

S5 Table. BLAST analysis of intronic and free standing HEG protein sequences against mt genomes deposited in NCBI GenBank database. HEG type
were annotated using the NCBI Conserved Domain Database (CDD).

Query (intron)	Top Hit Accession	% identity	Alignment length	E-value	Description	Query length	HEG Type
ca_atp6_i1_orf452	AKQ53315	48.35	424	1.63845e-115	<i>Sclerotinia sclerotiorum</i> 1980 UF-70	452	LAGLIDADG
ca_cob_i1_orf361	1703265F	49.16	299	5.98996e-90	<i>Podospora anserina</i> cytochrome oxidase I intronic ORF	360	LAGLIDADG
ca_cob_i3_orf331	CAA38805	39.07	279	5.17524e-45	<i>Podospora anserina</i>	331	LAGLIDADG
ca_cob_i4_orf344	EYE89922	79.86	288	8.15619e-155	<i>Aspergillus ruber</i> CBS 135680	344	GIY-YIG
ca_cob_i5_orf305	YP_009126715	76.51	315	5.54442e-167	<i>Neurospora crassa</i> OR74A	305	LAGLIDADG
ca_cob_i6_orf179	YP_008964970	42.11	171	1.83817e-36	<i>Annulohyphoxylon stygium</i>	179	LAGLIDADG
ca_cox1_i1_orf327	AKQ53312	72.70	326	9.22196e-169	<i>Sclerotinia sclerotiorum</i> 1980 UF-70	327	LAGLIDADG
ca_cox1_i1_orf361	YP_004376358	48.28	319	1.90945e-92	<i>Moniliophthora roreri</i>	361	LAGLIDADG
ca_cox1_i2_orf240	YP_008082053	42.53	221	5.57199e-45	<i>Rhizoctonia solani</i>	240	LAGLIDADG
ca_cox1_i3_orf183	AFM36681	46.93	179	7.76828e-52	<i>Ophiostoma hyalothecium</i>	183	LAGLIDADG
ca_cox1_i3_orf132	XP_007693509	77.59	116	7.26496e-55	<i>Bipolaris oryzae</i> ATCC 44560	132	LAGLIDADG
ca_cox1_i4_orf369	CAA25371	59.67	367	9.87938e-142	<i>Aspergillus nidulans</i>	369	LAGLIDADG
ca_cox1_i5_orf429	YP_009160660	40.07	272	1.15006e-46	<i>Hirsutella minnesotensis</i>	429	GIY-YIG
ca_cox1_i5_orf173	YP_008964978	75.14	173	3.71338e-93	<i>Annulohyphoxylon stygium</i>	173	LAGLIDADG
ca_cox1_i6_orf430	YP_001249330	62.56	430	1.39084e-179	<i>Fusarium graminearum</i>	430	LAGLIDADG
ca_cox1_i7_orf434	AKQ53319	76.94	425	0	<i>Sclerotinia sclerotiorum</i> 1980 UF-70	434	GIY-YIG
ca_cox1_i8_orf279	YP_008964985	80.99	263	3.95451e-147	<i>Annulohyphoxylon stygium</i>	279	LAGLIDADG
ca_cox1_i8_orf203	XP_002839373	63.64	198	6.25949e-75	<i>Tuber melanosporum</i> Mel28	203	LAGLIDADG
ca_cox1_i9_orf346	YP_005088117	73.78	347	5.333e-172	<i>Fusarium solani</i>	346	LAGLIDADG
ca_cox1_i10_orf269	AFD95924	75.46	269	1.63384e-146	<i>Talaromyces stipitatus</i>	269	GIY-YIG

ca_cox1_i1_orf428	YP_008964986	77.61	451	0	<i>Annulohyphoxylon stygium</i>	428	GIY-YIG
ca_IN_orf362	KIH86252	42.00	300	2.37712e-73	<i>Sporothrix brasiliensis 5110</i>	362	LAGLIDADG
ca_nad2_i2_orf714	1703265F	48.99	296	2.56279e-92	<i>Podospora anserina cytochrome oxidase I intronic ORF</i>	714	GIY-YIG
ca_IN_orf402	4Z1X_A	53.38	296	2.97005e-100	<i>Fusarium graminearum PH-1 Chain B, Crystal Structure Of Laglidadg Homing Endonuclease</i>	402	LAGLIDADG
ca_IN_orf146	YP_004778114	78.57	28	7.43104e-05	<i>Sporothrix schenckii</i>	146	LAGLIDADG
ca_IN_orf191	5E5S_A	48.19	193	1.45587e-52	<i>Sordaria macropora</i>	191	LAGLIDADG
ca_cox2_i1_orf325	YP_008854719	59.04	293	1.0262e-103	<i>Ganoderma sinense</i>	325	GIY-YIG
ca_cox2_i2_orf259	YP_009072388	80.69	259	4.31736e-151	<i>Sclerotinia borealis</i>	259	GIY-YIG
ca_cox2_i2_orf100	YP_009072388	87.63	97	5.45437e-51	<i>Sclerotinia borealis</i>	100	LAGLIDADG
ca_IN_orf459	CCO62245	29.53	359	1.3817e-39	<i>Rhodotorula taiwanensis RSI</i>	459	GIY-YIG
ca_IN_orf369	YP_001249320	52.29	218	3.7195e-70	<i>Fusarium graminearum</i>	369	LAGLIDADG
ca_IN_orf185	AGN49019	69.93	153	3.31461e-66	<i>Botrytis cinerea B05.10</i>	185	GIY-YIG
ca_IN_orf102	EMR89155	71.56	109	8.80858e-42	<i>Botrytis cinerea BcDWI</i>	102	GIY-YIG
ca_nad4L_i1_orf177	AKQ53295	72.90	155	5.30337e-67	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	177	LAGLIDADG
ca_nad4L_i1_orf329	YP_009112035	48.41	314	2.70105e-89	<i>Fusarium gerlachii</i>	329	LAGLIDADG
ca_nad5_i1_orf537	NP_074944	65.56	543	0	<i>Podospora anserina</i>	537	LAGLIDADG
ca_nad5_i2_orf99	YP_008964961	77.27	44	3.25911e-15	<i>Annulohyphoxylon stygium</i>	99	LAGLIDADG
ca_nad5_i2_orf354	YP_009072328	32.99	388	2.45896e-44	<i>Sclerotinia borealis</i>	354	GIY-YIG
ca_nad5_i2_orf141	AKQ53305	50.81	124	5.9065e-32	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	141	GIY-YIG
ca_nad5_i13_orf302	AAW67497	69.08	304	4.68452e-141	<i>Fusarium oxysporum</i>	302	LAGLIDADG
ca_atp6_i1_orf417	AKQ53315	48.46	421	3.21309e-116	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	417	LAGLIDADG
ca_atp6_i1_orf452	AKQ53315	48.35	424	1.63845e-115	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	452	LAGLIDADG
ca_atp6_i2_orf370	YP_008964995	72.85	372	0	<i>Annulohyphoxylon stygium</i>	370	GIY-YIG

ca_atp6_i1_orf452	YP_009158300	95.38	260	4.59532e-164	<i>Diaporthe longicolla</i>	264	LAGLIDADG
ca_atp6_i1_orf417	AKQ53315	48.46	421	3.21309e-116	<i>Sclerotinia sclerotiorum</i> 1980 <i>UF-70</i>	417	LAGLIDADG
ca_atp6_i1_orf452	AKQ53315	48.35	424	1.63845e-115	<i>Sclerotinia sclerotiorum</i> 1980 <i>UF-70</i>	452	LAGLIDADG
ca_atp6_i3_orf409	XP_003342404	65.69	376	6.10401e-159	<i>Sordaria macrospora k-hell</i>	409	GIY-YIG
ca_atp6_i3_orf237	YP_001427393	74.03	231	3.23166e-113	<i>Parastagonospora nodorum</i> <i>SN15</i>	237	GIY-YIG
ca_IN_orf195	EQD84148	54.17	24	2.90092	<i>Saccharopolyspora erythraea D</i>	195	LAGLIDADG
ca_rns_orf267	AAB84209	92.51	267	0	<i>Cryphonectria parasitica</i>	267	LAGLIDADG
ca_rns_orf512	AAB84210	66.76	358	3.87038e-164	<i>Cryphonectria parasitica</i>	512	LAGLIDADG
ca_rns_orf326	AAB84211	68.90	328	6.15189e-160	<i>Cryphonectria parasitica</i>	326	LAGLIDADG
ca_rns_orf373	AAB84212	94.37	373	0	<i>Cryphonectria parasitica</i>	373	LAGLIDADG
ca_IN_orf297	YP_008964996	55.69	255	1.22603e-83	<i>Annulohyphoxylon stygium</i>	297	GIY-YIG
ca_cox3_i1_orf314	AGN49000	62.88	299	1.87911e-129	<i>Botrytis cinerea B05.10</i>	314	LAGLIDADG
ca_cox3_i1_orf335	YP_005088113	39.32	295	7.7595e-47	<i>Fusarium solani</i>	335	LAGLIDADG
ca_nad6_i2_orf473	YP_007507089	55.66	424	4.60049e-150	<i>Ceratocystis cacaofunesta</i>	473	LAGLIDADG
ca_IN_orf368	YP_008854715	36.08	352	3.5558e-63	<i>Ganoderma sinense</i>	368	LAGLIDADG
ca_IN_orf211	WP_025294344	40.00	35	2.74342	<i>Sphingomonas sanxanigenens</i>	211	LAGLIDADG
ca_IN_orf153	XP_009656850	25.00	84	1.69303	<i>Verticillium dahliae VdLs.17</i>	153	LAGLIDADG
ca_IN_orf248	YP_007507082	34.50	200	2.63005e-15	<i>Ceratocystis cacaofunesta</i>	248	GIY-YIG
ca_rnl_orf318	AKQ53307	49.03	206	2.96557e-58	<i>Sclerotinia sclerotiorum</i> 1980 <i>UF-70</i>	318	GIY-YIG
ca_rnl_orf245	AKM22523	59.17	240	7.94197e-88	<i>Cordyceps militaris</i>	245	GIY-YIG
ca_rnl_orf188	GAO18872	55.68	176	4.33611e-58	<i>Ustilaginoidea virens</i>	188	LAGLIDADG
ca_rnl_orf246	AKM22622	66.29	175	4.46394e-75	<i>Cordyceps militaris</i>	246	LAGLIDADG
ca_rnl_orf455	NP_074929	39.08	325	3.59422e-62	<i>Podospora anserina</i>	455	GIY-YIG
ca_rnl_orf401	ACL27279	44.56	294	9.50933e-78	<i>Ustilago maydis</i>	401	LAGLIDADG
ca_rnl_orf459	YP_007507038	42.48	412	4.55929e-86	<i>Ceratocystis cacaofunesta</i>	459	LAGLIDADG
ca_rnl_orf540	AAC24230	87.74	530	0	<i>Cryphonectria parasitica</i>	540	LAGLIDADG

ca_rnl_orf260	AAC24230	87.60	258	1.00703e-158	<i>Cryphonectria parasitica</i>	260	LAGLIDADG
ca_rnl_orf383	3R7P_A	43.15	336	1.30797e-71	<i>Chain A, The Crystal Structure Of I-ltr</i>	383	LAGLIDADG
ca_IN_orf348	YP_009136815	40.64	342	1.58476e-82	<i>Fusarium culmorum</i>	348	LAGLIDADG
ca_IN_orf730	CDL73348	38.06	402	8.2847e-76	<i>Fusarium pseudograminearum CS5834</i>	730	LAGLIDADG
ca_IN_orf478	YP_007507047	39.65	401	1.976e-75	<i>Ceratocystis cacaofunesta</i>	478	LAGLIDADG
ca_nad1_i1_orf473	NP_074957	61.85	464	0	<i>Podospora anserina</i>	473	GIY-YIG
ca_nad1_i2_orf152	YP_008964989	83.44	157	4.73107e-88	<i>Annulohyphoxylon stygium</i>	152	LAGLIDADG
ca_nad4_i1_orf410	YP_008757687	47.50	400	1.13513e-114	<i>Fusarium circinatum</i>	410	LAGLIDADG
Query (Intron)	Top Accession	Hit	% identity	alignment length	E-value	Description	Query length
cc_IN_orf203	EQD84148	54.17	24	3.15127	<i>Saccharopolyspora erythraea</i>	203	LAGLIDADG
cc_cob_i1_orf361	1703265F	49.16	299	5.98996e-90	<i>Podospora anserina</i>	360	LAGLIDADG
cc_cob_i2_orf344	EYE89922	79.86	288	8.15619e-155	<i>Aspergillus ruber CBS 135680</i>	344	GIY-YIG
cc_cob_i3_orf305	YP_009126715	76.51	315	5.54442e-167	<i>Neurospora crassa OR74A</i>	305	LAGLIDADG
cc_IN_orf103	WP_005699113	26.42	53	5.78733	<i>Haemophilus parainfluenzae HK2019</i>	103	LAGLIDADG
cc_cox1_i1_orf310	XP_007693509	63.40	306	8.59778e-128	<i>Bipolaris oryzae ATCC 44560</i>	310	LAGLIDADG
cc_cox1_i3_orf434	AKQ53319	76.94	425	0	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	434	GIY-YIG
cc_cox1_i2_orf306	YP_004376350	73.29	277	4.95562e-153	<i>Moniliophthora roleri</i>	306	LAGLIDADG
cc_cox1_i4_orf279	YP_008964985	80.99	263	3.95451e-147	<i>Annulohyphoxylon stygium</i>	279	LAGLIDADG
cc_cox1_i5_orf269	AFD95924	75.46	269	1.63384e-146	<i>Talaromyces stipitatus</i>	269	GIY-YIG
cc_cox1_i6_orf428	YP_008964986	77.38	451	0	<i>Annulohyphoxylon stygium</i>	428	GIY-YIG
cc_IN_orf316	KIH86252	38.96	249	2.93745e-52	<i>Sporothrix brasiliensis 5110</i>	316	LAGLIDADG
cc_IN_orf325	YP_008854719	59.39	293	1.05103e-104	<i>Ganoderma sinense</i>	325	GIY-YIG
cc_nad5_i1_orf302	AAW67497	69.08	304	4.68452e-141	<i>Fusarium oxysporum</i>	302	LAGLIDADG
cc_atp6_i1_orf257	YP_001427393	74.62	260	1.23618e-131	<i>Parastagonospora nodorum SN15</i>	257	GIY-YIG
cc_IN_orf203	YP_009158300	95.77	260	2.80965e-164	<i>Diaporthe longicolla</i>	264	LAGLIDADG

cc_IN_orf203	EQD84148	54.17	24	3.15127	<i>Saccharopolyspora erythraea</i>	203	LAGLIDADG
cc_IN_orf245	AKM22523	59.58	240	3.87846e-89	<i>Cordyceps militaris</i>	245	GIY-YIG
cc_rnl_orf246	AKM22622	66.29	175	1.31338e-75	<i>Cordyceps militaris</i>	246	LAGLIDADG
cc_rnl_orf551	AAC24230	88.15	523	0	<i>Cryphonectria parasitica</i>	551	LAGLIDADG
Query id	subject id	% identity	Alignment length	E-value	Description	Query length	
cd_cob_i1_orf364	1703265F	49.16	299	4.53439e-90	<i>Podospora anserina</i>	363	LAGLIDADG
cd_cob_i2_orf350	EYE89922	69.62	339	1.29869e-153	<i>Aspergillus ruber CBS 135680</i>	350	GIY-YIG
cd_cob_i3_orf305	YP_009126715	77.14	315	2.62494e-168	<i>Neurospora crassa OR74A</i>	305	LAGLIDADG
cd_cob_i4_orf256	CAB72450	69.23	221	1.02443e-98	<i>Podospora curvicolla</i>	256	GIY-YIG
cd_cob_i4_orf202	XP_007693966	38.35	206	3.7913e-30	<i>Bipolaris oryzae ATCC 44560</i>	202	GIY-YIG
cd_IN_orf199	CEJ90698	29.17	72	9.63143	<i>Torrubiella hemipterigena</i>	199	LAGLIDADG
cd_IN_orf101	WP_005699113	28.30	53	1.58061	<i>Haemophilus</i>	101	LAGLIDADG
cd_cox1_i1_orf310	XP_007693509	63.40	306	1.14145e-127	<i>Bipolaris oryzae ATCC 44560</i>	310	LAGLIDADG
cd_cox1_i2_orf369	CAA25371	59.67	367	6.01917e-141	<i>Aspergillus nidulans</i>	369	LAGLIDADG
cd_cox1_i3_orf434	AKQ53319	77.41	425	0	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	434	GIY-YIG
cd_cox1_i4_orf294	YP_008964985	75.90	278	1.63718e-141	<i>Annulohyphoxylon stygium</i>	294	LAGLIDADG
cd_cox1_i5_orf269	AFD95924	75.46	269	1.29904e-146	<i>Talaromyces stipitatus</i>	269	GIY-YIG
cd_cox1_i6_orf428	YP_008964986	78.05	451	0	<i>Annulohyphoxylon stygium</i>	428	GIY-YIG
cd_cox2_i1_orf325	YP_008854719	60.41	293	3.59504e-106	<i>Ganoderma sinense</i>	325	GIY-YIG
Cd_cox2_i2_orf459	YP_009072388	80.44	455	0	<i>Sclerotinia borealis</i>	459	GIY-YIG
cd_IN_orf120	YP_009158299	83.67	49	1.20564e-17	<i>Diaporthe longicolla</i>	52	LAGLIDADG
cd_IN_orf130	XP_001802056	40.00	55	2.60677	<i>Parastagonospora nodorum SN15</i>	130	LAGLIDADG
cd_IN_orf459	CCO62245	29.53	359	5.31366e-40	<i>Rhodotorula taiwanensis RS1</i>	459	GIY-YIG
cd_IN_orf137	EMR89155	62.50	40	1.74333e-05	<i>Botrytis cinerea BcDW1</i>	137	LAGLIDADG
cd_nad5_i1_orf486	YP_008964961	68.57	140	3.1618e-56	<i>Annulohyphoxylon stygium</i>	486	LAGLIDADG
cd_IN_orf203	YP_009158300	95.38	260	9.87819e-164	<i>Diaporthe longicolla</i>	264	LAGLIDADG
cd_rns_orf333	AAB84211	78.16	348	0	<i>Cryphonectria parasitica</i>	333	LAGLIDADG

cd_rns_orf171	AAB84212	96.45	169	1.48402e-112	<i>Cryphonectria parasitica</i>	171	LAGLIDADG
cd_rns_orf249	AAB84212	96.45	169	1.48402e-112	<i>Cryphonectria parasitica</i>	171	LAGLIDADG
cd_rns_orf297	YP_008964996	55.69	255	1.22603e-83	<i>Annulohyphoxylon stygium</i>	297	GIY-YIG
cd_nad6_i1_orf551	YP_007507089	54.95	424	5.04389e-148	<i>Ceratocystis cacaofunesta</i>	551	LAGLIDADG
cd_IN_orf383	YP_009136815	39.04	333	1.41708e-63	<i>Fusarium culmorum</i>	383	LAGLIDADG
cd_IN_orf219	XP_011858455	29.46	112	9.54856	<i>Vollenhovia emeryi</i>	219	LAGLIDADG
cd_IN_orf143	WP_048008014	33.96	53	6.40209	<i>Bacillus firmus</i>	143	LAGLIDADG
cd_IN_orf106	YP_009059691	40.00	70	0.000197543	<i>Parasitella parasitica</i>	106	GIY-YIG
cd_IN_orf179	AKM22523	63.07	176	6.93825e-68	<i>Cordyceps militaris</i>	179	GIY-YIG
cd_rnl_orf352	YP_009072317	69.46	239	7.18646e-115	<i>Sclerotinia borealis</i>	352	GIY-YIG
cd_rnl_orf197	GAO18872	56.82	176	3.87308e-58	<i>Ustilaginoidea virens</i>	197	LAGLIDADG
cd_rnl_orf246	AKM22622	65.71	175	2.36427e-74	<i>Cordyceps militaris</i>	246	LAGLIDADG
cd_rnl_orf459	YP_007507038	41.99	412	2.51508e-85	<i>Ceratocystis cacaofunesta</i>	459	LAGLIDADG
cd_rnl_orf551	AAC24230	88.34	523	0	<i>Cryphonectria parasitica</i>	551	LAGLIDADG
cd_rnl_orf486	YP_007507054	38.93	429	5.817e-81	<i>Ceratocystis cacaofunesta</i>	486	LAGLIDADG
cd_IN_orf333	1703265F	43.40	318	2.37845e-83	<i>cytochrome oxidase I intronic ORF</i>	333	LAGLIDADG
cd_IN_orf341	CAA38805	42.81	285	5.44616e-65	<i>Podospora anserina</i>	341	LAGLIDADG
cd_IN_orf126	CAA38805	42.81	285	5.44616e-65	<i>Podospora anserina</i>	126	LAGLIDADG
cd_nad1_i1_orf191	YP_008964988	74.59	181	1.9351e-86	<i>Annulohyphoxylon stygium</i>	191	LAGLIDADG
cd_nad1_i2_orf185	NP_074958	59.32	118	1.92786e-32	<i>Podospora anserina</i>	185	LAGLIDADG
cd_nad1_i2_orf100	XP_007694002	74.16	89	1.20188e-38	<i>Bipolaris oryzae ATCC 44560</i>	100	LAGLIDADG
cd_nad1_i3_orf122	YP_009126720	75.41	122	8.41989e-55	<i>Neurospora crassa OR74A</i>	122	GIY-YIG
cd_nad4_i1_orf432	KIH86252	49.52	420	3.03061e-121	<i>Sporothrix brasiliensis 5110</i>	432	LAGLIDADG
Query (Intron)	Top Accession	Hit % identity	Alignment length	E-value	Description	Query length	
cp_IN_orf460	AMO66506	44.23	104	1.83211e-19	<i>Pyronema omphalodes</i>	460	LAGLIDADG
cp_cob_i1_orf356	1703265F	50.17	299	1.86329e-90	<i>Podospora anserina</i>	356	LAGLIDADG
cp_cob_i2_orf296	YP_009126715	74.43	305	8.7361e-156	<i>Neurospora crassa OR74A</i>	296	LAGLIDADG

cp_cob_i2_orf122	YP_009160660	45.24	42	0.000312056	<i>Hirsutella minnesotensis</i>	122	LAGLIDADG
cp_cob_i3_orf120	CAB72450	72.37	76	1.63084e-28	<i>Podospora curvicolla</i>	120	GIY-YIG
cp_cob_i3_orf201	XP_007693966	38.35	206	8.57381e-29	<i>Bipolaris oryzae ATCC 44560</i>	201	LAGLIDADG
cp_cox1_i1_orf824	YP_009029663	44.44	819	0	<i>Magnusiomyces ingens</i>	824	LAGLIDADG
cp_cox1_i2_orf446	AMO66533	44.67	394	2.18838e-92	<i>Pyronema omphalodes</i>	446	LAGLIDADG
cp_cox1_i3_orf782	NP_043734	48.50	765	0	<i>Allomyces macrogynus</i>	782	LAGLIDADG
cp_cox1_i4_orf393	AKQ53316	73.31	326	3.5926e-172	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	393	GIY-YIG
cp_cox1_i5_orf434	YP_009072338	39.78	279	1.33149e-48	<i>Sclerotinia borealis</i>	434	GIY-YIG
cp_cox1_i5_orf173	YP_008964978	76.61	171	8.62356e-95	<i>Annulohyphoxylon stygium</i>	173	LAGLIDADG
cp_cox1_i6_orf436	AKQ53319	76.06	426	0	<i>Sclerotinia sclerotiorum 1980 UF-70</i>	436	GIY-YIG
cp_cox1_i7_orf310	XP_002839373	62.79	258	1.61779e-96	<i>Tuber melanosporum Mel28</i>	310	LAGLIDADG
cp_cox1_i8_orf108	XP_014550036	62.26	106	9.62981e-32	<i>Bipolaris victoriae FI3</i>	108	GIY-YIG
cp_IN_orf113	KUI52547	72.38	105	8.06574e-46	<i>Valsa mali var. pyri</i>	113	LAGLIDADG
cp_IN_orf160	KUI52547	82.50	160	2.69467e-91	<i>Valsa mali var. pyri</i>	160	LAGLIDADG
cp_nad2_i1_orf473	AGN49028	70.98	386	0	<i>Botrytis cinerea B05.10</i>	473	LAGLIDADG
cp_nad2_i2_orf437	CCC14769	76.11	406	0	<i>Sordaria macrospora k-hell</i>	437	LAGLIDADG
cp_nad2_i3_orf335	XP_007335807	66.98	212	2.34515e-95	<i>Agaricus bisporus var. burnettii JB137-S8</i>	335	LAGLIDADG
cp_nad2_i4_orf788	NP_043734	44.46	767	0	<i>Allomyces macrogynus</i>	788	LAGLIDADG
cp_nad2_i5_orf433	CDL73098	64.76	437	0	<i>Fusarium pseudograminearum CS3427</i>	433	LAGLIDADG
cp_IN_orf414	YP_008757687	48.22	309	1.86954e-90	<i>Fusarium circinatum</i>	414	LAGLIDADG
cp_cox2_i1_orf326	YP_008854719	61.43	293	4.95172e-107	<i>Ganoderma sinense</i>	326	GIY-YIG
cp_cox2_i3_orf112	YP_009072388	86.00	100	2.36543e-49	<i>Sclerotinia borealis</i>	112	LAGLIDADG
cp_cox2_i3_orf282	CDL73554	34.62	286	3.2833e-48	<i>Fusarium culmorum CS7071</i>	282	LAGLIDADG
cp_cox2_i4_orf332	CDL73109	79.23	337	0	<i>Fusarium pseudograminearum CS3427</i>	332	GIY-YIG
cp_IN_orf259	XP_001802056	37.33	75	0.0948753	<i>Parastagonospora nodorum SN15</i>	259	LAGLIDADG

cp_IN_orf414	AMO66509	52.11	213	4.11136e-62	<i>Pyronema omphalodes</i>	414	LAGLIDADG
cp_IN_orf179	AGN49019	59.84	127	3.77332e-40	<i>Botrytis cinerea B05.10</i>	179	GI-YIG
cp_nad5_i1_orf540	NP_074944	64.76	542	0	<i>Podospora anserina</i>	540	LAGLIDADG
cp_nad5_i2orf168	AAO14105	100.00	168	5.23273e-115	<i>Cryphonectria parasitica</i>	168	LAGLIDADG
cp_nad5_i2_orf290	AAO14110	99.63	271	0	<i>Cryphonectria parasitica</i>	290	LAGLIDADG
cp_atp6_i1_orf812	AAF27656	100.00	764	0	<i>Cryphonectria parasitica</i>	812	LAGLIDADG
cp_atp6_i2_orf365	YP_008964995	72.07	376	0	<i>Annulohyphoxylon stygium</i>	365	GIY-YIG
cp_atp6_i3_orf238	YP_001427393	71.86	231	2.81518e-109	<i>Parastagonospora nodorum SN15</i>	238	GIY-YIG
cp_atp6_i3_orf409	XP_003342404	63.30	376	2.06184e-152	<i>Sordaria macrospora k-hell</i>	409	GIY-YIG
cp_IN_orf232	KPP69029	32.84	67	7.24451	<i>Scleropages formosus</i>	232	LAGLIDADG
cp_rns_orf285	AAB84209	100.00	285	0	<i>Cryphonectria parasitica</i>	285	LAGLIDADG
cp_rns_orf509	AAB84210	98.55	415	0	<i>Cryphonectria parasitica</i>	509	LAGLIDADG
cp_rns_orf151	AAB84211	96.40	139	1.18862e-88	<i>Cryphonectria parasitica</i>	151	LAGLIDADG
cp_rns_orf416	AAB84212	100.00	416	0	<i>Cryphonectria parasitica</i>	416	LAGLIDADG
cp_IN_orf106	YP_008964996	50.51	99	5.86349e-18	<i>Annulohyphoxylon stygium</i>	106	LAGLIDADG
cp_cox3_i2_orf318	AGN49000	63.91	302	2.57071e-129	<i>Botrytis cinerea B05.10</i>	318	LAGLIDADG
cp_cox3_i4_orf439	YP_009136869	65.44	408	2.99994e-178	<i>Fusarium culmorum</i>	439	LAGLIDADG
cp_IN_orf427	YP_009136815	40.48	331	3.80221e-64	<i>Fusarium culmorum</i>	427	LAGLIDADG
cp_IN_orf359	YP_009072328	44.31	255	2.9427e-47	<i>Sclerotinia borealis</i>	359	GIY-YIG
cp_IN_orf282	XP_007335271	44.29	280	2.77259e-68	<i>Agaricus bisporus var. burnettii JB137-S8</i>	282	LAGLIDADG
cp_IN_orf247	YP_009072317	71.07	242	4.28782e-121	<i>Sclerotinia borealis</i>	247	GIY-YIG
cp_rnl_orf320	CAB72450	45.19	239	2.21001e-44	<i>Podospora curvicolla</i>	320	GIY-YIG
cp_rnl_orf387	CCQ18563	43.11	283	5.47906e-67	<i>Ganoderma lucidum</i>	387	LAGLIDADG
cp_rnl_orf459	NP_074929	39.64	333	9.5764e-67	<i>Podospora anserina</i>	459	GIY-YIG
cp_rnl_orf246	AKM22622	66.29	175	7.87127e-77	<i>Cordyceps militaris</i>	246	LAGLIDADG
cp_rnl_orf194	GAO18872	55.37	177	2.87646e-54	<i>Ustilaginoidea virens</i>	194	LAGLIDADG
cp_rnl_orf851	AAC24230	100.00	851	0	<i>Cryphonectria parasitica</i>	851	LAGLIDADG

cp_rnl_orf268	YP_008964948	62.74	263	2.13196e-104	<i>Annulohypoxyton stygium</i>	268	LAGLIDADG
cp_nad1_i1_orf211	CCC14770	35.96	203	5.23672e-29	<i>Sordaria macrospora k-hell</i>	211	LAGLIDADG
cp_nad1_i1_orf131	YP_008964988	53.33	135	9.04755e-38	<i>Annulohypoxyton stygium</i>	131	LAGLIDADG