>	KAJ3497866.1	SQGTVAVDYSQLLIPT	9.80E-19	PSNAHVIDYLSY	6.04E-13	VNAGYGGFMIH	5.61E-19	VPMVLAGGSEDK	4.95E-13	RGEFAGVAINLR	1.55E-11
<i>Niveomyces insectorum</i>	OAA57048.1	AQGTIATSYDELILPT	3.40E-16	PSNVRVLDYFPY	6.73E-12	TNGGYGSCTH	2.97E-19	VPMVVGGITEDK	3.24E-12	RAEYAGLAVNLR	1.17E-10
<i>Purpureocillium lavendulum</i>	KAJ6441125.1	TQGTLAMDPSTLIVPA	1.14E-18	PSNVHFATWMPY	4.01E-10	TNGGYGSITQ	1.02E-19	VPLLCAGQSEDK	1.14E-12	RVVWTGVGVDLK	1.75E-11
<i>Purpureocillium lilacinum</i>	XP_018181559.1	TQGTLAMDPSTLILPT	2.15E-20	PSNVRYATWMPY	1.31E-10	TNGGYGSITQ	1.02E-19	VPLLCAGQSEDK	1.14E-12	RVVWAGVGIDLK	2.31E-12
<i>Purpureocillium takamizusanense</i>	XP_047841106.1	TQGTLAMDPSTLILPA	2.31E-19	PDNVRFATWMPY	3.64E-10	TNGGYGSITQ	1.02E-19	VPLLCAGQSEDK	1.14E-12	RVVWAGVGIDLK	2.31E-12
<i>Hirsutella minnesotensis</i>	KJZ71824.1	CQGTVNLDWRELVIPT	8.90E-17	PSNARVIDYLPY	9.29E-16	SNGGYGGLOH	5.53E-16	NF		RGAWAGFAVNLR	2.24E-11
<i>Hirsutella rhossiliensis</i>	XP_044720357.1	SQGTVNKNWNELVLPT	3.13E-15	PANARVIDYLPY	9.57E-15	SNAGYGAFRH	1.46E-15	VATVFAGETEDK	1.22E-10	RGEWAGFAHNLR	1.98E-11
<i>Tolypocladium ophioglossoides</i>	KND93039.1	TQGTLAMDPSTLIIPS	4.47E-19	PSNVRLAEWLFPY	2.98E-10	TNGGYGSITQ	1.02E-19	VPLLCAGQSEDK	1.14E-12	RVVWAGVGIDLK	2.31E-12
<i>Tolypocladium paradoxum</i>	POR35566.1	TQGTLAMDPSTLIVPS	6.39E-18	PSNVRLAEWLFPY	2.98E-10	TNGGYGSITQ	1.02E-19	VPLLCAGQSEDK	1.14E-12	RVVWAGVGIDLK	2.31E-12
<i>Ophiocordyceps sinensis</i>	EQK98407.1	SQGTVNMDWDELVLPT	8.90E-17	PANARVVDYLPY	3.84E-14	SNAGYGAFRH	2.99E-14	VATVFAGETEEK	5.12E-10	RGEWAGFALNLR	7.72E-11
<i>Clonostachys byssicola</i>	CAG9995431.1	TQGTVVLDYHNLVIPT	6.26E-17	PANARVVDYFPY	2.26E-13	MNAGYGGFIH	4.54E-21	VPMVLGGGTEDK	5.67E-13	RGEFAGVAVNLR	2.52E-11
<i>Clonostachys chloroleuca</i>	CAI6093753.1	TQGTVVLDYRNLVIPT	1.41E-16	PSNARVVDYFPY	1.19E-13	MNAGYGGFIH	4.54E-21	VPMVLGGGTEDK	5.67E-13	RGEFAGVAVNLR	2.52E-11
<i>Clonostachys rhizophaga</i>	CAH0019948.1	TQGTVVLDYRNLVIPT	1.41E-16	PSNARVVDYFPY	1.19E-13	MNAGYGGFIH	4.54E-21	VPMVLGGGTEDK	5.67E-13	RGEFAGVAVNLR	2.52E-11
<i>Clonostachys rosea</i>	CAG9952845.1	TQGTVALDYSNLVIPT	4.23E-18	PSNARVVDYFPY	1.19E-13	MNAGYGGFID	4.17E-18	VPMVLGGGTADK	1.72E-11	RGEYAGVAVNLR	6.27E-12
<i>Clonostachys solani</i>	CAH0038538.1	TQGTVVLDYSNLVIPT	7.92E-17	PSNARVVDYFPY	1.19E-13	MNAGYGGFIH	4.54E-21	VPMVLGGGTEDK	5.67E-13	RGEFAGVAVNLR	3.18E-11
<i>Emericellopsis atlantica</i>	XP_046121130.1	TQGTVALEYGHLIMPT	1.94E-15	PGNARVIDVLNY	4.43E-10	FNAGFGGLTH	4.21E-16	VPMVFAGDTEDEK	5.67E-13	RGEWAGVGINLR	3.28E-15
<i>Hapsidospora chrysogena</i>	KFH48365.1	TQGTLAMNPSTLIVPS	2.07E-18	NF		TNGGYGSITQ	2.75E-20	VPLLCAGQTEDEK	3.69E-13	RVSWAGAGIDLA	3.18E-11
<i>Stachybotrys chartarum</i>	KFA76153.1	TQGTLATDPSTLILPA	2.39E-18	PRNAHFATFLPY	7.15E-10	TNGGYGSITQ	1.34E-19	VPLLCAGQTEDEK	3.69E-13	RVAWCGAGIDLK	8.67E-13
<i>Stachybotrys chlorohalonata</i>	KFA67805.1	TQGTLATDPSTLILPA	2.39E-18	PRNAHFATFLPY	7.15E-10	TNGGYGSITQ	1.34E-19	VPLLCAGQTEDEK	3.69E-13	RVAWCGAGIDLK	8.67E-13
<i>Stachybotrys elegans</i>	KAH7322735.1	TQGTLAMDPNDLVIPA	4.47E-19	FNNLRFAKWLPY	7.61E-9	TNGGYGSITQ	1.34E-19	VPLLCAGQTEDEK	3.69E-13	RVAWCQAGIDLK	7.72E-11
<i>Trichothecium roseum</i>	KAI9901541.1	TQGTVAVDYKELVVPT	2.20E-16	PDNTRVIDHLSY	6.84E-11	CNNGYGGFIH	1.17E-19	VPMIMGGESEDK	1.50E-12	RGEWAGIAVNLR	2.10E-13
<i>Aphanocladium album</i>	KAJ6789860.1	SQGTVAVDYSHLLIPT	1.33E-18	PSNAHVVDYLSY	1.01E-12	ANAGYGGFMIH	1.53E-19	VPMVLAGGSEDK	4.95E-13	RGEFAGVAINLR	1.55E-11

<i>Colletotrichum abscissum</i>	KAI3530008.1	SQGTVNMDYSELVLPT	1.14E-18	PSNARVVDYMPY	2.75E-13	SNGGYGALTH	2.97E-18	VFIVLAGSEEEK	1.01E-10	RAVYAGLGVSLS	2.70E-8
<i>Colletotrichum acutatum</i>	KAK1724125.1	TQGTYATNAANLITPT	1.04E-14	PSNARVANFIPH	1.18E-10	TNAGYNGALTH	9.01E-11	VPLVCAGRSEDK	1.50E-12	RVAWSGAGIDLA	4.48E-11
<i>Colletotrichum aenigma</i>	XP_037184972.1	CQGTVMADLTQLVIPT	1.42E-17	PPNCRVTDYVPY	1.89E-11	TTGGYGAFQR	3.20E-16	NF		RAAWAGVGVDLR	4.74E-12
<i>Colletotrichum asianum</i>	KAF0316378.1	SQGTLNPLWSELIIFA	1.48E-14	PANARVIDYVPH	1.30E-11	SNAGYGTLTH	3.73E-18	VPVLLAGENEK	8.67E-10	RAVYAGVGLSLG	8.97E-9
<i>Colletotrichum camelliae</i>	KAH0442418.1	AQGTIATDYTDLIPT	6.19E-21	PANTRVADFLSY	1.01E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGEWTGVAHNLK	4.74E-12
<i>Colletotrichum caudatum</i>	KAK2059483.1	TQGTVAMEYGNLVIPT	1.54E-18	PPNTRVADFLPY	2.75E-13	TNAGYGGFTH	2.27E-22	VPMVLGGDTEDK	1.65E-13	RGQWAGVAYNLK	2.31E-12
<i>Colletotrichum cereale</i>	KAK1986054.1	TQGTVAMEYTNLVIPT	6.74E-20	PANARVVDFVPY	2.22E-12	TNAGYGGFAH	1.17E-19	VPMVLGGDTEDK	1.65E-13	RGQWAGVAYNLK	2.31E-12
<i>Colletotrichum chlorophyti</i>	OLN96240.1	SQGTVTHDYSELVLPT	5.20E-16	PPNARVINYPY	2.14E-11	SNGGYGALMH	3.49E-17	VPTILAGESQEK	3.63E-10	RAVYAGLGVSLA	1.63E-8
<i>Colletotrichum chrysophilum</i>	XP_053034241.1	NF		PANARIIDYLPY	2.75E-13	SNAGYGTLTH	3.73E-18	VPVLLAGENEK	8.67E-10	RAVYAGVGLSLG	8.97E-9
<i>Colletotrichum eremochloae</i>	KAK2005828.1	SQGTVNSNYNDLVLPT	2.36E-17	PPNARVLDYMPY	8.83E-12	SNAGYGALTH	4.66E-18	VPVVLAGESQEK	9.28E-11	RAVYAGLGVSLA	1.63E-8
<i>Colletotrichum falcatum</i>	KAK1994865.1	SQGTVSSDHTELLPT	1.44E-15	PPNVRVLDYLPY	3.42E-12	SNGGYGALTH	2.36E-18	VPVVLAGESQEK	9.28E-11	RAVYAGLGVSLG	7.70E-9
<i>Colletotrichum filicis</i>	KAI3528431.1	SQGTVNMDYSELVLPT	1.14E-18	PSNARFVDYMPY	1.19E-12	SNGGYGALTH	2.97E-18	VFIVLAGSEEEK	1.01E-10	RAVYAGLGVSLS	2.70E-8
<i>Colletotrichum fiorinae</i>	KAJ0331578.1	AQGTIAINYTDLIPT	2.15E-20	PANTKVIDFLSY	5.16E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGQWTGVAVNLK	2.67E-12
<i>Colletotrichum fructicola</i>	XP_031878303.1	SQGTLNPLWSELIIFA	1.48E-14	PANARIIDYLPY	2.75E-13	SNAGYGTLTH	3.73E-18	VPVLLAGENEK	8.67E-10	RAVYAGVGLSLG	8.97E-9
<i>Colletotrichum gloeosporioides</i>	KAH9225977.1	SQGTLNPLWSELIIFA	1.48E-14	PANARIIDYLPY	2.75E-13	SNAGYGTLTH	3.73E-18	VPVLLAGENEK	8.67E-10	RAVYAGVGLSLG	2.34E-8
<i>Colletotrichum godetiae</i>	KAK1657259.1	TQGTYATNSSNLITPT	6.02E-15	PSNARVASFIPH	2.44E-10	TNAGYNGVLA	1.67E-16	VPMICAGRSEDK	4.21E-13	RVAWSGAGIDLA	4.48E-11
<i>Colletotrichum graminicola</i>	XP_008100482.1	TQGTYATNAANLISPT	1.13E-14	PENARVADFVPH	1.46E-10	TNAGYNGVLA	1.67E-16	VPMVCAGRTEDK	2.55E-14	RVAWSGAGIDLG	1.37E-11
<i>Colletotrichum higginsianum</i>	GJC91227.1	TQGTIALDYNLVIPT	9.80E-19	PANARVVDFISY	7.19E-13	MNAGYGGFMH	2.65E-21	VPMVLGGDTEDK	1.65E-13	RGQWAGVAHNLK	1.97E-12
<i>Colletotrichum incanum</i>	OHW97533.1	TQGTIALDYNLVIPT	3.85E-20	PANTRVVDFISY	1.41E-12	MNAGYGGFMH	2.65E-21	VPMVLGGDTEDK	1.65E-13	RGQWAGVAYNLK	2.31E-12
<i>Colletotrichum karsti</i>	XP_038743776.1	AQGTIATDYNLVIPT	8.40E-19	PANTRVADFLSY	1.01E-12	MNAGYGGFLH	5.41E-21	VPMVLGGDTEDK	1.65E-13	RGEYVGVAYNLK	4.52E-10
<i>Colletotrichum limetticola</i>	KAK0371775.1	AQGTIAINYTDLIPT	2.15E-20	PANTKVVDFLSY	7.71E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGQWTGVAVNLK	2.67E-12
<i>Colletotrichum liriopes</i>	GJC77217.1	TQGTIALDYNLVIPT	3.85E-20	PANTRVVDFISY	1.41E-12	MNAGYGGFMH	8.30E-22	VPMVLGGDTEDK	1.65E-13	RGQWAGVAYNLQ	2.83E-11
<i>Colletotrichum lupini</i>	KAK1705670.1	AQGTIAINYTDLIPT	2.15E-20	PANTKVVDFLSY	7.71E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGQWTGVAVNLK	2.67E-12
<i>Colletotrichum musicola</i>	KAF6838802.1	TQGTVATNYNDLIPT	2.53E-21	PANTKVVDYFSY	8.83E-12	MNAGYGGFLH	5.41E-21	VPMVLGGDTEDK	1.65E-13	RAQWAGVAHNLK	4.74E-12
<i>Colletotrichum navitas</i>	KAK1573862.1	SQGTVASDYTELALPT	3.05E-16	PPNVRVLDYMPY	1.47E-11	SNGGYGALTH	2.36E-18	VPVVLAGESQEK	9.28E-11	RAVYAGIGVSLA	4.47E-9
<i>Colletotrichum noveboracense</i>	KAJ0277668.1	AQGTIATDYNLIIPT	6.19E-21	PANTRVADFLSY	1.01E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGEWTGVAHNLK	4.74E-12
<i>Colletotrichum nupharicola</i>	KAJ0337848.1	AQGTIATDYNLIIPT	6.19E-21	PANTRVADFLSY	1.01E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGEWTGVAHNLK	4.74E-12

<i>Colletotrichum nymphaeae</i>	KXH45981.1	AQGTIAINYTDLIIPT	2.15E-20	PANTKVIDFLSY	5.16E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGQWTGVAVNLK	2.67E-12
<i>Colletotrichum orbiculare</i>	TDZ14673.1	GQGTVAMDYTDLVIPA	9.56E-18	PANTRVVDYLHY	2.96E-12	MNAGYGGFIH	2.65E-21	VPMVLGGDSEDK	5.67E-13	RGEWAGVAHNLK	8.67E-13
<i>Colletotrichum orchidophilum</i>	XP_022475743.1	AQGTIATDYTDLIIPT	6.19E-21	PANTKVIDFLSY	5.16E-12	LNAGYGGYLH	1.48E-18	VPMVLGGDTEDK	1.65E-13	RGQWSGVAYNLK	3.58E-12
<i>Colletotrichum paranaense</i>	KAK1540822.1	AQGTIAINYTDLIIPT	2.15E-20	PANTKVVDFLSY	7.71E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGQWTGVAVNLK	2.67E-12
<i>Colletotrichum phormii</i>	KAK1635646.1	TQGTIATGYTDLIIPT	2.07E-18	PANTKVIDFLSY	5.16E-12	MNAGYGGFLH	7.63E-21	VPMVLGGDTEDK	1.65E-13	RGQWAGIAFNLK	1.06E-11
<i>Colletotrichum plurivorum</i>	KAF6829629.1	TQGTVATNYNDLIIPT	2.53E-21	PANTKVVDYFSY	8.83E-12	MNAGYGGFLH	5.41E-21	VPMVLGGDTEDK	1.65E-13	RAQWAGVAHNLK	4.74E-12
<i>Colletotrichum salicis</i>	KXH39943.1	AQGTIATDYTDLIIPT	6.19E-21	PANTKVVDFLSY	7.71E-12	LNAGYGGFLH	1.17E-19	VPMVLGGDTEDK	1.65E-13	RGQWTGIAFNLK	4.00E-11
<i>Colletotrichum scovillei</i>	XP_035327966.1	AQGTIAIDYTDLIIPT	1.76E-20	PANTKVIDFLSY	5.16E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGQWTGVAVNLK	2.67E-12
<i>Colletotrichum shioi</i>	TQN67810.1	TQGTIALDYTNLVIPA	9.80E-19	PANARVVDYFISY	7.19E-13	MNAGYGGFMH	2.65E-21	VPMVLGGDTEDK	1.65E-13	RGQWAGVAHNLK	1.97E-12
<i>Colletotrichum siamense</i>	KAF4814982.1	AQGTVATDYTDLIIPT	1.57E-21	PANTRVADFLSY	1.01E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGEWTGVAHNLK	4.74E-12
<i>Colletotrichum sidae</i>	TEA21432.1	GQGTVAMDYTDLVIPA	9.56E-18	PANTRVVDYLHY	2.96E-12	MNAGYGGFIH	2.65E-21	VPMVLGGDSEDK	5.67E-13	RGEWAGVAHNLK	8.67E-13
<i>Colletotrichum simmondsii</i>	KXH40793.1	SQGTVNMDYSELVLPT	1.14E-18	PSNARVVDYMPY	2.75E-13	SNGGYGALTH	2.97E-18	VFIVLAGESEEK	1.01E-10	RAVYAGLGVSLS	2.70E-8
<i>Colletotrichum sojae</i>	KAF6806549.1	TQGTVATNYNDLIIPT	2.53E-21	PANTKVVDYFSY	8.83E-12	MNAGYGGFLH	5.41E-21	VPMVLGGDTEDK	1.65E-13	RAQWAGVAHNLK	4.74E-12
<i>Colletotrichum somersetense</i>	KAK2043394.1	TQGTVVMYGNLVIPT	3.87E-17	PQNTRVVDFLPY	3.93E-12	TNAGYGGFTH	2.27E-22	VPMVLGGDTEDK	1.65E-13	RGQWAGVAYNLK	2.31E-12
<i>Colletotrichum sublineola</i>	KDN67295.1	AQGTEVLDRHRELIPT	4.16E-15	PSNARVVDYFPY	1.19E-13	SNSGYGGFQH	7.68E-20	VPMVQAGNVFDK	3.09E-9	RIEWSGLGYMV	7.11E-8
<i>Colletotrichum tamarilloi</i>	KAK1490332.1	SQGTVNMDYSELVLPT	1.14E-18	PSNARVVDYMPY	2.75E-13	SNGGYGALTH	2.97E-18	VFIVLAGESEEK	1.01E-10	RAVYAGLGVSLS	2.70E-8
<i>Colletotrichum tanacetii</i>	KAJ0162061.1	AQGTEVLDRHRELIPT	3.78E-15	PANARVVDYFPY	2.26E-13	SNSGYGGFQH	5.61E-19	NF		RIEWCGLGVYLE	3.52E-9
<i>Colletotrichum tofieldiae</i>	KZL66573.1	TQGTIALDYTDLVIPT	3.85E-20	PANTRVVDYFISY	1.41E-12	MNAGYGGFMH	8.30E-22	VPMVLGGDTEDK	1.65E-13	RGQWAGVAYNLQ	2.83E-11
<i>Colletotrichum trifolii</i>	TDZ54034.1	SQGTLPNPNTDLILPS	4.93E-17	PSNARVVDYIPY	1.62E-14	SNAGYGTFTH	2.61E-19	VPVVLAGENEEK	2.12E-10	RAIYAGIGLSLE	1.06E-17
<i>Colletotrichum tropicale</i>	KAJ3960792.1	AQGTVATDYTDLIIPT	1.57E-21	PANTRVADFLSY	1.01E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGEWTGVAHNLK	4.74E-12
<i>Colletotrichum truncatum</i>	XP_036576291.1	TQGTVAVDYKDLIIPT	1.17E-20	PANARIIDYLPY	2.75E-13	LNAGYGGFLH	6.66E-20	VPMVLGGDTEDK	1.65E-13	RGEWAGVAYNLR	1.68E-12
<i>Colletotrichum viniferum</i>	KAF4925869.1	AQGTVATDYTDLIIPT	1.57E-21	PANTRVADFLSY	1.01E-12	LNAGYGGFLH	8.84E-20	VPMVLGGDTEDK	1.65E-13	RGEWTGVAHNLK	4.74E-12
<i>Colletotrichum zoyisiae</i>	KAK2035655.1	TQGTIVMEYGNLVIPT	7.92E-17	PQNTRVVDFLPY	3.93E-12	TNAGYGGFTH	2.27E-22	VPMVLGGDTEDK	1.65E-13	RGQWAGVAYNLK	2.31E-12
<i>Sodiomyces alkalinus</i>	XP_028465600.1	SQGTVATEYVNLIPA	2.13E-15	PANTRVVDYFSY	1.41E-12	MNAGWGGFQQ	1.32E-18	VPMVLAGNTEDK	8.58E-13	RAAYSGVAIDLK	6.23E-11
<i>Daldinia bambusicola</i>	KAI1805383.1	AQGTVEINPRDLIVPT	8.90E-17	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Daldinia caldariorum</i>	XP_047785741.1	AQGTVEINPRDLIVPT	8.90E-17	PPNARIADYVSY	7.71E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Daldinia childiae</i>	XP_033438607.1	AQGTVEINPYDLIVPT	1.26E-16	PVNARIANYLSY	3.64E-10	HNAGFGAVNH	4.36E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGIDLG	9.34E-12

<i>Daldinia decipiens</i>	XP_049095979.1	AQGTVEINPYDLIVPT	1.41E-16	PPNVRIADYISY	2.22E-12	HNGGFGAVNH	1.53E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Daldinia eschscholtzii</i>	KAI1475320.1	AQGTVEINPYDLIVPT	4.37E-17	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Daldinia grandis</i>	KAI0095932.1	AQGTVETNPYDLIVPT	6.26E-17	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	5.76E-17	VSMVVAGEGMDK	9.28E-11	RVAWSGIGLDLG	1.58E-10
<i>Daldinia loculata</i>	KAI2777984.1	AQGTIEINPYDLIVPT	2.45E-16	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Daldinia vernicosa</i>	XP_047863139.1	AQGTVEINPYDLIVPT	1.26E-16	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Annulohypoxyylon bovei</i>	KAI2463407.1	AQGTVEIDPHDLIPT	8.40E-19	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLR	3.58E-12
<i>Annulohypoxyylon moriforme</i>	KAI1454171.1	AQGTVEINPHDLIPT	9.80E-19	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Annulohypoxyylon nitens</i>	KAI0896334.1	AQGTVEINPHDLIPT	1.14E-18	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Annulohypoxyylon stygium</i>	KAI1445084.1	AQGTVEINPHDLIPT	1.14E-18	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Annulohypoxyylon truncatum</i>	XP_047849137.1	AQGTVEINPHDLIPT	3.67E-18	PANARIADYLSY	1.19E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Hypoxyylon cercidicola</i>	KAI1774420.1	AQGTVEINPHDLIPT	9.80E-19	PSNARIADYLSY	7.19E-13	HNAGFGAVNH	4.36E-19	VPMVVAGEGMDK	7.60E-13	RVEWSGIGIDLG	2.31E-12
<i>Hypoxyylon crocopezulum</i>	KAI1377137.1	AQGTVEINPHDLIPT	9.80E-19	PSNARVADYLSY	6.82E-14	HNAGFGAVNH	4.36E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGVGVLDL	6.23E-11
<i>Hypoxyylon fragiforme</i>	XP_049117066.1	AQGTVEINPHDLLIPT	8.37E-18	PGNSRVADYLN	4.01E-10	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLQ	2.83E-11
<i>Hypoxyylon fuscum</i>	KAI1399455.1	AQGTVETNPEDLILPT	7.87E-16	PANARVADYLSY	1.49E-13	HNGGFGAVGH	5.21E-18	VPMVVAGEGMDK	7.60E-13	RVAWAGVGVDLG	8.16E-12
<i>Hypoxyylon rubiginosum</i>	KAI4864951.1	AQGTVEINPHDLIPT	3.67E-18	PGNARIADYLSY	7.71E-12	HNAGFGAVNH	4.36E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Hypomontagnella monticulosa</i>	KAI0378476.1	AQGTVEINPHDLIPT	3.67E-18	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	4.36E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Hypomontagnella submonticulosa</i>	KAI2620953.1	AQGTVEINPHDLIPT	3.67E-18	PTNARIADYLSY	1.67E-11	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Jackrogersella minutella</i>	KAI1099809.1	AQGTVEINPHDLIPT	3.67E-18	PPNARVADYLSY	1.19E-13	HNAGFGAVSH	3.33E-18	VPMVAAGEGMDK	7.26E-12	RIAWAGIGVDLE	1.75E-10
<i>Rostrohypoxyylon terebratum</i>	KAI1090772.1	AQGTVEINPYDLIPT	1.42E-17	PPNARIADYLSY	1.01E-12	HNAGFGAVNH	2.85E-17	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Biscogniauxia marginata</i>	KAI1498195.1	CQGTVATDLNQLVYPT	1.30E-15	PSNCKVEDYIPY	8.83E-12	TTGGYGAFQR	5.05E-16	NF		RAEWAGVAVNLR	8.67E-13
<i>Biscogniauxia mediterranea</i>	KAI1491404.1	AQGTVETNPDLIPT	4.47E-19	PPNAYIAPYLSY	7.15E-10	HNGGFGAVSH	1.87E-18	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLR	3.58E-12
<i>Durotheca rogersii</i>	XP_051373960.1	AQGTVEINPHDLIPT	9.80E-19	PPNTRIADYLSY	1.92E-12	HNAGFGAVNH	3.38E-19	VPMVAAGEGMDK	7.26E-12	RIAWSGIGIDLC	1.43E-10
<i>Whalleya microplaca</i>	KAI1080707.1	AQGTVETNPRDLIPT	1.14E-18	PGNARVADYLSY	1.65E-12	HNAGFGAVNH	3.38E-19	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11
<i>Microdochium bolleyi</i>	KXJ92914.1	SQGTVEINPLDLIPT	8.66E-15	PSNARIADFLNY	1.89E-11	HNAGFGAVCH	1.17E-18	VPMVCAGEGMDK	1.90E-14	RVAWAGTGVDLQ	4.12E-10
<i>Microdochium nivale</i>	KAJ1329274.1	SQGTVETNPLDLIPT	5.01E-15	PSNARIADFLNY	1.89E-11	HNAGFGAVCH	1.17E-18	VPMVCAGEGMDK	1.90E-14	RVAWAGVGVDLQ	1.55E-11
<i>Microdochium trichocladiopsis</i>	XP_046013910.1	AQGTVEINPHDLIPT	1.41E-16	PGNARVADFLNY	3.44E-11	HNAGFGALCH	4.17E-18	VPMVCAGEGMDK	1.90E-14	RVAWAGAGVDVG	6.50E-10
<i>Monosporascus cannonballus</i>	RYO94743.1	CQGTVARDLQLVIPT	8.90E-17	PPNARVVYDIPY	3.84E-14	SNAGLGALNH	2.65E-15	VPLVLGITEDK	4.13E-12	NF	

<i>Monosporascus ibericus</i>	RYP11091.1	CQGTIAMDLNQLVIPT	1.09E-17	PPNARVADYIPY	2.50E-14	SNAGTGGLNH	1.23E-15	VPLVLAVGTEDK	3.68E-12	NF		
<i>Pestalotiopsis fici</i>	XP_007841187.1	AQGTVEVNPRLIPT	1.26E-16	PGNARIADYLSY	7.71E-12	HNAGFGAVNH	3.84E-19	VPMVVAGEGMDK	7.60E-13	RVTWSGIGVDLG	4.00E-11	
<i>Truncatella angustata</i>	KAH8199344.1	AQGTVEINPNDLIPT	1.09E-17	PDNVRVADYLLY	4.88E-11	HNAGFGAVNH	4.95E-19	VPMVAAGEGMDK	7.26E-12	RVAWSGIGVNLG	6.27E-12	
<i>Pseudomassariella vexata</i>	XP_040718474.1	AQGTVEINPNDLIPT	6.15E-19	PSNARIADYLSY	7.19E-13	HNAGFGAVNH	6.36E-17	VPMVVAGEGMDK	7.60E-13	RVAWSGIGVDLG	1.55E-11	
<i>Eutypa lata</i>	EMR68577.1	NF		PANARVADYLPY	2.50E-14	SNAGYGALCH	2.85E-17	VPLVLAGETEDK	3.69E-13	RATWAGYALGLW	2.15E-7	
<i>Cercophora newfieldiana</i>	KAK0638609.1	NF		PEGAKVMDYLPY	1.44E-18	FNGGYGGLMH	1.48E-18	TPMVIAGTAADK	3.29E-10	RAEWAGIAVNLR	1.21E-12	
<i>Cercophora samala</i>	KAK0667676.1	TQGTVHRAYDELIIPV	5.49E-15	PENVRMVDYFPY	7.65E-11	SNAGYGGFMH	1.17E-19	VPMVLAGLVADK	1.96E-10	RAERAGVAVNLA	2.35E-9	
<i>Lasiosphaeria miniovina</i>	KAK0706185.1	AQGTAMLDYSELIVPT	7.91E-15	PANTKVIDYLPY	8.52E-13	CNAGYGGFMH	1.24E-21	VPMVLAGTQADK	1.42E-10	RAEYVGVAVNLR	4.12E-10	
<i>Immersiella caudata</i>	KAK0624188.1	NF		PGNAMVVDHVPY	7.61E-10	FNGGYGGLMH	5.21E-18	VPMVIAGTAADK	3.63E-10	RAEWAGVAVNLR	8.67E-13	
<i>Apiosordaria backusii</i>	KAK0718985.1	SQGTVHRAYHELLIPT	3.78E-16	PKNVRIVDYFPY	5.89E-12	SNAGYGGFMH	2.84E-22	VPMVLAGLIADK	7.52E-10	RAARAGIAVNLA	6.11E-9	
<i>Collariella sp. IMI 366227</i>	KAJ4286560.1	TQGTGHIEYTALIIPT	3.44E-15	PENTIVVDYFPY	2.98E-10	SNGGYGGVMH	5.47E-22	VPMVLAGTETDK	4.54E-10	RAEWAGVAVNLR	8.67E-13	
<i>Thermothielavioides terrestris</i>	XP_003658264.1	TQGTAHCNYADLLIPT	2.13E-15	PANAIVVDYLPY	2.14E-11	SNAGYGGFMH	5.61E-19	GPMVLAGTAADK	3.09E-9	RGEYAGMAVNLR	1.58E-10	
<i>Staphylotrichum longicolle</i>	KAG7294653.1	SQGTVHRVYDDLVIPT	5.01E-15	PDNAIVVDYFPY	1.18E-10	CNAGYNGFIH	2.65E-18	NF		RAEWAGVAVNLR	8.67E-13	
<i>Thermochaetoides thermophila</i>	XP_006692471.1	SQGTLARDYSMLLAPT	1.59E-15	VGNVRVVDIFPY	4.88E-10	FNAGYGGFVH	2.66E-16	VPVIAAGLTEDK	5.66E-10	RVEWTGVGINLR	2.65E-13	
<i>Podospora anserina</i>	XP_001904848.1	SQGTLARDYTMLLAPT	5.77E-16	LGNVKVVDFLPY	3.64E-10	FNAGYGGFVH	2.21E-16	VPVVAAGLTEDK	3.13E-10	RVEWTGAGINLR	7.23E-13	
<i>Echria macrotheca</i>	KAK1751134.1	TQGTLSPIFTELLVPA	1.18E-13	PANTRVIDYLPY	5.10E-14	TNAGYNSFMH	5.61E-19	VFMLVAGKDADK	3.74E-9	RAEYCGVAVNLR	1.06E-11	
<i>Madurella mycetomatis</i>	KXX79238.1	SQGTVHLDYREMITTA	4.03E-13	PDNTKIIDYLPY	1.30E-11	SNAGYGGFMH	2.84E-22	VPMVLSGAVADK	7.01E-10	RGEWAGVAVNLR	2.65E-13	
<i>Diaporthe ampelina</i>	KKY35200.1	AQGTFANDFSLLIPT	1.07E-15	PPNARVADYLPY	1.62E-14	QSGSYGGFQH	1.73E-15	VPAVLGGDTEDK	2.58E-11	RAEWAGVGFNLK	4.13E-12	
<i>Diaporthe amygdali</i>	XP_052998701.1	AQGTVETDPNDLIPT	1.95E-19	SRNALVTDYLHY	1.14E-8	HNGGYGAITH	2.65E-21	VPMVVAGEGQDK	4.95E-13	RVRFSGIGVGLG	1.31E-8	
<i>Diaporthe batatas</i>	XP_044648057.1	AQGTFANDFNLLIPT	6.40E-16	PSNARVADYLPY	4.76E-15	QAGSYGGFQH	4.74E-14	VPAVLAGETEDK	7.26E-12	RAEWAGVGISLK	4.74E-12	
<i>Diaporthe eres</i>	KAI7784403.1	AQGTVETDPNDLIPT	1.95E-19	PCNALVTDYLHY	1.37E-9	HNGGYGAITH	2.65E-21	VPMVVAGEGQDK	4.95E-13	NF		
<i>Diaporthe helianthi</i>	POS81165.1	AQGTFANDFNLLIPT	6.40E-16	PPNARVADYLPY	1.62E-14	QAGSYGGFQH	4.74E-14	VPAVLAGDTEDK	1.02E-11	RAEWAQVGLSLK	2.16E-9	
<i>Diaporthe ilicicola</i>	KAI3399409.1	TQGTFATDPTSLIIPA	6.15E-19	PSNLRLASWLPY	4.25E-9	TNGGYGSVTQ	1.34E-19	VPLVCAGTSEDK	3.69E-13	NF		
<i>Valsa sordida</i>	ROV93292.1	AQGTVETDPNDLIPT	9.56E-18	PGNALVTDYLSY	2.70E-10	HNGGYGAITH	2.65E-21	VPMVVAGEGQDK	4.95E-13	NF		
<i>Cytospora leucostoma</i>	ROW16112.1	AQGTVETDPNDLIPT	1.95E-19	PGNALVTDYLNLY	1.37E-9	HNGGYGAITH	3.80E-21	VPMVVAGEGQDK	4.95E-13	RVRFSGIGVGLG	1.31E-8	
<i>Coniella lustricola</i>	PSR88517.1	AQGTVETNPNELIPT	9.56E-18	PSNARITDYLHY	2.14E-11	HNGGYGAITH	3.80E-21	VPMVVAGEGQDK	4.95E-13	RIRYSGIGVGLG	1.31E-8	
<i>Gnomoniopsis smithogilvyi</i>	KAJ4397375.1	AQGTVETNPNDLIPT	1.79E-18	PKNARVTDYLHY	1.47E-11	HNGGYGAITH	3.80E-21	VPMVVAGEGQDK	4.95E-13	NF		

<i>Cryphonectria parasitica</i>	XP_040776216.1	AQGT V ETNPYDLI P T	1.79E-18	PTNAR V TDYL H Y	7.65E-11	HN G GYGA I TH	2.65E-21	V P MMV A GE G Q D K	4.95E-13	R V RY S GIGV G LG	5.65E-9
<i>Pyricularia grisea</i>	KAI6379156.1	AQGT V AVKYNDLI P V	3.40E-16	PTNT K VVD F MPY	1.31E-10	INAGYGG F TQ	6.66E-20	V P MMV F SG D T E D K	6.49E-12	R G Q W AGV G YN L R	1.44E-12
<i>Pyricularia oryzae</i>	KAI6251849.1	AQGT V ALDYN K LAV P A	5.01E-15	PANAR V VDV L PY	1.14E-11	IN F GYGG F TQ	2.66E-16	F P MLLAG D T E D K	6.54E-11	R G EWAGV G YN L R	5.94E-13
<i>Magnaporthiopsis poae</i>	KLU84765.1	TQGT Y AVD P TAL I F P A	2.59E-15	NF		TN G GYGS V TQ	2.75E-20	V P LV C AGAS E D K	3.24E-12	NF	
<i>Gaeumannomyces tritici</i>	XP_009229452.1	AQGT V STSP H ELL A P T	6.20E-14	PANAR V LD Y FPY	5.89E-12	HNAGYGG V Q Q	7.24E-18	V P LV A AGQ N ED K	5.01E-11	R I Q C AGV G YN L A	2.16E-9
<i>Sporothrix brasiliensis</i>	XP_040617365.1	TQGT I ATNTD L L V K P T	9.72E-13	PAN V RTAA F VP H	3.62E-8	TNAGYNG V LA	6.04E-16	V P LV C AG R T E D K	4.95E-13	R V AW S CAG I D L A	4.48E-11
<i>Sporothrix schenckii</i>	XP_016584143.1	TQGT I ATNTD L L V K P T	9.72E-13	PAN V RTAA F VP H	3.62E-8	TNAGYNG V LA	6.04E-16	V P LV C AG R T E D K	4.95E-13	R V AW S CAG I D L A	4.48E-11
<i>Grosmannia clavigerum</i>	XP_014175810.1	TQGT I AT S YSD L L I P T	9.56E-18	PANAR V VD Y LPY	3.84E-14	LNAGY G GL H	1.67E-18	V P MMV L AG S T E D K	7.60E-13	R G Q C AGV A VN L R	8.58E-11
<i>Ophiostoma piceae</i>	EPE10437.1	TQGT I SVNTD L L V K P T	7.28E-13	PAN V RTA F VP H	2.48E-8	TNAGYNG T L T	1.73E-15	V P LV C AG R SE D K	1.50E-12	R V AW S CAG I D L G	1.37E-11
<i>Coniochaeta hoffmannii</i>	KAJ9155879.1	AQGT V ETD P WEL I L P T	7.92E-17	PSNAR V TDYL H Y	5.16E-12	HN G GYGAV Q H	2.20E-21	V P MMV G GE G Q D K	1.76E-12	R I AY S GIGV N LG	1.93E-10
<i>Coniochaeta ligniaria</i>	OIW23813.1	AQGT V ETD P WEL I L P T	7.92E-17	PSNAR V TDYL H Y	5.16E-12	HN G GYGAV Q H	2.20E-21	V P MMV A GE G Q D K	4.95E-13	R M AY S CAGV S LG	8.31E-9
<i>Coniochaeta pulveracea</i>	RKU48537.1	AQGT V ETD P NQL V I P T	8.37E-18	PT I RR L VD H ASY	1.88E-5	HN G GYGAV Q H	2.20E-21	V P MMV I AGE G Q D K	1.76E-12	R L AY S CAGV D L K	1.68E-9
<i>Cephalotrichum gorgonifer</i>	SPO03607.1	TQGT V VS N FD N L V K P V	2.56E-13	PRNAR V QD Y LLY	1.25E-9	SN G GYGG F MQ	3.20E-20	V P MMV L AG T TQ D K	1.46E-13	R G EWAG I AVN L R	4.06E-13
<i>Thozetella sp. PMI_491</i>	KAH8901217.1	SQGT A HVD S QL I V P T	8.90E-17	PQN V R W T D FLAY	8.25E-9	CNAGY G ST S H	8.63E-16	T P AV L AGE V LD K	5.80E-9	NF	
<i>Thyridium curvatum</i>	XP_030999529.1	SQGT A EV D Y G QL I V P T	9.99E-17	P D N V RCAD F LAY	7.15E-10	CNAGY G ST S H	1.83E-16	V P AV L AGE V LD K	7.01E-10	NF	
<i>Phialemonium atrogriseum</i>	KAK1762806.1	AQGT V AVD F MD L V I P T	2.74E-16	PANAR V ID Y LPY	9.57E-15	MN G GYGG V M H	2.02E-20	V P LV L AG D T E D K	5.67E-13	R A EWAGV A VN L R	8.67E-13
<i>Phaeoacremonium minimum</i>	XP_007916963.1	TQGT V NN K P D QL I Q P A	1.48E-14	PSNAR V ID Y LPY	9.29E-16	F N GG F GGY M H	5.21E-18	I P MMV A G I SE D K	1.55E-11	R A EWAGV A VN L R	8.67E-13
<i>Pleurostoma richardsiae</i>	KAJ9149742.1	AQGT V E F D P HDL I P T	6.39E-18	PAN V RVAD Y LSY	3.38E-13	HNAGY G AV T H	1.06E-20	V P MMV A GE G Q D K	4.95E-13	NF	
<i>Ascochyta clinopodiicola</i>	KAJ4346241.1	TSST V V F D N N V LI P A	7.69E-12	PENAR V T K FF L	8.25E-9	TN G GYGT I Q Q	9.00E-18	V P M I VSGV G Q D K	7.14E-11	NF	
<i>Ascochyta lentis</i>	KAF9695519.1	TSST V V F D N N V LI P T	3.21E-12	P D NAR V T K FI L	3.29E-9	TN G GYGT I Q Q	2.32E-17	V P M I VSGV G Q D K	7.14E-11	NF	
<i>Ascochyta rabiei</i>	XP_038797369.2	TSST V V F D N N V LI P A	7.69E-12	PENAR V T K FF L	8.25E-9	TN G GYGT I Q Q	9.00E-18	V P M I VSGV G Q D K	7.14E-11	NF	
<i>Didymella heteroderae</i>	KAF3045961.1	SQGT V ETD L SN L VL P T	3.20E-14	PHNAR V AK F VPY	7.65E-11	IN G GYGA I V Q	2.89E-15	V P V V VSG K GQ D K	7.52E-10	I I Q W SGV G ID I G	4.83E-9
<i>Didymella pomorum</i>	KAJ4411464.1	SQGT V ETD L SD L LL P T	5.20E-16	PRNAR V AK F VPY	5.47E-11	NN G GYGA I I Q	5.62E-15	I P V V VSG E GQ D K	5.66E-10	I I Q W SGV G V D I G	6.60E-9
<i>Boeremia exigua</i>	XP_046000075.1	SQGT V ETD L SN L VL P T	3.78E-16	PHNAR V AK F VPY	7.65E-11	NN G GYGA I V Q	3.16E-17	V P LV V GG E GQ D K	1.26E-11	I V Q W SGV G I V V G	2.18E-8
<i>Macroventuria anomochaeta</i>	XP_033560487.1	SQGT I ET D LNN L VL P T	4.21E-16	PQNAR V AK F VPY	5.47E-11	NN G GYGA I V Q	1.67E-16	T P LV V GG E GQ D K	2.29E-10	I V Q W SGV G I V V G	2.18E-8
<i>Epicoccum nigrum</i>	OSS46826.1	SQGT V ETD L TN L VL P T	1.26E-16	PANAR V AK F VPY	1.01E-11	NN G GYGA I V Q	3.16E-17	V P LV V AGE G Q D K	4.67E-12	I V Q W T C V G LN I G	1.51E-8
<i>Stagonospora sp. SRC1sM3a</i>	OAL04400.1	SQGT V GT N LN D LL I P T	2.59E-15	P K NAR V AK F VPY	1.89E-11	NN G GYGA I V Q	6.61E-16	I P MMV A G K GQ D K	5.96E-11	NF	

<i>Bysothecium circinans</i>	KAF1948264.1	SQGTLEVN PEN LVLPT	1.97E-16	PSNARVTKFVPF	2.44E-10	SNGGYVAVQH	3.71E-15	VPMVVS GTTQDK	4.67E-12	II EY TGVGINLR	4.52E-10
<i>Massarina eburnea</i>	KAF2646682.1	SQGTVEVR PED LVLPA	2.85E-15	PSNARVAKFVPY	6.73E-12	TNGGYGAVQH	2.36E-18	VPMVVS GEGQDK	5.75E-12	II EY TGVGINLK	3.42E-10
<i>Bipolaris maydis</i>	XP_014078238.1	SQGTIAVNF N DLVVPT	7.04E-17	PSNAR VEG FIPF	3.30E-10	TNGGYGSVQH	4.95E-19	VPLVL AGASEDK	1.72E-11	RAEWAG VAVN LR	8.67E-13
<i>Bipolaris oryzae</i>	XP_007682054.1	SQGTIAVNF N DLVVPT	7.04E-17	PSNAR VEG FIPF	3.30E-10	TNGGYGSVQH	3.84E-19	VPLVL AGASEDK	1.72E-11	RAEWAG VAVN LR	8.67E-13
<i>Decorospora gaudefroyi</i>	KAF1836052.1	SQGT VTN FDELLIPT	4.37E-17	RGNVR ATR FVPY	3.00E-7	SNGGFGAVMT	1.59E-15	IPVV VAGSGQDK	7.01E-10	NF	
<i>Kalmusia sp. IMI 367209</i>	KAJ4293461.1	SQGT VE TKPE III PT	1.75E-15	PDNAR VARY IPH	8.54E-11	ANGGFGAVQK	7.34E-10	IPMVL SGVGQDK	1.10E-10	NF	
<i>Karstenula rhodostoma</i>	KAF2448746.1	SQGT VTN PNDLILPT	9.80E-19	PNNAR VARY IPH	1.31E-10	GNGGFGGVQK	9.82E-10	IPM VISGVAQDK	1.96E-9	IA DFT GVGINLG	8.97E-9
<i>Paraphoma chrysanthemicola</i>	KAH7071542.1	SQGT LGT NMGDLLLPT	1.61E-14	PKN TR VAKFVPY	3.06E-11	NNGGFGAVIS	1.37E-14	IPMVL AGTGQDK	6.49E-12	NF	
<i>Setomelanomma holmii</i>	KAF2023082.1	SQGT VAME FGDLLST	2.70E-14	PRNAR VAKF VPY	5.47E-11	NNGSYGAVIT	4.74E-14	VPMVL AGTGQDK	5.67E-13	NF	
<i>Pyrenochaeta sp. DS3sAY3a</i>	OAL46984.1	SQGT VT TNLNEILPT	8.66E-15	PVN ARA AKFVPY	3.29E-9	SNGGYGAVMT	2.89E-15	VPLVV GEGQDK	1.26E-11	NF	
<i>Cucurbitaria berberidis</i>	XP_040790731.1	SQGT LETQ WDDLLIPT	4.46E-14	PAN ARA AKFVPY	5.37E-10	NNGGYGAVMT	8.03E-14	IPVV VAGDGQDK	1.67E-10	NF	
<i>Clohesyomyces aquaticus</i>	ORY16921.1	TQGT VTVD YTELLIPT	5.24E-19	GANVR LDY FSY	1.14E-10	SNAGFGTYLH	2.09E-17	VPMVL AGTKL DK	1.01E-10	RA EY CGIAIDLK	1.37E-11
<i>Dendryphion nanum</i>	KAH7135333.1	SQGT VAPV LSEIVLPT	2.12E-12	PENAR VAKF IPY	1.01E-11	SNGGYGAVQH	2.32E-17	IPM VVSGIGQDK	1.96E-10	IV QW SGVGLNLE	1.99E-9
<i>Lophiostoma macrostomum</i>	KAF2648898.1	SQGT AE TNL EH LVLPT	1.76E-14	PGNVR VAKF VPY	7.65E-11	SNGGYGAVLH	9.40E-17	IPM VVAGMGQEK	2.68E-10	II EW SGVGINLK	1.98E-11
<i>Lophiotrema nucula</i>	KAF2113514.1	SQGT VTEN PEDLVLPT	7.92E-17	PAN TR VAKFVPY	1.67E-11	SNGGYGAVQH	4.72E-17	IPM VVSGLSQDK	3.13E-10	NF	
<i>Melanomma pulvis-pyrius</i>	KAF2786108.1	TQGT VTVD YSELLIPA	1.42E-17	GANVR LDY FSY	1.14E-10	TNAGFGSYLH	1.32E-18	VPMVL AGTKL DK	1.01E-10	RA EY CGIAIDLK	1.37E-11
<i>Polyplosphaeria fusca</i>	KAF2731913.1	SQGT VGLD MNDLLIPT	5.49E-15	PAN TR VEKFVPY	4.35E-11	SNGGYGAVQQ	4.21E-16	IPM VVGGIVQDK	2.48E-10	LI QY TGVGIDLR	4.13E-9
<i>Trematosphaeria pertusa</i>	XP_033681098.1	SQGTVEVR PED LVLPT	1.94E-15	PKNAR VAKF VPY	1.89E-11	SNGGYGAVQH	2.32E-17	IPM VVAGEGQDK	5.75E-12	LV DFT GVGIDLK	8.97E-9
<i>Periconia macrospinosa</i>	PVH96591.1	TQGT VSVD YSELLIPA	1.61E-17	GANVR LDY FSS	8.09E-8	TNAGFGSYLH	1.32E-18	VPMVL AGTKL DK	1.01E-10	RA EY CGIAIDLK	1.37E-11
<i>Botryosphaeria dothidea</i>	KAF4305872.1	SQGT LDVD LQQLVLPT	2.94E-14	PHNVR VEG WIPY	3.64E-10	TNGGYGSLQH	6.66E-20	VPLV IAGGSMDK	4.58E-11	RAEWAG LGVN LR	6.27E-12
<i>Neofusicoccum parvum</i>	EOD53031.1	SQGT VDVD LSQLVLPT	4.16E-15	PRNAR VEG WIAY	3.59E-9	TNGGYGSLQA	1.25E-16	VPLVL AGGSIDK	1.54E-10	RAEWAG LGVN LR	6.27E-12
<i>Macrophomina phaseolina</i>	EKG11414.1	SQGT IDVD LHQVLVPT	6.02E-15	PANAR VEG WIPY	3.87E-11	TNGGYGSLSQ	7.01E-17	VPLVV AGGSIDK	2.48E-10	RAEWAG LAVN LR	1.37E-11
<i>Aureobasidium melanogenum</i>	KAG9597102.1	NF		PANAR IASY LPF	3.64E-10	TNGGYN SVNQ	7.23E-16	IP IVA AGVTEDK	9.97E-10	RI AW SGAGINLR	5.45E-12
<i>Mytilinidion resinicola</i>	XP_033568734.1	TAG SIDNN PEDLILPT	5.43E-13	PANAR MAK FIPY	3.87E-11	SNGGYGT VQQ	4.27E-17	VPMVL AGVGQDK	2.24E-12	NF	
<i>Lophium mytilinum</i>	KAF2497128.1	T SG SIDNN PE DLILPT	1.49E-13	PVNAR MAK FIPY	3.30E-10	SNGGYGT VQQ	2.57E-17	VPMVL SGVGQDK	1.91E-11	VA AWA G V AIDLQ	4.13E-9
<i>Glonium stellatum</i>	OCL02246.1	SSGS VDNN PEDLI IP T	1.48E-14	PSNAR IAK FVPF	2.20E-10	SNGGYGT VQQ	7.01E-17	VPMVL AGVGQDK	2.24E-12	IA DWA G V AINLA	1.20E-10
<i>Zopfia rhizophila</i>	KAF2191997.1	SQGT VEAN PKDLTLPT	1.35E-14	PKNAR IAK FVPY	6.84E-11	SNGGYGAVQH	2.85E-17	IPM VVSGIGQDK	1.96E-10	LV EW SGVGINLK	2.83E-11

<i>Aspergillus awamori</i>	GCB23152.1	TQGTVKIHYKDLLIPT	4.93E-17	PDNAQVIDYLSY	4.35E-11	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus brasiliensis</i>	GKZ22376.1	TQGTIRTYRELIIFA	1.41E-16	PDNAKVIDYLSY	3.93E-12	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus carbonarius</i>	OOG00364.1	TQGTFRIDYNELIIPT	1.54E-18	PKNAKVIDYLLY	7.65E-11	TNGGYGSFTH	1.33E-24	VPMVMAGTGQDK	7.60E-13	RVEWAGIGVNLNR	7.17E-14
<i>Aspergillus carlsbadensis</i>	KAJ0415219.1	SQGTTFQVDYDMLLKFS	2.48E-14	PANTRVVDFLSY	1.19E-12	SNAGYGGFLH	2.65E-21	VPMVLAGSGQDK	4.13E-12	RGEWAGIAVNLR	2.10E-13
<i>Aspergillus costaricensis</i>	XP_025540426.1	TQGTVKTYKKNLLIPT	5.56E-17	PDNAKVIDYLSY	3.93E-12	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus eucalypticola</i>	XP_025383912.1	TQGTIKTHYKDLVIPT	4.37E-17	PDNAKVIDYLSY	3.93E-12	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus hancockii</i>	KAF7587272.1	TQGTFRVDHRELLIPT	3.44E-15	PSNAKVIDYLSY	7.19E-13	TNGGYGSFMH	1.42E-22	VPMVMAGTGQDK	7.60E-13	RGEWAGIAVNLR	5.45E-12
<i>Aspergillus homomorphus</i>	XP_025552456.1	TQGTFILEYRMLLIPT	2.74E-16	PENAKVVDYLSY	1.14E-11	TNGGYGGFLH	1.12E-22	VPMVIAGTGQDK	4.13E-12	RGEWAGIAANLR	3.18E-11
<i>Aspergillus ibericus</i>	XP_025578007.1	TQGTFRIDYNELVIPT	3.42E-17	PSNAKVVDYLLY	4.35E-11	TNGGYGSFTH	1.33E-24	VPMVMAGTGQDK	7.60E-13	RVEWAGIGVNLNR	7.17E-14
<i>Aspergillus luchuensis</i>	OJZ81278.1	TQGTDKTYKKNLLIPT	2.13E-15	PNNTKVIDYLSY	1.14E-11	TNGGYGGFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus mulundensis</i>	XP_026604105.1	SQGTVMVDYNMLLIPT	2.67E-17	PANAKVVDYLLY	6.12E-11	NNGGYGGFMQ	1.82E-21	VPMVLAGVELDK	3.91E-10	RGEWAGIAVNLR	4.06E-13
<i>Aspergillus neoniger</i>	XP_025484262.1	TQGTVKIYYKKNLLIPT	1.12E-16	PDNAKVIDYLSY	3.93E-12	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus niger</i>	GKZ64237.1	TQGTVKIHYKDLLIPT	4.93E-17	PDNAQVIDYLSY	4.35E-11	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus piperis</i>	XP_025513870.1	TQGTDKTYKKNLLIPT	2.13E-15	PNNTKVIDYLSY	1.14E-11	TNGGYGGFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Aspergillus sclerotiicarbonarius</i>	PYI02360.1	TQGTFRIDYTELIIPT	7.19E-19	PNNAKVVDYLSY	1.01E-11	TNGGYGSFTH	1.33E-24	VPMVMAGTGQDK	7.60E-13	RVEWAGIGVNLNR	7.17E-14
<i>Aspergillus sclerotioniger</i>	XP_025463962.1	TQGTFRIDYKELIIPT	2.36E-17	PSNARVVDYLLY	8.83E-12	TNGGYGSFTH	1.33E-24	VPMVMAGTGQDK	7.60E-13	RVEWAGIGINLR	1.95E-14
<i>Aspergillus tubingensis</i>	GLB04893.1	TQGTVKTYKKNLLIPT	5.56E-17	PDNAKVIDYLSY	3.93E-12	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	1.29E-14
<i>Aspergillus versicolor</i>	UZP48228.1	SQGAVNNPTDLILPT	6.40E-16	PSNVKLAEIFPF	8.25E-9	SNGGFGTVQM	5.05E-16	VPMVLAGVYLDK	2.48E-10	NF	
<i>Aspergillus welwitschiae</i>	XP_026624638.1	TQGTVKIHYKDLLIPT	7.23E-15	PDNAQVIDYLSY	4.35E-11	TNGGYGSFMH	3.42E-24	VPMVLAGTVQDK	3.24E-12	RGEWAGIGINLR	2.76E-14
<i>Penicillium zonata</i>	XP_022577075.1	TQGTISLDYTALLVPT	3.05E-16	PANARVLDYLAY	1.18E-10	SNGGYGGFLH	1.34E-19	VPMVLAGEGQDK	2.02E-13	RGEWAGIAVDLR	8.67E-13
<i>Penicillium alfredii</i>	XP_056509782.1	TQGTVAIDYDMLLIIPA	1.61E-17	PVNAKVVDYLSY	2.71E-11	TNGGYGSFMH	4.73 E-24	VPMVMAGTTQDK	2.02E-13	RGEWAGIAVNLR	4.06E-13
<i>Penicillium bovisomum</i>	XP_056526610.1	SQGAVNNPTDLILPT	6.40E-16	PSNVKLADFIPF	3.64E-10	SNGGYGTVQM	1.34E-15	VPMVLAGVYLDK	2.48E-10	NF	
<i>Penicillium macrosclerotiorum</i>	XP_056934836.1	AQGTFILEYRMLLIPT	2.59E-15	PNNAKVIDYFPY	7.71E-12	TNGGYGGFLR	4.36E-19	VPMVIAGTGQDK	4.13E-12	RGEWAGIAANLR	3.18E-11
<i>Penicillium odoratum</i>	XP_057000407.1	SQGSVHNDPEELILPA	3.78E-15	PSNVRIARFIPF	1.79E-10	SNGGFGTVQQ	1.11E-17	VPMVLAGMSADK	3.43E-11	HAAWAGAAINLA	2.55E-9
<i>Talaromyces amestolkiae</i>	XP_040736898.1	TQGTFLLDYNMLLKPT	1.04E-14	PRNTKIADYLPY	3.44E-11	SNAGYGGFLH	2.36E-20	VPMVLAGRQDK	2.24E-12	RGEWAGIALNLR	7.14E-12
<i>Talaromyces atrovirens</i>	XP_020121501.1	TQGTIAVDYNALLIPT	7.32E-18	PSNAKVVDYLMY	5.47E-11	TNAGYGGFIS	2.29E-19	VPMVWAGRQDK	3.43E-11	RGEIAGIGVNLNR	2.35E-9
<i>Cladophialophora carrionii</i>	XP_008725802.1	SQGTNLNINVTLLIIPT	2.74E-16	PDNVRVASYLFF	4.01E-10	SNAGYGTVQQ	4.72E-17	VPMVLAGVGEDK	1.35E-12	RAAWAGVAVNLNR	2.67E-12

<i>Cladophialophora chaetospira</i>	KAJ9615145.1	SQGTLNINVTDLIPT	2.74E-16	PKNAHVARYLFF	1.46E-10	SNAGYGTVQQ	4.72E-17	VPMVLAGVGEDK	1.35E-12	RAAWAGVAINLK	1.44E-12
<i>Phaeomoniella chlamydospora</i>	KKY20074.1	NF		PSNVLVAKFIPF	5.91E-10	NNGGYGTVQT	1.87E-14	VPMVLAGQTEDK	7.46E-15	RAAWSGAAINLA	8.58E-11
<i>Botryotinia calthae</i>	TEY37428.1	SQGTVALNYESDLIPT	9.47E-21	PKNVYVEDFLPF	1.99E-10	TNGGYGGFQH	4.22E-25	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botryotinia convoluta</i>	TGO51629.1	SQGTVALNYESDLIPT	3.85E-20	PKNTYVEDFIPF	2.20E-10	TNGGYGGFQH	4.22E-25	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botryotinia globosa</i>	KAF7901251.1	SQGTVALNYESDLIPT	3.85E-20	PKNAYVEDFIPF	1.46E-10	TNGGYGGFQH	5.72E-26	VPMVMGGETEDK	1.46E-13	RCEWIGAGVNLK	1.68E-12
<i>Botryotinia narcissicola</i>	TGO56301.1	SQGTVALNYESDLIPT	3.85E-20	PKNAYVEDFIPF	1.46E-10	TNGGYGGFQH	4.22E-25	VPMVMGGETEDK	1.46E-13	RCEWIGAGVNLK	1.68E-12
<i>Botrytis aclada</i>	KAF7956861.1	SQGTVALNYESDLIPT	3.85E-20	PKNAYVEDFLPF	1.31E-10	TNGGYGAFQH	4.41E-22	IPMVMGGDTEDK	3.24E-12	RCEWIGVGVNLK	7.23E-13
<i>Botrytis byssoidea</i>	XP_038733006.1	SQGTVALNYESDLIPT	3.85E-20	PKNAYVEDFIPF	1.46E-10	TNGGYGGFQH	4.22E-25	VPMVMGGETEDK	1.46E-13	RCEWIGAGVNLK	1.68E-12
<i>Botrytis cinerea</i>	EMR81961.1	SQGTVALDYESDLIPT	3.17E-20	PKNAYVEDFLPF	1.31E-10	TNGGYGGFQH	4.22E-25	VPMVMGGDSEK	1.13E-11	RGEWIGVGVNLK	1.21E-12
<i>Botrytis deweyae</i>	XP_038811764.1	SQGTVALNYESDLIPT	4.47E-19	PKNAYIEDFIPF	4.43E-10	TNGGYGGFQH	4.22E-25	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botrytis fragariae</i>	XP_037193260.1	SQGTVALNYESDLIPT	3.85E-20	SKNTYVEDFIPF	3.29E-9	TNGGYGGFQH	5.72E-26	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botrytis galanthina</i>	THV45154.1	SQGTVALNYESDLIPT	3.85E-20	PKNVYVEDFLPF	1.99E-10	TNGGYGGFQH	4.22E-25	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botrytis paeoniae</i>	TGO20471.1	SQGTVALNYESDLIPT	3.85E-20	PKNTYVEDFIPF	2.20E-10	TNGGYGGFQH	4.22E-25	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botrytis porri</i>	XP_038768623.1	SQGTVALNYESDLIPT	3.85E-20	PKNAYVEDFLPF	1.31E-10	TNGGYGAFQH	3.42E-24	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botrytis sinoallii</i>	XP_038760845.1	SQGTVALNYESDLIPT	4.47E-19	PKNAYVEDFIPF	1.46E-10	TNGGYGGFQH	4.22E-25	VPMVMGGDTEDK	2.25E-13	RCEWIGVGVNLK	7.23E-13
<i>Botrytis tulipae</i>	TGO09160.1	SQGTVALNYESDLIPT	3.85E-20	PKNAYVEDFIPF	1.46E-10	TNGGYGGFQH	5.72E-26	VPMVMGGETEDK	1.46E-13	RCEWIGAGVNLK	1.68E-12
<i>Sclerotinia borealis</i>	ESZ95592.1	SQGTIALNYESDLIPT	4.47E-19	PSNAYVEEFVPF	5.94E-9	TNGGYGGFQH	1.12E-22	CPMVMGGETEDK	3.68E-12	RGEWTGVGIDLK	7.23E-13
<i>Sclerotinia nivalis</i>	KAJ8071588.1	SQGTVAVKYELIPT	8.40E-19	PSNVRVEDFIPF	1.47E-11	TNGGYGAFRH	1.72E-20	VPMVMGGDAQEK	1.67E-10	RCEWAGVGINLR	3.28E-15
<i>Sclerotinia sclerotiorum</i>	XP_001589362.1	SQGTVAVKYELIPT	3.19E-18	PSNVHVEDFIPY	5.89E-12	TNGGYGSFRH	1.53E-19	VPMVIGGDTQEK	2.83E-11	RCEWAGAGVNMNR	6.27E-12
<i>Sclerotinia trifoliorum</i>	CAD6453695.1	SQGTIAVKYELIPT	7.32E-18	PSNARVEDFIPF	8.83E-12	TNGGYGAFRH	2.97E-19	VPMVIGGGTQEK	5.96E-11	RCEWAGAGINMR	3.58E-12
<i>Monilinia laxa</i>	KAB8303359.1	SQGTVALKYEDLLIPT	1.24E-17	PKNAFVEDFIPF	1.95E-9	TNGGYGAFQH	3.55E-22	CPMVMGGDTEDK	5.23E-12	RCQWTGVGINLK	2.65E-13
<i>Stromatinia cepivora</i>	KAF7872547.1	SQGTVALKYELIPT	3.03E-17	PSNAYVEDFVPF	2.44E-10	TNGGYGAYQH	6.43E-21	VPMIMAGDTQEK	6.49E-12	RCEWLGTGINLR	5.43E-10
<i>Rhexocerosporidium sp. MPI-PUGE-AT-0058</i>	KAH7346361.1	SQGTATTMYEKLILPT	3.13E-15	PQNARVGDFIPF	1.25E-9	TNGGYGGFQH	3.18E-21	NF		RVEWAGLGVNMR	4.48E-11
<i>Pseudogymnoascus destructans</i>	XP_024325152.1	SQGTNLNLYTELIPT	3.80E-19	PENARVVDFIPF	2.71E-11	TNGGYGAVQH	1.02E-19	VPMIAGATEDK	1.39E-11	RAEWAGVAINLR	4.06E-13
<i>Pseudogymnoascus verrucosus</i>	XP_018126712.1	SQGTNLNLYALIPT	6.39E-18	PENARVVDFIPF	2.71E-11	TNGGYGAVQH	1.04E-18	IPMIAGATEDK	8.53E-11	RAEWAGVAINLR	4.06E-13
<i>Claussenomyces sp. TS43310</i>	KAI9732059.1	CQGTLAMNYSDLIPT	8.09E-20	PSNSRVADYIPF	5.47E-11	TNGGYGGFQH	1.72E-20	VPLVIGGSTEDK	7.14E-11	RAAWAGVGVNLQ	1.55E-11
<i>Alectoria fallacina</i>	CAF9943470.1	NF		PANVRVERFIPH	2.44E-10	TNAGFNGVLA	9.42E-16	VPLICAGISEDK	4.67E-12	NF	

<i>Alectoria sarmentosa</i>	CAD6566374.1	NF		PANVRVERFIPH	2.44E-10	TNAGFNGVLA	9.42E-16	VFLICAGISEDK	4.67E-12	NF	
<i>Lasallia pustulata</i>	KAA6413478.1	SQGTLSNEPEDLTIPA	4.85E-14	PSNVKIAQWIPF	3.29E-9	NNGGYGTINL	3.77E-14	VPLVLAGLSEDK	2.12E-11	RTAWTGAAIDLA	2.76E-9
<i>Pycnora praestabilis</i>	KAI9822666.1	SQGTASFDLNLLVVPT	3.22E-13	PANAKVAKFIPF	9.51E-11	SNGGYGTIQQ	4.27E-17	VPMVLAGMTEDK	4.95E-13	RTAWTGAAINLA	1.55E-9
<i>Xylona heveae</i>	XP_018185306.1	TQGTLIAEPSALILPA	5.84E-13	PPNVRIEFPFIPH	3.91E-9	STGGYNGVKM	1.12E-12	NF		RISWAGAAINLR	8.16E-12

Accession number: Unique identifier assigned to each biological sequence within the NCBI database. **p-value:** Probability that a random sequence (of the same length) would match the test motif with a score equal to or higher than the highest found in the test sequence. **NF:** Not found.

Figure S4. Motifs location types in putative Rht2 sequences.

