

Table 4 List and distribution of secretion-associated proteins of the fungal genomes belonging to the subphylum Pezizomycotina archived in FSD

Species	Size (Mb)	# of ORFs	Class SP	Class SP ³	Class SL	Putative Secretome	Ref
Fungi (Kingdom) ^a							
Ascomycota (Phylum)							
Pezizomycotina (Subphylum)							
<i>Aspergillus clavatus</i>	27.9	9,121	754	732	81	1,567	[53,54]
<i>Aspergillus flavus</i>	36.8	12,604	1,200	990	142	2,332	[55]
<i>Aspergillus fumigatus</i> A1163	29.2	9,929	807	878	67	1,752	[54]
<i>Aspergillus fumigatus</i> AF293	29.4	9,887	781	909	84	1,774	[56]
<i>Aspergillus nidulans</i>	30.1	10,568	922	877	96	1,895	[57]
<i>Aspergillus niger</i> ATCC1015	37.2	11,200	860	883	88	1,831	N
<i>Aspergillus niger</i> CBS513.88	34.0	14,086	1,142	1,320	154	2,616	[58]
<i>Aspergillus oryzae</i>	37.1	12,063	1,060	1,064	145	2,269	[59]
<i>Aspergillus terreus</i>	29.3	10,406	934	916	81	1,931	[53]
<i>Botrytis cinerea</i>	42.7	16,448	1,163	1,287	182	2,632	N
<i>Chaetomium globosum</i> ^b	34.9	11,124	1,121	923	99	2,143	N
<i>Coccidioides immitis</i> H538.4	27.7	10,663	548	957	80	1,585	N
<i>Coccidioides immitis</i> RMSCC 2394	28.8	10,408	575	920	66	1,561	N
<i>Coccidioides immitis</i> RMSCC 3703	27.6	10,465	539	892	65	1,496	N
<i>Coccidioides immitis</i> RS	28.9	10,457	476	855	102	1,433	[60]
<i>Coccidioides posadasii</i> RMSCC 3488	28.1	9,964	546	838	95	1,479	N
<i>Coccidioides posadasii</i> Silveira	27.5	10,125	558	869	91	1,518	N
<i>Cochliobolus heterostrophus</i> C5	34.9	9,633	932	725	83	1,740	N
<i>Cyphonectria parasitica</i>	43.9	11,184	1,040	951	93	2,084	N
<i>Fusarium graminearum</i> GZ3639 ^c	15.1	6,694	373	386	47	806	[61]
<i>Fusarium graminearum</i> MIPS	36.1	13,920	1,370	1,072	118	2,560	N
<i>Fusarium graminearum</i> PH-1	36.6	13,339	1,282	1,004	118	2,404	[61]
<i>Fusarium oxysporum</i>	61.4	17,608	1,613	1,297	147	3,057	N
<i>Fusarium solani</i>	51.3	15,707	1,381	1,242	155	2,778	[62]
<i>Fusarium verticillioides</i>	41.9	14,199	1,347	1,071	116	2,534	N
<i>Histoplasma capsulatum</i> G186AR	29.9	7,454	357	578	96	1,031	N
<i>Histoplasma capsulatum</i> G217B	41.3	8,038	393	583	103	1,079	N
<i>Histoplasma capsulatum</i> H143	39.0	9,547	468	842	87	1,397	N
<i>Histoplasma capsulatum</i> H88	37.9	9,445	492	832	99	1,423	N
<i>Histoplasma capsulatum</i> Nam1	33.0	9,349	398	736	79	1,213	[60]
<i>Magnaporthe oryzae</i>	41.7	11,069	1,573	833	64	2,470	[63]
<i>Microsporum canis</i>	23.3	8,777	564	702	88	1,354	N
<i>Microsporum gypseum</i>	23.3	8,876	629	669	52	1,350	N
<i>Mycosphaerella fijiensis</i>	73.4	10,327	770	778	81	1,629	N
<i>Mycosphaerella graminicola</i>	41.9	11,395	979	913	81	1,973	N
<i>Neosartorya fischeri</i> ^b	32.6	10,403	959	818	84	1,861	[54]
<i>Neurospora crassa</i>	39.2	9,842	817	788	61	1,666	[64]
<i>Neurospora crassa</i> MIPS	34.2	9,572	788	749	78	1,615	N
<i>Neurospora discretadiscrete</i>	37.3	9,948	823	800	88	1,711	N
<i>Neurospora tetrasperma</i>	37.8	10,640	849	895	73	1,817	N
<i>Paracoccidioides brasiliensis</i> Pb01	33.0	9,136	402	808	71	1,281	N
<i>Paracoccidioides brasiliensis</i> Pb03	29.1	9,264	470	823	92	1,385	N
<i>Paracoccidioides brasiliensis</i> Pb18	30.0	8,741	425	743	55	1,223	N
<i>Penicillium chrysogenum</i>	32.2	12,791	947	1,008	127	2,082	[65]
<i>Penicillium mameffeii</i>	28.6	10,638	713	792	109	1,614	N
<i>Podospora anserina</i>	35.7	10,596	1,127	893	124	2,144	[66]
<i>Pyrenophora tritici-repentis</i>	38.0	12,169	1,228	912	123	2,263	N

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<i>Sclerotinia sclerotiorum</i>	38.3	14,522	971	1,109	147	2,227	N
<i>Sporotrichum thermophile</i>	38.7	8,806	697	658	66	1,421	N
<i>Stagonospora nodorum</i>	37.2	15,983	1,511	1,309	142	2,962	[67]
<i>Talaromyces stipitatus</i>	35.7	13,252	748	1,116	114	1,978	N
<i>Thielavia terrestris</i>	37.0	9,815	877	855	67	1,799	N
<i>Trichoderma atroviride</i>	36.1	11,100	907	935	86	1,928	N
<i>Trichoderma reesei</i>	33.5	9,129	738	766	70	1,574	[68]
<i>Trichoderma virens</i> GV29-8	38.8	11,643	933	1,009	93	2,035	N
<i>Trichophyton equinum</i>	24.2	8,576	571	699	69	1,339	N
<i>Uncinocarpus reesii</i>	22.3	7,798	485	626	64	1,175	[60]
<i>Verticillium albo-atrum</i> VaMs. 102	32.9	10,239	1,074	815	73	1,962	N
<i>Verticillium dahliae</i> VdLs. 17	33.9	10,575	1,157	861	77	2,095	N
Total	2,059.4	641,257	50,164	52,111	5,578	107,853	-

^a Taxonomy based on [69]

^b Insufficient exon/intron information

^c Incomplete coverage of genome information