

Table 2 The information of species and their mitochondrial genomes for constructing the mitochondrial-genome phylogenetic tree of Hypocreales

Order	Family	Species	Genbank ID	Strain	Notes
Eurotiales	Aspergillaceae	<i>Penicillium citrinum</i>	NC047444	JH1205	Outgroup
Sordariales	Sordariaceae	<i>Neurospora crassa</i>	KY498478	FGSC 9718	
Hypocreales	Bionectriaceae	<i>Clonostachys rosea</i>	NC036667	6792	
		<i>Acremonium chrysogenum</i>	NC023268	ATCC:11550	
		<i>Acremonium fuci</i>	NC029851	3a34	
		<i>Clonostachys compactiuscula</i>	MW030498	YFCC 897	
		<i>Clonostachys rogersoniana</i>	MW030499	YFCC 899	
		<i>Paecilomyces penicillatus</i>	NC043850	SAAS_ppel	
	Hypocreaceae	<i>Trichoderma hamatum</i>	NC036144	—	
		<i>Hypomyces aurantius</i>	NC030206	—	
		<i>Trichoderma asperellum</i>	NC037075	B05	
		<i>Trichoderma reesei</i>	NC003388	QM9414	
		<b><i>Ophiocordyceps nujiangensis</i></b>			<b>YFCC8894</b>
	Ophiocordycipitaceae	<i>Tolypocladium cylindrosporum</i>	NC046839	ARSEF963	
		<i>Tolypocladium inflatum</i>	KY924883	ARSEF 616	
		<i>Tolypocladium ophioglossoides</i>	NC031384	L2	
		<i>Tolypocladium guangdongense</i>	NC054274	GD15	
<i>Ophiocordyceps sinensis</i>		NC034659	CCTCC AF 2017003		
<i>Hirsutella rhossiliensis</i>		NC030164	USA-87-5		
<i>Hirsutella vermicola</i>		NC036610			
<i>Ophiocordyceps pingbianensis</i>		MW042690			

	<i>Hirsutella</i> <i>minnesotensis</i>	NC027660		
	<i>Hirsutella</i> <i>thompsonii</i>	NC040165		
Clavicipitaceae	<i>Epichloe hybrida</i>	KX066187	Lp1	
	<i>Epichloe festucae</i>	NC032064	AR5	
	<i>Epichloe typhina</i>	NC032063	E8	
	<i>Metarhizium</i> <i>album</i>	MW448543	ARSEF1941	
	<i>Metarhizium</i> <i>brunneum</i>	LR792747	ARSEF 4556	
	<i>Metarhizium</i> <i>rileyi</i>	MT107156	RCEF 4871	
	<i>Metarhizium</i> <i>robertsii</i>	JELW01000 367	ARSEF 2575	
	<i>Orbiocrella</i> <i>petchii</i>	MT447058	SD3	
	<i>Metacordyceps</i> <i>chlamydosporia</i>	NC022835	170	
	Cordycipitaceae	<i>Samsoniella</i> <i>hepiali</i>	KJ764671	—
		<i>Lecanicillium</i> <i>saksenae</i>	NC028330	CGMCC5329
<i>Akanthomyces</i> <i>lecanii</i>		NC046840	RCEF1005	
<i>Beauveria</i> <i>bassiana</i>		NC010652	Bb13	
<i>Beauveria</i> <i>malawiensis</i>		NC030635	k89	
<i>Beauveria</i> <i>pseudobassiana</i>		NC022708	C1010	
<i>Beauveria</i> <i>caledonica</i>		NC030636	fhr1	
<i>Beauveria</i> <i>brongniartii</i>		NC011194	IMBST95031	
<i>Cordyceps</i> <i>militaris</i>		NC022834	EFCC-C2	
<i>Cordyceps</i> <i>pruinosa</i>		MN515031	CP1	
<i>Cordyceps</i> <i>cicadae</i>		NC041489	CCAD02	
<i>Cordyceps</i> <i>chanhua</i>		MH734937	JGS-7	
<i>Cordyceps</i>		MK234910	YFCC	

	<i>tenuipes</i>		2017002
	<i>Cordyceps</i>	OM201302	YFCC8744
	<i>farinosa</i>		
	<i>Parengyodontiu</i>	KX061492	ATCC:56482
	<i>m album</i>		
	<i>Fusarium</i>	LT841261	ITEM2400
	<i>proliferatum</i>		
	<i>Fusarium</i>	NC017930	F11
	<i>oxysporum</i>		
	<i>Fusarium</i>	NC025928	CBS 123666
	<i>gerlachii</i>		
	<i>Fusarium</i>	JX910420	IMI58289
	<i>fujikuroi</i>		
Nectreaceae	<i>Fusarium</i>	NC026993	CBS 139512
	<i>culmorum</i>		
	<i>Fusarium</i>	NC036106	JCM11502
	<i>commune</i>		
	<i>Fusarium solani</i>	NC016680	mpVI
	<i>Fusarium</i>	NC016687	7600
	<i>verticillioides</i>		
	<i>Ilyonectria</i>	NC030340	2007/P/476
	<i>destructans</i>		