

1 **Supplementary Table 1** – Unique proteins identified in the DMSO group by ESI-LC-MS/MS

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Protein Name	ID (Uniprot)	Organism Reference	Cellular Compartment
<u>Transport</u>			
Succinate dehydrogenase [ubiquinone] cytochrome b subunit, mitochondrial	P33421	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
Anion/proton exchange transporter GEF1	P37020	<i>Saccharomyces cerevisiae</i>	Golgi apparatus membrane
Sodium transport ATPase 1	P13587	<i>Saccharomyces cerevisiae</i>	Cell membrane
Vacuolar protein sorting-associated protein 16	Q96QK1	<i>Saccharomyces cerevisiae</i>	Vacuole
V-type proton ATPase catalytic subunit A	P32563	<i>Saccharomyces cerevisiae</i>	Vacuole membrane
Protein CASP	P34237	<i>Saccharomyces cerevisiae</i>	Golgi apparatus membrane
Exportin-1	P30822	<i>Saccharomyces cerevisiae</i>	Cytoplasm
Na(+)/H(+) antiporter	B3LT99	<i>Saccharomyces cerevisiae</i>	Membrane
ATP-dependent permease AUS1	Q08409	<i>Saccharomyces cerevisiae</i>	Membrane
Histidine permease	P06775	<i>Saccharomyces cerevisiae</i>	Membrane
ATPase GET3	Q12154	<i>Saccharomyces cerevisiae</i>	Cytoplasm
Protein SLY1	P22213	<i>Saccharomyces cerevisiae</i>	Cytoplasm
Ferric reductase transmembrane component 5	Q12473	<i>Saccharomyces cerevisiae</i>	Cytoplasm

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29	Vacuolar membrane-associated protein IML1	P47170	<i>Saccharomyces cerevisiae</i>	Cytoplasm
30				
31				
32	Magnesium transporter	W9KFF0	<i>Fusarium oxysporum</i>	Mitochondrion inner membrane
33				
34	RanBD1 domain-containing protein	A0A0J9UT92	<i>Fusarium oxysporum</i>	Nucleus
35				
36	Bifunctional cytochrome P450/NADPH--P450 reductase	Q9Y8G7	<i>Fusarium oxysporum</i>	Cytoplasm
37				
38				
39	GPI inositol-deacylase	Q5AYC8	<i>Emericella nidulans</i>	Endoplasmic reticulum membrane
40				
41	Serine/threonine-protein kinase KIN82	P25341	<i>Saccharomyces cerevisiae</i>	Cytoplasm
42				
43				
44	Biogenesis of lysosome-related organelles complex 1 subunit	Q75AC2	<i>Ashbya gossypii</i>	Cytoplasmic vesicle
45				
46				
47	Mitochondrial inner membrane magnesium transporter	Q4I298	<i>Gibberella zeae</i>	Mitochondrion inner membrane
48				
49				
50	Nuclear distribution protein nudE homolog 1	Q4P0N6	<i>Ustilago maydis</i>	Cytoplasm
51				
52				
53	Pheromone-regulated membrane protein 9	P39551	<i>Saccharomyces cerevisiae</i>	Membrane
54				
55				
56	Nucleoporin NUP56	G0S8I1	<i>Chaetomium thermophilum</i>	Nuclear pore complex
57				
58	Polyamine transporter 2	P53283	<i>Saccharomyces cerevisiae</i>	Membrane
59				
60	Nuclear protein localization protein 4	Q6BRJ9	<i>Debaryomyces hansenii</i>	Cytoplasm
61				
62	Vacuolar protein sorting/targeting protein 10	Q5AS50	<i>Emericella nidulans</i>	Golgi apparatus
63				
64	Mechanosensitive ion channel protein Msy1	O74839	<i>Schizosaccharomyces pombe</i>	Endoplasmic reticulum membrane

65				
66	COPII coat assembly protein SEC16	Q6CEV2	<i>Yarrowia lipolytica</i>	Endoplasmic reticulum membrane
67				
68	Mitochondrial glycine transporter	A3M019	<i>Scheffersomyces stipites</i>	Mitochondrion inner membrane
69				
70	GTP-binding protein gtr1	O74824	<i>Schizosaccharomyces pombe</i>	Vacuole membrane
71				
72	V-type proton ATPase subunit a	Q01290	<i>Neurospora crassa</i>	Vacuole membrane
73				
74	Phosphate metabolism protein 7	Q12252	<i>Saccharomyces cerevisiae</i>	Membrane
75				
76				
77	<u>Cell Function and Structure</u>			
78				
79	Nuclear migration protein NUM1	Q00402	<i>Saccharomyces cerevisiae</i>	Bud tip
80				
81	Peroxisomal ATPase PEX6	P33760	<i>Saccharomyces cerevisiae</i>	Peroxisome membrane
82				
83	Killer toxin-resistance protein 5	P22023	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum
84				
85	Condensin complex subunit 3	Q06680	<i>Saccharomyces cerevisiae</i>	Nucleus
86				
87				
88	Altered inheritance of mitochondria	P40451	<i>Saccharomyces cerevisiae</i>	Vacuole membrane
89	protein 20			
90				
91	GTPase-interacting component 2	P38785	<i>Saccharomyces cerevisiae</i>	Bud neck
92				
93	Non-SCF-type F-box protein ROY1	Q04847	<i>Saccharomyces cerevisiae</i>	Cytoplasm
94				
95	MICOS complex subunit MIC19	P43594	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
96				
97	Nucleoporin ASM4	Q05166	<i>Saccharomyces cerevisiae</i>	Nucleus
98				
99	HMG2-induced ER-remodeling protein 1	Q12276	<i>Saccharomyces cerevisiae</i>	Cytoplasm
100				
101	Morphogenesis-related protein MSB1	P21339	<i>Saccharomyces cerevisiae</i>	Cellular bud neck

102				
103	1,3-beta-glucan synthase component FKS1	P38631	<i>Saccharomyces cerevisiae</i>	Mitochondrion
104				
105	Nuclear fusion protein BIK1	P11709	<i>Saccharomyces cerevisiae</i>	Cytoplasm
106				
107	Cell division control protein 48	P25694	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum
108				
109	Midasin	A0A2H3T3C5	<i>Fusarium oxysporum</i>	Nucleus
110				
111	Dynein heavy chain, cytoplasmic	A0A0D2XQR5	<i>Fusarium oxysporum</i>	Cytoplasm
112				
113	Dynamin-type G domain-containing protein	A0A2H3STJ2	<i>Fusarium oxysporum</i>	Nucleus/Cytoplasm
114				
115				
116	Spindle pole body component	A0A0D2XX36	<i>Fusarium oxysporum</i>	Cytoplasm
117				
118	Protein sts5	O74454	<i>Saccharomyces pombe</i>	Cytoplasm
119				
120	Kinesin-like protein bimC	P17120	<i>Emericella nidulans</i>	Cytoplasm
121				
122	Myosin-1	A7TDZ8	<i>Vanderwaltozyma polyspora</i>	Cytoplasm
123				
124	Actin cytoskeleton-regulatory complex protein E	L7IIY8	<i>Magnaporthe oryzae</i>	Membrane
125				
126				
127	Vacuolar protein sorting-associated protein 3	P23643	<i>Saccharomyces cerevisiae</i>	Cytoplasm
128				
129				
130	Chitin deacetylase 3	P82476	<i>Cryptococcus neoformans</i>	Membrane
131				
132	Actin-regulating kinase PRK1	Q5A961	<i>Candida albicans</i>	Cytoplasm
133				
134	Karyogamy meiotic segregation protein 1	P87245	<i>Schizosaccharomyces pombe</i>	Cytoplasm
135				
136				
137	Target of rapamycin complex	O74184	<i>Schizosaccharomyces pombe</i>	Cytoplasm

138	subunit wat1			
139				
140	ATP-dependent DNA helicase CHL1	Q750G3	<i>Ashbya gossypii</i>	Nucleus
141				
142	Separin	P18296	<i>Schizosaccharomyces pombe</i>	Nucleus
143				
144	<u>Energetic metabolism</u>			
145				
146				
147	ATP synthase subunit d, mitochondrial	P30902	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
148				
149	Glyceraldehyde-3-phosphate dehydrogenase 2	P00358	<i>Saccharomyces cerevisiae</i>	Cytoplasm
150				
151				
152	6-phosphogluconate dehydrogenase, decarboxylating 1	P38720	<i>Saccharomyces cerevisiae</i>	Cytoplasm
153				
154				
155	FAD-linked oxidoreductase chry5	I1S3L1	<i>Gibberella zeae</i>	Mitochondrion
156				
157	D-2-hydroxyglutarate—pyruvate transhydrogenase DLD3	P39976	<i>Saccharomyces cerevisiae</i>	Cytoplasm
158				
159				
160				
161	NADH-ubiquinone oxidoreductase 49 kDa subunit, mitochondrial	P22142	<i>Neurospora crassa</i>	Mitochondrion inner membrane
162				
163				
164	Cytochrome c oxidase assembly protein COX16, mitochondrial	Q4I8P5	<i>Gibberella zeae</i>	Mitochondrion inner membrane
165				
166				
167				
168	<u>Protein Folding and metabolism</u>			
169				
170	26S proteasome regulatory subunit RPN1	P38764	<i>Saccharomyces cerevisiae</i>	Cytoplasm
171				
172	Elongation factor 2	P32324	<i>Saccharomyces cerevisiae</i>	Cytoplasm
173				
174	26S proteasome regulatory subunit RPN5	Q12250	<i>Saccharomyces cerevisiae</i>	Proteasome

175				
176	Tyrosine-protein phosphatase 3	P40048	<i>Saccharomyces cerevisiae</i>	Cytoplasm
177				
178	U3 small nucleolar RNA-associated protein MPP10	P47083	<i>Saccharomyces cerevisiae</i>	Nucleus
179				
180				
181	ERAD-associated E3 ubiquitin-protein ligase component HRD3	P47083	<i>Saccharomyces cerevisiae</i>	Endoplasmatic reticulum
182				
183				
184	Chromosome instability protein 1	P40987	<i>Saccharomyces cerevisiae</i>	Endoplasmatic reticulum
185				
186	Kexin	P13134	<i>Saccharomyces cerevisiae</i>	Golgi apparatus
187				
188	Peptide-N(4)-(N-acetyl-beta-glucosaminy) asparagine amidase	Q02890	<i>Saccharomyces cerevisiae</i>	Cytoplasm
189				
190				
191	Mitochondrial chaperone BCS1	P32839	<i>Saccharomyces cerevisiae</i>	Cytoplasm
192				
193	Serine/threonine-protein kinase AKL1	P38080	<i>Saccharomyces cerevisiae</i>	Cellular bud neck
194				
195	ER membrane protein complex subunit 6	P25574	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
196				
197				
198	Protein CSF1	Q12150	<i>Saccharomyces cerevisiae</i>	Membrane
199				
200	Assembly chaperone of RPL4	Q03771	<i>Saccharomyces cerevisiae</i>	Cytoplasm
201				
202	Protein TMA108	P40462	<i>Saccharomyces cerevisiae</i>	Cytoplasm
203				
204	Protein ASI1	P53895	<i>Saccharomyces cerevisiae</i>	Nucleus inner membrane
205				
206	F-box protein YLR352W	Q06479	<i>Saccharomyces cerevisiae</i>	SCF ubiquitin ligase complex
207				
208	Peptide hydrolase	X0CEB5	<i>Fusarium oxysporum</i>	Mitochondrion
209				
210	AAA domain-containing protein	A0A0D2Y4N3	<i>Fusarium oxysporum</i>	Nucleus

211				
212	TYR_PHOSPHATASE_2	A0A6M7ZMH6	<i>Fusarium oxysporum</i>	Cytoplasm
213	domain-containing protein			
214				
215	Peptidase_M14 domain-	W9KWL0	<i>Fusarium oxysporum</i>	Extracellular region
216	containing protein			
217				
218	Protein kinase domain-	A0A0D2XQE2	<i>Fusarium oxysporum</i>	Nucleus
219	containing protein			
220				
221	UBA_e1_C domain-	F9FV89	<i>Fusarium oxysporum</i>	Cytoplasm
222	containing protein			
223				
224	Clustered mitochondria protein	A0A2H3TIH9	<i>Fusarium oxysporum</i>	Cytoplasm
225	homolog			
226				
227	GPI ethanolamine phosphate	A0A6M7ZB90	<i>Fusarium oxysporum</i>	Endoplasmic reticulum membrane
228	transferase 2			
229				
230	5-aminolevulinate synthase	A0A0D2XE20	<i>Fusarium oxysporum</i>	Mitochondrion
231				
232	Eukaryotic translation initiation	Q4P0P0	<i>Ustilago maydis</i>	Cytoplasm
233	factor 3 subunit M			
234				
235	Protein rot1	A6S3W1	<i>Botryotinia fuckeliana</i>	Endoplasmic reticulum membrane
236				
237	Protein SUE1, mitochondrial	Q06524	<i>Saccharomyces cerevisiae</i>	Mitochondrion
238				
239	Neutral protease 2 homolog	E3QWD3	<i>Colletotrichum graminicola</i>	Secreted
240	MGG_10927			
241				
242	Uba3-binding protein but2	P87167	<i>Schizosaccharomyces pombe</i>	Nucleus
243				
244	Ubiquinone biosynthesis protein	B6QTE1	<i>Talaromyces marneffeii</i>	Mitochondrion inner membrane
245	coq4, mitochondrial			
246				

247	Eukaryotic translation initiation	Q1E6D3	<i>Coccidioides immitis</i>	Cytoplasm
248	factor 3 subunit K			
249				
250	7-dimethylallyltryptophan synthase	Q4WYG3	<i>Neosartorya fumigata</i>	Cytoplasm
251				
252	N-(5-amino-5-carboxypentanoyl)-	P27742	<i>Emericella nidulans</i>	Cytoplasm
253	L-cysteinyl-D-valine synthase			
254				
255	Methionine aminopeptidase 2-2	B6QD96	<i>Talaromyces marneffeii</i>	Cytoplasm
256				
257	Carboxypeptidase Y homolog A	C5P212	<i>Coccidioides posadasii</i>	Vacuole
258				
259	<u>DNA and RNA binding</u>			
260				
261	tRNA (guanosine(18)-2'-O)-methyltransferase	P38238	<i>Saccharomyces cerevisiae</i>	Cytoplasm
262				
263	Transposon Ty3-G Gag-Pol polyprotein	Q12173	<i>Saccharomyces cerevisiae</i>	Cytoplasm
264				
265	Transcription elongation factor SPT5	P27692	<i>Saccharomyces cerevisiae</i>	Nucleus
266				
267	54S ribosomal protein L49, mitochondrial	P40858	<i>Saccharomyces cerevisiae</i>	Mitochondrion
268				
269	Nuclear localization sequence-binding protein	P27476	<i>Saccharomyces cerevisiae</i>	Nucleus
270				
271	Mediator of RNA polymerase II	P32569	<i>Saccharomyces cerevisiae</i>	Nucleus
272	transcription subunit 15			
273				
274	RNA cytidine acetyltransferase	P53914	<i>Saccharomyces cerevisiae</i>	Nucleus
275				
276	Y' element ATP-dependent helicase	O13559	<i>Saccharomyces cerevisiae</i>	Cytoplasm
277	protein 1 copy 1			
278				
279	Pre-mRNA-splicing factor ATP-dependent	P20095	<i>Saccharomyces cerevisiae</i>	Nucleus
280	RNA helicase-like protein			
281				
282	Chromosome transmission fidelity	P49956	<i>Saccharomyces cerevisiae</i>	Nucleus

283	protein 18			
284				
285	25S rRNA (adenine(645)-N(1))-	P38961	<i>Saccharomyces cerevisiae</i>	Nucleus
286	Methyltransferase			
287				
288	DNA replication ATP-dependent	P38859	<i>Saccharomyces cerevisiae</i>	Nucleus
289	helicase/nuclease DNA2			
290				
291	Ribonuclease P protein subunit RPR2	P40571	<i>Saccharomyces cerevisiae</i>	Nucleus
292				
293	DNA-directed RNA polymerase subunit	A0A8J5TW36	<i>Saccharomyces cerevisiae</i>	Nucleus
294				
295	Zn(2)-C6 fungal-type	X0CN47	<i>Fusarium oxysporum</i>	Nucleus
296	domain-containing protein			
297				
298	Fungal_trans domain-	W9JP90	<i>Fusarium oxysporum</i>	Nucleus
299	containing protein			
300				
301	40S ribosomal protein S1	W9J4B8	<i>Fusarium oxysporum</i>	Cytoplasm
302				
303	RNA helicase	A0A420QQN4	<i>Fusarium oxysporum</i>	Ribonucleoprotein complex
304				
305	54S ribosomal protein L31,	A0A6M7ZGN8	<i>Fusarium oxysporum</i>	Mitochondrion
306	mitochondrial			
307				
308	Small nuclear ribonucleoprotein	W9J1T5	<i>Fusarium oxysporum</i>	Nucleus
309	Sm D2			
310				
311	U3 small nucleolar RNA-	W9KN02	<i>Fusarium oxysporum</i>	Nucleus
312	associated protein 10			
313				
314	DNA polymerase gamma	P15801	<i>Saccharomyces cerevisiae</i>	Mitochondrion
315				
316	54S ribosomal protein YmL6,	P51998	<i>Saccharomyces cerevisiae</i>	Mitochondrion
317	Mitochondrial			
318				

319	GTP:AMP phosphotransferase, Mitochondrial	P26364	<i>Saccharomyces cerevisiae</i>	Mitochondrion matrix
320				
321				
322	ATPase synthesis protein 25, mitochondrial	A1DIN7	<i>Neosartorya fischeri</i>	Mitochondrion inner membrane
323				
324				
325	RNA exonuclease 3	Q4WYA1	<i>Neosartorya fumigata</i>	Nucleus
326				
327	Cytoplasmic tRNA 2- thiolation protein 1	Q5AML2	<i>Candida albicans</i>	Cytoplasm
328				
329				
330	DNA (cytosine-5-)- methyltransferase DMT5	G2WR64	<i>Verticillium dahliae</i>	Nucleus
331				
332				
333				
334	Transcription elongation factor SPT5	P0CR71	<i>Cryptococcus neoformans</i>	Nucleus
335				
336				
337	ATP-dependent RNA helicase DBP7	P0CQ95	<i>Cryptococcus neoformans</i>	Nucleus
338				
339				
340	Protein pyrABCN	Q08548	<i>Emmericella nidulans</i>	Cytoplasm
341				
342	ATPase synthesis protein 25, mitochondrial	Q09726	<i>Schizosaccharomyces pombe</i>	Mitochondrion inner membrane
343				
344				
345	Crossover junction endonuclease MUS81	Q04149	<i>Saccharomyces cerevisiae</i>	Nucleus
346				
347				
348	Nonsense-mediated mRNA decay protein 2	P38798	<i>Saccharomyces cerevisiae</i>	Cytoplasm
349				
350	Endoribonuclease YSH1	Q4PEJ3	<i>Ustilago maydis</i>	Nucleus
351				
352	mRNA-capping enzyme subunit alpha	Q01159	<i>Saccharomyces cerevisiae</i>	Nucleus
353				
354	Protein BFR2	Q6FSD4	<i>Candida glabrata</i>	Nucleus

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356				
357	<u>Lipid Metabolism</u>			
358				
359	Lysophospholipid acyltransferase	Q08548	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
360				
361	Oxysterol-binding protein homolog 3	P38713	<i>Saccharomyces cerevisiae</i>	Cytoplasm
362				
363	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase 1	P32383	<i>Fusarium oxysporum</i>	Chromosome, centromeric region
364				
365				
366	Inositol-3-phosphate synthase	P11986	<i>Saccharomyces cerevisiae</i>	Cytoplasm
367				
368	Phosphatidyl-N-methylethanolamine N-methyltransferase	P05375	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
369				
370				
371	Sphingosine-1-phosphate lyase	Q05567	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
372				
373	Cardiolipin synthase (CMP-forming)	Q07560	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
374				
375	Carrier domain-containing protein	A0A420REA3	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum
376				
377	NADPH--cytochrome P450 reductase	A0A3L6P0D2	<i>Fusarium oxysporum</i>	Endoplasmic reticulum
378				
379	GP-PDE domain-containing protein	A0A8H4ZPR7	<i>Fusarium oxysporum</i>	Nucleus
380				
381	Phosphatidylethanolamine N-methyltransferase	C5GN10	<i>Ajellomyces dermatitidis</i>	Endoplasmic reticulum membrane
382				
383				
384	O-acyltransferase ausQ	A0A1U8QLK0	<i>Emericella nidulans</i>	Nucleus
385				
386	Lipoyl synthase, mitochondrial	A3GGJ5	<i>Scheffersomyces stipitis</i>	Mitochondrion
387				
388	Lipase 5	Q9P8W0	<i>Candida albicans</i>	Secreted
389				
390	Lovastatin diketide	Q9Y7D5	<i>Aspergillus terreus</i>	Unknown

391	synthase lovF			
392				
393	Increased rDNA silencing	Q6FJW0	<i>Candida glabrata</i>	Nucleus
394	Protein 4			
395				
396	3-hydroxy-3-methylglutaryl-	B2KX91	<i>Ganoderma lucidum</i>	Nucleus
397	coenzyme A reductase			
398				
399	Acyl-protein thioesterase 1	Q12354	<i>Saccharomyces cerevisiae</i>	Cytoplasm
400				
401	Hydroxymethylglutaryl-	K7PL94	<i>Ganoderma lucidum</i>	Cytoplasm
402	CoA synthase			
403				
404	Lipoyl synthase, mitochondrial	P0CH68	<i>Candida albicans</i>	Mitochondrion
405				
406	FAD-linked oxidoreductase dpmaF	P9WEY2	<i>Metarhizium anisopliae</i>	Cytoplasm
407				
408	Dihydroxyacetone kinase	O74192	<i>Komagataella pastoris</i>	Cytoplasm
409				
410	Acetyl-CoA carboxylase dmxL1	A0A4P8DJE6	<i>Cryptosporiopsis sp.</i>	Nucleus
411				
412	Acetyl-coenzyme A synthetase	P16929	<i>Neurospora crassa</i>	Cytoplasm
413				
414	Acyl-coenzyme A oxidase	Q756A9	<i>Ashbya gossypii</i>	Peroxisome
415				
416				
417	<u>Carbohydrate metabolism</u>			
418				
419	Mannitol dehydrogenase 2	P0CX09	<i>Saccharomyces cerevisiae</i>	Cytoplasm
420				
421	Alpha-L-rhamnosidase	A0A2H3TSB5	<i>Fusarium oxysporum</i>	Cytoplasm
422				
423	GH16 domain-containing protein	A0A8H5A268	<i>Fusarium oxysporum</i>	Mitochondrion
424				
425	alpha-1,2-Mannosidase	A0A6M7YP62	<i>Fusarium oxysporum</i>	Membrane
426				

427	Glycerol-3-phosphate dehydrogenase	W9IWZ5	<i>Fusarium oxysporum</i>	glycerol-3-phosphate dehydrogenase complex
428	[NAD(+)]			
429				
430	Glyco_transf_28 domain-	A0A8H6LSD4	<i>Fusarium oxysporum</i>	Cytoplasm
431	containing protein			
432				
433	UDP-glucose 4-epimerase	W9JR32	<i>Fusarium oxysporum</i>	Cytoplasm
434				
435	Alpha-L-arabinofuranosidase	B6F261	<i>Fusarium oxysporum</i>	Secreted
436				
437	Cellulase domain-containing protein	W9I5E6	<i>Fusarium oxysporum</i>	Membrane
438				
439	Glycerol-3-phosphate dehydrogenase	P41911	<i>Saccharomyces cerevisiae</i>	Cytoplasm
440	[NAD(+)] 2, mitochondrial			
441				
442	Endochitinase 3 (Fragment)	Q6QDR4	<i>Metarhizium anisopliae</i>	Secreted
443				
444	Lactam utilization protein lamB	P38096	<i>Emericella nidulans</i>	Cytoplasm
445				
446	<u>Regulation Factor or Signaling</u>			
447				
448	Serine/threonine-protein kinase PTK2/STK2	P47116	<i>Saccharomyces cerevisiae</i>	Nucleus
449				
450	Regulator of Ty1 transposition protein 103	Q05543	<i>Saccharomyces cerevisiae</i>	Nucleus
451				
452	Radiation-sensitive protein 28	Q12021	<i>Saccharomyces cerevisiae</i>	Nucleus
453				
454	GATA-type domain-containing protein	W9KH05	<i>Fusarium oxysporum</i>	Nucleus
455				
456	Ino eighty subunit 2	P40154	<i>Saccharomyces cerevisiae</i>	Nucleus
457				
458	Clustered mitochondria protein 1	Q03690	<i>Saccharomyces cerevisiae</i>	Cytoplasm
459				
460	DNA cross-link repair protein PSO2/SNM1	P30620	<i>Saccharomyces cerevisiae</i>	Nucleus
461				
462	Protein SST2	P11972	<i>Saccharomyces cerevisiae</i>	Membrane

463				
464	Aminodeoxychorismate synthase	P37254	<i>Saccharomyces cerevisiae</i>	Cytoplasm
465				
466	Transcription initiation factor	P46677	<i>Saccharomyces cerevisiae</i>	Nucleus
467	TFIID subunit 1			
468				
469	NuA3 HAT complex	Q12311	<i>Saccharomyces cerevisiae</i>	Nucleus
470	component NTO1			
471				
472	Protein phosphatase PP2A	P31383	<i>Saccharomyces cerevisiae</i>	Cytoplasm/ Nucleus
473	regulatory subunit A			
474				
475	Tyrosyl-DNA phosphodiesterase 1	P38319	<i>Saccharomyces cerevisiae</i>	Cytoplasm/ Nucleus
476				
477				
478	Silencing boundary-establishment	P25659	<i>Saccharomyces cerevisiae</i>	Nucleus
479	protein FUB1			
480				
481				
482	E3 ubiquitin-protein ligase complex	P32828	<i>Saccharomyces cerevisiae</i>	Nucleus
483	SLX5-SLX8 subunit SLX5			
484				
485	Respiration factor 2	P46974	<i>Saccharomyces cerevisiae</i>	Nucleus
486				
487	APC/C-CDH1 modulator 1	Q08981	<i>Saccharomyces cerevisiae</i>	Nucleus
488				
489	Ribosome-interacting GTPase 1	P53295	<i>Saccharomyces cerevisiae</i>	Cytoplasm
490				
491	Casein kinase II subunit beta'	P43639	<i>Saccharomyces cerevisiae</i>	Cytoplasm/Nucleus
492				
493	Type 1 phosphatases regulator YPI1	P43587	<i>Saccharomyces cerevisiae</i>	Nucleus
494				
495	DNA repair protein XRS2	P33301	<i>Saccharomyces cerevisiae</i>	Nucleus
496				
497	Regulatory protein SWI4	P25302	<i>Saccharomyces cerevisiae</i>	Nucleus
498				

499	SWIRM domain-containing	P28003	<i>Saccharomyces cerevisiae</i>	Nucleus
500	protein FUN19			
501				
502	Cytosolic Fe-S cluster assembly	P40558	<i>Saccharomyces cerevisiae</i>	Nucleus
503	factor CFD1			
504				
505	F-box protein COS111	P38308	<i>Saccharomyces cerevisiae</i>	Mitochondrion
506				
507	HDA1 complex subunit 2	Q06629	<i>Saccharomyces cerevisiae</i>	Nucleus
508				
509	Serine/threonine-protein kinase	F9G3R4	<i>Saccharomyces cerevisiae</i>	Chromosome
510	Tel1			
511				
512	1-phosphatidylinositol 4-kinase	W9LB23	<i>Fusarium oxysporum</i>	Nucleus/Cytoplasm
513				
514	RFX-type winged-helix domain-	W9KMD6	<i>Fusarium oxysporum</i>	Nucleus
515	containing protein			
516				
517	Histone deacetylase	A0A0D2YC83	<i>Fusarium oxysporum</i>	Nucleus
518				
519	INCENP_ARK-bind domain-	W9KH71	<i>Fusarium oxysporum</i>	Nucleus
520	containing protein			
521				
522	Phosphatidylinositol	A0A0D2XHC6	<i>Fusarium oxysporum</i>	Nucleus
523	3-kinase VPS34			
524				
525	Polyadenylate-binding protein	W9I1Q9	<i>Fusarium oxysporum</i>	Cytoplasm
526				
527				
528	BZIP domain-containing protein	A0A6M7Z7J4	<i>Fusarium oxysporum</i>	Nucleus
529				
530	26S proteasome regulatory	W9KBT4	<i>Fusarium oxysporum</i>	Proteosoma
531	subunit RPN1			
532				
533	Mediator of RNA polymerase II	A0A0D2XC79	<i>Fusarium oxysporum</i>	Nucleus
534	transcription subunit 5			

535				
536	Histone transcription regulator	Q4IFH8	<i>Gibberella zeae</i>	Nucleus
537	3 homolog			
538				
539	Mediator of RNA polymerase II	Q5AEN6	<i>Candida albicans</i>	Nucleus
540	transcription subunit 7			
541				
542	Guanine nucleotide-binding	O74227	<i>Cochliobolus heterostrophus</i>	heterotrimeric G-protein complex
543	protein subunit			
544				
545	Multiprotein-bridging factor 1	Q52BY4	<i>Magnaporthe oryzae</i>	Nucleus
546				
547	CCR4-Not complex 3'-5'-	Q9C2R2	<i>Neurospora crassa</i>	Nucleus
548	exoribonuclease subunit Ccr4			
549				
550	Transcriptional regulatory protein PHO23	P50947	<i>Saccharomyces cerevisiae</i>	Nucleus
551				
552	Protein kinase C-like	P87253	<i>Neurospora crassa</i>	Cell septum
553				
554	Signal recognition particle	P36057	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
555	receptor subunit beta			
556				
557	Cutinase transcription factor 1 alpha	P52958	<i>Fusarium vanettenii</i>	Nucleus
558				
559	TATA-binding protein-associated	P32333	<i>Saccharomyces cerevisiae</i>	Nucleus
560	factor mot1			
561				
562	EKC/KEOPS complex	B7XIB8	<i>Enterocytozoon bieneusi</i>	Chromosome
563	subunit BUD32			
564				
565	GPI ethanolamine phosphate	Q6CW36	<i>Kluyveromyces lactis</i>	Endoplasmic reticulum membrane
566	transferase 1			
567				
568	<u>Transcription regulation</u>			
569				
570	Transcription factor CSR2	Q12734	<i>Saccharomyces cerevisiae</i>	Nucleus

571				
572	MFS domain-containing protein	W9KH71	<i>Fusarium oxysporum</i>	Cytoplasm
573				
574	Mediator of RNA polymerase II	Q4PAB8	<i>Ustilago maydis</i>	Nucleus
575	transcription subunit 5			
576				
577				
578	<u>Cell division</u>			
579				
580	Anaphase-promoting complex	P09798	<i>Saccharomyces cerevisiae</i>	Nucleus
581	subunit CDC16			
582				
583	<u>Amino acid metabolism</u>			
584				
585	Glycine dehydrogenase (decarboxylating),	P26969	<i>Saccharomyces cerevisiae</i>	Mitochondrion
586	mitochondrial			
587				
588	Pyruvate decarboxylase isozyme 3	P11986	<i>Saccharomyces cerevisiae</i>	Cytoplasm
589				
590	Cystathionine beta-synthase	P32582	<i>Saccharomyces cerevisiae</i>	Cytoplasm
591				
592	Acetolactate synthase small subunit,	P25605	<i>Saccharomyces cerevisiae</i>	Mitochondrion
593	mitochondrial			
594				
595	Pyruvate decarboxylase isozyme 2	P16467	<i>Saccharomyces cerevisiae</i>	Cytoplasm
596				
597	Alanine--tRNA ligase	W9L4A1	<i>Fusarium oxysporum</i>	Mitochondrion
598				
599	Imidazoleglycerol-phosphate	W9J9C7	<i>Fusarium oxysporum</i>	Mitochondrion
600	dehydratase			
601				
602	D-3-phosphoglycerate	W9KMP9	<i>Fusarium oxysporum</i>	Cytoplasm
603	dehydrogenase			
604				
605	C-1-tetrahydrofolate synthase,	O43007	<i>Saccharomyces pombe</i>	Mitochondrion
606	mitochondrial			

607				
608	Arginine biosynthesis bifunctional	Q6C627	<i>Yarrowia lipolytica</i>	Mitochondrion
609	protein ArgJ, mitochondrial			
610				
611	Methylthioribulose-1-phosphate	B6QQ13	<i>Talaromyces marneffeii</i>	Cytoplasm
612	dehydratase			
613				
614	Pentafunctional AROM polypeptide	B2B223	<i>Podospora anserina</i>	Cytoplasm
615				
616	Copper transport protein	P25355	<i>Saccharomyces cerevisiae</i>	Cytoplasm
617				
618	3-isopropylmalate dehydratase	Q74ZM9	<i>Ashbya gossypii</i>	Cytoplasm
619				
620	Histidine biosynthesis trifunctional	O74712	<i>Candida albicans</i>	Cytoplasm
621	protein			
622				
623	Arginine biosynthesis bifunctional	A0A5N6H9B7	<i>Aspergillus flavus</i>	Cytoplasm
624	protein ArgJ, mitochondrial			
625				
626	<u>Stress and Defense Response</u>			
627				
628	mitochondrial hydrolase	P53889	<i>Saccharomyces cerevisiae</i>	Mitochondrion
629				
630	oxidoreductase C24B10.20	Q9P7I6	<i>Schizosaccharomyces pombe</i>	Cytoplasm
631				
632	Glutathione peroxidase-like	O59858	<i>Schizosaccharomyces pombe</i>	Cytoplasm
633	peroxiredoxin gpx1			
634				
635				
636	<u>Pathogenicity</u>			
637				
638	Acetyltransferase sirH	Q6Q889	<i>Leptosphaeria maculans</i>	Membrane
639				
640	Mitogen-activated protein kinase	G4N7X0	<i>Magnaporthe oryzae</i>	Nucleus
641	kinase MST11			
642				

643	Subtilisin-like protease 6	A1XIH0	<i>Trichophyton equinum</i>	Secreted
644				
645				
646	<u>Other Metabolites</u>			
647				
648	Thiamine biosynthetic bifunctional enzyme	P41835	<i>Saccharomyces cerevisiae</i>	Cytoplasm
649				
650	FAD_binding_3 domain- containing protein	A0A6M7Z3Q6	<i>Fusarium oxysporum</i>	Membrane
651				
652				
653	Amine oxidase	F9FXV0	<i>Fusarium oxysporum</i>	Cytoplasm
654				
655	Tyrosinase	A0A6M7ZIT1	<i>Fusarium oxysporum</i>	Endoplasmic reticulum /Golgi
656				
657	Iterative polyketide synthase afoE	Q5BEJ6	<i>Emericella nidulans</i>	Endoplasmic reticulum
658				
659	Molybdenum cofactor sulfurase	B0Y691	<i>Neosartorya fumigata</i>	Cytoplasm
660				
661	oxidoreductase C30D10.05c	O14351	<i>Saccharomyces pombe</i>	Cytoplasm
662				
663	Adenylyltransferase and sulfurtransferase uba4	A4RPM5	<i>Magnaporthe oryzae</i>	Cytoplasm
664				
665				
666	Hybrid PKS-NRPS synthetase iliA	P0DO30	<i>Neonectria sp.</i>	Endoplasmic reticulum membrane
667				
668	Halogenase otaD	A2R6G7	<i>Aspergillus niger</i>	Mitochondrion
669				
670	Dehydrogenase xptC	Q5AUN2	<i>Emericella nidulans</i>	Mitochondrion
671				
672	Cytochrome P450 monooxygenase atnE	Q5AUZ9	<i>Emericella nidulans</i>	Membrane
673				
674				
675				
676	<u>Unknown</u>			
677				
678	NADP-dependent 3-hydroxy	Q05016	<i>Saccharomyces cerevisiae</i>	Cytoplasm

679	acid dehydrogenase			
680				
681	UPF0641 membrane protein	P38842	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
682	YHR140W			
683				
684	Protein FYV8	P46949	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
685				
686	Protein SGM1	Q06629	<i>Saccharomyces cerevisiae</i>	Nucleus
687				
688	FAD-binding PCMH-type	A0A6M7YWV0	<i>Fusarium oxysporum</i>	Nucleus
689	domain-containing protein			
690				
691	HpcH_HpaI domain-	A0A6M7Z6R5	<i>Fusarium oxysporum</i>	Mitochondrion
692	containing protein			
693				
694	Transket_pyr domain-	A0A6M7Z6R5	<i>Fusarium oxysporum</i>	Mitochondrion
695	containing protein			
696				
697	NB-ARC domain-	A0A420MRP4	<i>Fusarium oxysporum</i>	Cytoplasm
698	containing protein			
699				
700	COesterase domain-	X0H0X2	<i>Fusarium oxysporum</i>	Nucleus
701	containing protein			
702				
703	RNB domain-	A0A0D2XD23	<i>Fusarium oxysporum</i>	Nucleus
704	containing protein			
705				
706	AB hydrolase-1 domain-	X0HJI4	<i>Fusarium oxysporum</i>	Cytoplasm
707	containing protein			
708				
709	OTU domain-containing protein	W9JXF0	<i>Fusarium oxysporum</i>	Nucleus
710				
711	C2H2-type domain-	W9JIH0	<i>Fusarium oxysporum</i>	Nucleus
712	containing protein			
713				
714	Amidase	W9K8T3	<i>Fusarium oxysporum</i>	Cytoplasm

715				
716	HEME_HALOPEROXIDASE	A0A2H3U0R6	<i>Fusarium oxysporum</i>	Nucleus
717	domain-containing protein			
718				
719	Ribonuclease Z	A0A8H4Z2B5	<i>Fusarium oxysporum</i>	Cytoplasm
720				
721	GMC_OxRdtase_N domain-	W9I4W9	<i>Fusarium oxysporum</i>	Cytoplasm
722	containing protein			
723				
724	AB hydrolase-1 domain-	A0A6M7ZKL2	<i>Fusarium oxysporum</i>	Nucleus
725	containing protein			
726				
727	HET domain-containing	X0B8E0	<i>Fusarium oxysporum</i>	Cytoplasm
728	protein			
729				
730	Hydrolase_4 domain-containing	A0A2H3SLL2	<i>Fusarium oxysporum</i>	Cytoplasm
731	protein			
732				
733	Amidohydro-rel domain-	A0A2H3SLL2	<i>Fusarium oxysporum</i>	Peroxisomal
734	containing protein			
735				
736	Fido domain-containing protein	A0A420RA84	<i>Fusarium oxysporum</i>	Nucleus
737				
738	Aldedh domain-	F9F287	<i>Fusarium oxysporum</i>	Cytoplasm
739	containing protein			
740				
741	NACHT domain-	A0A6M7Z9K2	<i>Fusarium oxysporum</i>	Nucleus
742	containing protein			
743				
744	NAD(+) diphosphatase	A0A559KVW1	<i>Fusarium oxysporum</i>	Nucleus
745				
746	P4Hc domain-containing	A0A0D2XZJ7	<i>Fusarium oxysporum</i>	Cytoplasm
747	Protein			
748				
749	Methyltransf_25 domain-	W9JMD3	<i>Fusarium oxysporum</i>	Mitochondrion
750	containing protein			

751				
752	Translation machinery-	A2QHG9	<i>Aspergillus niger</i>	Cytoplasm
753	associated protein 22			
754				
755	Siderophore transporter	F9X9V3	<i>Zymoseptoria tritici</i>	Membrane
756	MYCGRDRAFT_70577			
757				
758	Malformin synthetase mlfA	A0A1L9NGU5	<i>Aspergillus tubingensis</i>	Endoplasmic reticulum membrane
759				
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777	Supplementary Table 3 – Unique proteins identified in the treated group by ESI-LC-MS/MS			

	Protein Name	ID (Uniprot)	Organism Reference	Cellular Compartment
779	<u>Transport</u>			
780				
781	Vacuolar protein-sorting-associated	P69771	<i>Saccharomyces cerevisiae</i>	Endosome membrane
782	protein 46			
783				
784	Autophagy-related protein 9	Q06628	<i>Saccharomyces cerevisiae</i>	Membrane
785				
786	Mitochondrial import inner membrane	P32897	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
787	translocase subunit TIM23			
788				
789	Low affinity vacuolar monovalent	P42839	<i>Saccharomyces cerevisiae</i>	Vacuole membrane
790	cation/H (+) antiporter			
791				
792	GTP-binding protein GTR1	Q00582	<i>Saccharomyces cerevisiae</i>	Vacuole membrane
793				
794	Protein SNQ2	P32568	<i>Saccharomyces cerevisiae</i>	Membrane
795				
796	Intracellular protein transport protein	P25386	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum/Golgi apparatus
797				
798	Vacuolar protein sorting/targeting protein VPS	P54787	<i>Saccharomyces cerevisiae</i>	Golgi apparatus
799				
800	Hexose transporter HXT9	P40885	<i>Saccharomyces cerevisiae</i>	Membrane
801				
802	Conserved oligomeric Golgi complex	P54787	<i>Saccharomyces cerevisiae</i>	Golgi membrane
803	subunit 6			
804				
805	Membrane-anchored lipid-binding	Q08001	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
806	protein LAM6			
807				
808	GTP-binding protein YPT32/YPT11	P51996	<i>Saccharomyces cerevisiae</i>	Golgi apparatus membrane
809				

810	MFS domain-containing protein	A0A5C6SDT0	<i>Fusarium oxysporum</i>	Membrane
811				
812	Importin N-terminal domain-containing	A0A0D2XQA6	<i>Fusarium oxysporum</i>	Nucleus
813	Protein			
814				
815				
816	FAD-binding FR-type domain-containing	W9HR83	<i>Fusarium oxysporum</i>	Membrane
817	Protein			
818				
819	GPI ethanolamine phosphate transferase	A0A420Q1C6	<i>Fusarium oxysporum</i>	Endoplasmic
820	reticulum			
821				
822	Bifunctional cytochrome	Q9Y8G7	<i>Fusarium oxysporum</i>	Nucleus /
823	cytoplasm			
824	P450/NADPH--P450 reductase			
825				
826	MFS domain-containing protein	A0A5C6SDT0	<i>Fusarium oxysporum</i>	Membrane
827				
828	Adenyltransferase AND	A0A0D2XXF9	<i>Fusarium oxysporum</i>	Cytosol
829	sulfurtransferase uba4			
830				
831	MFS domain-containing protein	A0A5C6SDT0	<i>Fusarium oxysporum</i>	Membrane
832				
833	Cation_ATPase_N domain-containing	A0A8H5ALP8	<i>Fusarium oxysporum</i>	Membrane
834	protein			
835				
836				
837	Proton-translocating NAD(P)(+) transhydrogenase	P73496	<i>Fusarium oxysporum</i>	Membrane
838				
839	Serine/threonine-protein kinase ATG1	Q52EB3	<i>Magnaporthe oryzae</i>	Cytoplasm
840				
841	DnaJ-related protein spj1	O94625	<i>Schizosaccharomyces pombe</i>	Endoplasmic reticulum
842				
843	Mating factor M secretion protein mam1	P78966	<i>Schizosaccharomyces pombe</i>	Membrane
844				
845	Protein SMY2	P32909	<i>Saccharomyces cerevisiae</i>	Cytoplasm

846				
847	Low-affinity phosphate transporter PHO91	P27514	<i>Saccharomyces cerevisiae</i>	Vacuole membrane
848				
849	Peroxisomal membrane protein PAS20	P80667	<i>Saccharomyces cerevisiae</i>	Peroxisome membrane
850				
851	CRAL-TRIO domain-containing protein C23B6.04c	Q9UU99	<i>Schizosaccharomyces pombe</i>	Cell membrane
852				
853	Copper transport protein ctr4	O94722	<i>Schizosaccharomyces pombe</i>	Membrane
854				
855	Plasma membrane ATPase 1	P09627	<i>Schizosaccharomyces pombe</i>	Cell membrane
856				
857	Presequence translocated-associated motor	C8VTR5	<i>Emericella nidulans</i>	
858	Mitochondrion inner membrane			
859	subunit pam17, mitochondrial			
860				
861	Vacuolar protein-sorting protein bro-1	Q7SAN9	<i>Neurospora crassa</i>	Endosome
862				
863	ATPase GET3	Q6CPX3	<i>Kluyveromyces lactis</i>	
864	Cytoplasm			
865				
866	Vacuolar protein sorting/targeting protein 10	C5FYX2	<i>Arthroderma otae</i>	Golgi apparatus
867				
868	Major glycerophosphoinositol permease GIT3	Q5A1L6	<i>Candida albicans</i>	Cell membrane
869				
870	Plasma membrane ATPase	P24545	<i>Zygosaccharomyces rouxii</i>	Cell membrane
871				
872				
873				
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877				
878	<u>Cell Function and Structure</u>			
879				
880	Mitotic check point protein BFA1	P47113	<i>Saccharomyces cerevisiae</i>	Cytoplasm
881				
882	ATP-dependent DNA helicase CHL1	P22516	<i>Saccharomyces cerevisiae</i>	Nucleus

883				
884	Actin-related protein 2	P32381	<i>Saccharomyces cerevisiae</i>	Cytoplasm
885				
886	Growth regulation protein	P12611	<i>Saccharomyces cerevisiae</i>	Nucleus
887				
888	Serine/threonine-protein kinase	P18961	<i>Saccharomyces cerevisiae</i>	Cytoplasm
889	YPK2/YKR2			
890				
891	Protein UIP5	P36137	<i>Saccharomyces cerevisiae</i>	Nucleus membrane
892				
893	Nucleoporin NUP159	P40477	<i>Saccharomyces cerevisiae</i>	Nucleus
894				
895	Protein TMA23	Q03525	<i>Saccharomyces cerevisiae</i>	Nucleus
896				
897	Exocyst complex component SEC8	O74562	<i>Saccharomyces cerevisiae</i>	Cytoplasm
898				
899	Protein STU1	P38198	<i>Saccharomyces cerevisiae</i>	Centromere
900				
901	Protein PAL1	Q05518	<i>Saccharomyces cerevisiae</i>	Membrane
902				
903	Serine/threonine-protein kinase CLA4	P48562	<i>Saccharomyces cerevisiae</i>	Cytoplasm, cytoskeleton
904				
905	Sister chromatid cohesion protein 1	P40090	<i>Saccharomyces cerevisiae</i>	Nucleus
906				
907	Essential for maintenance of the	P42842	<i>Saccharomyces cerevisiae</i>	Cytoplasm
908	cell wall protein 1			
909				
910	Serine/threonine-protein kinase GIN4	Q12263	<i>Saccharomyces cerevisiae</i>	Cytoplasm
911				
912	Phosphatidylinositol 4,5-bisphosphate	P40559	<i>Saccharomyces cerevisiae</i>	Cytoplasm
913	5-phosphatase INP51			
914				
915	Monopolar spindle protein 2	P53159	<i>Saccharomyces cerevisiae</i>	Cytoplasm
916				
917	Chitin synthase	Q873Z8	<i>Fusarium oxysporum</i>	Cytoplasm
918				

919	Aldedh domain-containing protein	F9F287	<i>Fusarium oxysporum</i>	Cytoplasm
920				
921	Protein SPA2	P23201	<i>Saccharomyces cerevisiae</i>	Cell tip
922				
923	ASTRA-associated protein 1	A7ESR0	<i>Sclerotinia sclerotiorum</i>	Nucleus
924				
925	Pheromone-processing	B6K7U7	<i>Schizosaccharomyces japonicus</i>	Golgi apparatus / trans-Golgi network membrane
926	carboxypeptidase kex1			
927				
928	Autophagy-related protein 2	A2QSC9	<i>Aspergillus niger</i>	Endoplasmic reticulum membrane
929				
930	Inner kinetochore subunit CTF19	Q02732	<i>Saccharomyces cerevisiae</i>	Nucleus
931				
932	Autophagy-related protein 9	Q75A48	<i>Saccharomyces cerevisiae</i>	Preautophagosomal structure membrane
933				
934	Serine/threonine-protein kinase tor2	Q9Y7K2	<i>Schizosaccharomyces pombe</i>	Cytoplasm
935				
936	Anaphase-promoting complex subunit 2	Q12440	<i>Saccharomyces cerevisiae</i>	Cytoplasm
937				
938	GPI ethanolamine phosphate transferase 1	Q4ILH3	<i>Gibberella zeae</i>	Endoplasmic reticulum membrane
939				
940				
941	Aspartic proteinase yapsin-7	Q06325	<i>Saccharomyces cerevisiae</i>	Cytoplasm
942				
943	Inactive metalloproteinase ecm14	B8M2K0	<i>Talaromyces stipitatus</i>	Vacuole
944				
945	MICOS complex subunit mic60	Q7SFD8	<i>Neurospora crassa</i>	Mitochondrion inner membrane
946				
947	Sporulation-specific protein 22	P40511	<i>Saccharomyces cerevisiae</i>	Cell membrane
948				
949				
950	<u>Energetic metabolism</u>			
951				
952	Succinate dehydrogenase assembly	Q04401	<i>Saccharomyces cerevisiae</i>	Mitochondrion
953	factor 3, mitochondrial			
954				

955	Cytochrome c mitochondrial import	P38909	<i>Saccharomyces cerevisiae</i>	Mitochondrion	inner
956	membrane				
957	factor CYC2				
958					
959	Alcohol dehydrogenase 4	P10127	<i>Saccharomyces cerevisiae</i>	Mitochondrion	
960					
961	54S ribosomal protein L17, mitochondrial	P36528	<i>Saccharomyces cerevisiae</i>	Mitochondrion	
962					
963	NAD-dependent malic enzyme, mitochondrial	P36013	<i>Saccharomyces cerevisiae</i>	Mitochondrion	
964					
965	Glycogen debrancher	A0A2H3T8G3	<i>Fusarium oxysporum</i>	Cytoplasm	
966					
967	Kinesin motor domain-containing protein	W9L7Z1	<i>Fusarium oxysporum</i>	Mitochondrion	
968					
969	Structural maintenance of chromosomes	A0A0D2XQL5	<i>Fusarium oxysporum</i>	Nucleus	
970	Protein				
971					
972	Kinesin-like protein	A0A6M7Z0I0	<i>Fusarium oxysporum</i>		
973	Microtubule				
974					
975	HTH APSES-type domain-containing	W9KJX9	<i>Fusarium oxysporum</i>		
976	Nucleus				
977	Protein				
978					
979	Glycerol kinase	W9JLB5	<i>Fusarium oxysporum</i>		
980	Cytoplasm				
981					
982	Isoamyl acetate-hydrolyzing esterase	O74648	<i>Schizosaccharomyces pombe</i>	Cytoplasm	
983					
984	ATP synthase subunit 5, mitochondrial	A0A6A5Q1Y3	<i>Saccharomyces cerevisiae</i>	Mitochondrion	
985	inner membrane				
986					
987	Phosphoglycerate kinase 2	P29406	<i>Rhizopus niveus</i>	Cytoplasm	
988					
989	NADH-ubiquinone oxidoreductase chain 4	A9RAH8	<i>Debaryomyces hansenii</i>		
990	Mitochondrion membrane				

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Protein Folding and metabolism

E3 ubiquitin-protein ligase substrate receptor	P39940	<i>Saccharomyces cerevisiae</i>	Cytoplasm
Isoleucine--tRNA ligase, cytoplasmic	P09436	<i>Saccharomyces cerevisiae</i>	Cytoplasm
N-terminal acetyltransferase A complex subunit NAT1	P12945	<i>Saccharomyces cerevisiae</i>	Cytoplasm
N-alpha-acetyltransferase 35, NatC auxiliary subunit	Q02197	<i>Saccharomyces cerevisiae</i>	Cytoplasm
5-demethoxyubiquinone hydroxylase, mitochondrial	P41735	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
CUE domain-containing protein CUE4	Q04201	<i>Saccharomyces cerevisiae</i>	Cytoplasm
Low molecular weight phosphotyrosine protein phosphatase	P40347	<i>Saccharomyces cerevisiae</i>	Cytoplasm
H/ACA ribonucleoprotein complex non-core subunit NAF1	P53919	<i>Saccharomyces cerevisiae</i>	Nucleus
Elongation factor 3B	P53978	<i>Saccharomyces cerevisiae</i>	Cytoplasm
Coupling of ubiquitin conjugation to ER degradation protein 1	Q08412	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane

1028	Actin cytoskeleton-regulatory complex protein PAN1	P32521	<i>Saccharomyces cerevisiae</i>	Endosome membrane
1029				
1030				
1031	Ribosome biogenesis protein UTP30	P36144	<i>Saccharomyces cerevisiae</i>	Nucleus
1032				
1033	Dolichyldiphosphatase	P53223	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
1034				
1035	Proteasome chaperone 1	P53196	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1036				
1037	Dipeptidase	A0A2H3T5I7	<i>Fusarium oxysporum</i>	Cytoplasm
1038				
1039	Peptidase_S8 domain-containing protein	A0A420NBM7	<i>Fusarium oxysporum</i>	Nucleus
1040				
1041	Leukotriene A-4 hydrolase homolog	W9ZSS5	<i>Fusarium oxysporum</i>	Endoplasmic reticulum
1042				
1043	Protein kinase domain-containing Protein	A0A0D2XQE2	<i>Fusarium oxysporum</i>	Nucleus
1044				
1045				
1046	Protein kinase domain-containing protein	A0A0D2XQE2	<i>Fusarium oxysporum</i>	Cytoplasm
1047				
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1049				
1050	Protein kinase domain-containing protein	A0A0D2XQE2	<i>Fusarium oxysporum</i>	Nucleus
1051				
1052	54S ribosomal protein yml6, mitochondrial	O74801	<i>Schizosaccharomyces pombe</i>	Mitochondrion
1053				
1054	Methionine aminopeptidase 2	E3L3Q8	<i>Puccinia graminis</i>	Cytoplasm
1055				
1056	Ubiquinone biosynthesis protein COQ4, mitochondrial	A5DVZ3	<i>Lodderomyces elongisporus</i>	Mitochondrion inner membrane
1057				
1058				
1059	DUB-associated factor 1	Q99247	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1060				
1061	Isoleucine--tRNA ligase, mitochondrial	Q9USL3	<i>Schizosaccharomyces pombe</i>	Mitochondrion matrix
1062				
1063	Lon protease homolog 2, peroxisomal	Q9USL3	<i>Neurospora crassa</i>	Peroxisomal matrix

1064				
1065	Protein OS-9 homolog	Q756T2	<i>Ashbya gossypii</i>	Endoplasmic reticulum membrane
1066				
1067	Eukaryotic translation initiation factor 6	A0A0B0DUG9	<i>Neurospora crassa</i>	Nucleus / nucleolus
1068				
1069	Alanine--tRNA ligase	Q5AQL1	<i>Emericella nidulans</i>	Mitochondrion
1070				
1071	Osmolarity two-component system protein SSK1	Q07084	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1072				
1073	Dol-P-Man:Man(5)GlcNAc(2)-PP-Dol alpha-1,3-mannosyltransferase	0TVF9	<i>Phaeosphaeria nodorum</i>	Endoplasmic reticulum membrane
1074				
1075				
1076	Eukaryotic translation initiation factor 3 subunit I	P79083	<i>Schizosaccharomyces pombe</i>	Cytoplasm
1077				
1078				
1079	U3 small nucleolar RNA-associated protein 12	Q12220	<i>Saccharomyces cerevisiae</i>	Nucleus / nucleolus
1080				
1081	Zuotin	Q9Y7I8	<i>Schizosaccharomyces pombe</i>	Cytosol
1082				
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1089	<u>DNA and RNA binding</u>			
1090				
1091	ATP-dependent RNA helicase ROK1	P45818	<i>Saccharomyces cerevisiae</i>	Nucleus
1092				
1093	Protein URA2	P07259	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1094				
1095	RNA exonuclease 1	Q12149	<i>Saccharomyces cerevisiae</i>	Nucleus
1096				
1097	Pre-rRNA-processing protein IPI1	P38803	<i>Saccharomyces cerevisiae</i>	Nucleus
1098				
1099	Protein MPE1	P35728	<i>Saccharomyces cerevisiae</i>	Nucleus

1100				
1101	Cytoplasmic 60S subunit biogenesis	P38344	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1102	factor REI1			
1103				
1104	U4/U6 snRNA-associated-splicing	P49960	<i>Saccharomyces cerevisiae</i>	Nucleus
1105	factor PRP24			
1106				
1107	5'-deoxynucleotidase YBR242W	P38331	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1108				
1109	tRNA (cytidine(32)-2'-O)-methyltransferase	P38238	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1110	non-catalytic subunit TRM732			
1111				
1112	Mitochondrial group I intron	P48237	<i>Saccharomyces cerevisiae</i>	Mitochondrion
1113	splicing factor CCM1			
1114				
1115	H/ACA ribonucleoprotein complex	P33322	<i>Saccharomyces cerevisiae</i>	Nucleus
1116	subunit CBF5			
1117				
1118	DNA-directed RNA polymerase subunit	A0A0C4DHV9	<i>Fusarium oxysporum</i>	Nucleus
1119				
1120				
1121	Zn(2)-C6 fungal-type domain-containing	A0A0D2XDM8	<i>Fusarium oxysporum</i>	Nucleus
1122	Protein			
1123				
1124	DNA topoisomerase I	A0A2C8CY01	<i>Fusarium oxysporum</i>	Chromosome
1125				
1126	Kynurenine 3-monooxygenase	A0A2H3SUS1	<i>Fusarium oxysporum</i>	Mitochondrion outer membrane
1127				
1128	Zn(2)-C6 fungal-type	A0A0D2XDM8	<i>Fusarium oxysporum</i>	Nucleus
1129	domain-containing protein			
1130				
1131	DNA-directed RNA polymerase	A0A0C4DHV9	<i>Fusarium oxysporum</i>	Nucleus
1132	subunit beta			
1133				
1134	DNA topoisomerase 2	A0A6M7YWD6	<i>Fusarium oxysporum</i>	Nucleus
1135				

1136	Fungal_trans domain-containing	W9JP90	<i>Fusarium oxysporum</i>	Nucleus
1137	Protein			
1138				
1139	40S ribosomal protein S26	W9I0R7	<i>Fusarium oxysporum</i>	Ribosome
1140				
1141	CTP synthase	A0A6M7YU47	<i>Fusarium oxysporum</i>	Mitochondrion /cytoplasm
1142				
1143				
1144	eIF-2B GDP-GTP exchange factor subunit epsilon	X0LIC3	<i>Fusarium oxysporum</i>	Nucleus
1145				
1146	Orotate phosphoribosyltransferase	Q1DNB0	<i>Coccidioides immitis</i>	Mitochondrion
1147				
1148	Flap endonuclease 1	A5E121	<i>Lodderomyces elongisporus</i>	Nucleus/nucleolus
1149				
1150	mRNA-capping enzyme subunit alpha	Q01159	<i>Schizosaccharomyces pombe</i>	Nucleus
1151				
1152	Histone H4	Q6ZXX3	<i>Ustilago maydis</i>	Nucleosome
1153				
1154	60S ribosomal protein	O13418	<i>L15 Aspergillus niger</i>	Ribosome
1155				
1156	tRNA (uracil-O(2)-)-methyltransferase	Q6BRY1	<i>Debaryomyces hansenii</i>	Cytoplasm
1157				
1158	U3 small nucleolar RNA-associated protein 10	A5E212	<i>Lodderomyces elongisporus</i>	Nucleus/nucleolus/membrane
1159				
1160	60S ribosomal protein L7	Q6FSN6	<i>Candida glabrata</i>	Cytosolic large ribosomal subunit
1161				
1162	Zinc finger CCCH domain-containing protein C337.12	O74823	<i>Schizosaccharomyces pombe</i>	Nucleus
1163				
1164	Polyadenylate-binding protein, cytoplasmic and nuclear	A5DM21	<i>Meyerozyma guilliermondii</i>	Nucleus/cytoplasm
1165				
1166	ATP-dependent RNA helicase MRH4, mitochondrial	Q755C5	<i>Ashbya gossypii</i>	Mitochondrion
1167				
1168	tRNA (adenine(58)-N(1))-methyltransferase	Q6CF35	<i>Yarrowia lipolytica</i>	Nucleus
1169	non-catalytic subunit TRM6			
1170				
1171	Nucleolar protein 58	A2QE38	<i>Aspergillus niger</i>	Nucleus/nucleolus

1172					
1173	ATP-dependent RNA helicase ROK1	P45818	<i>Saccharomyces cerevisiae</i>	Nucleolus	
1174					
1175	Inosine triphosphate pyrophosphatase	D5GCI8	<i>Tuber melanosporum</i>	Cytoplasm	
1176					
1177	54S ribosomal protein L3, mitochondrial	O43042	<i>Schizosaccharomyces pombe</i>	Mitochondrion	
1178					
1179	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6	Q4WE58	<i>Neosartorya fumigata</i>	Nucleus	
1180					
1181					
1182	Cytochrome b mRNA maturase bI3	A9RAG7	<i>Debaryomyces hansenii</i>	Mitochondrion inner membrane	
1183					
1184	Pre-mRNA-processing ATP-dependent RNA helicase PRP5	A5E058	<i>Lodderomyces elongisporus</i>	Nucleus	
1185					
1186	Dihydroorotate dehydrogenase (quinone), mitochondrial	Q63707	<i>Lachancea kluyveri</i>	Mitochondrion inner membrane	
1187					
1188	Mitochondrial escape protein 2	P32843	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane	
1189					
1190	Flap endonuclease 1	Q6BLF4	<i>Debaryomyces hansenii</i>	Nucleus/nucleolus	
1191					
1192	Orotidine 5'-phosphate decarboxylase	P15188	<i>Ustilago maydis</i>	Cytosol	
1193					
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1203	<u>Lipid Metabolism</u>				
1204					
1205	Manganese lipoygenase	F9FRH4	<i>Fusarium oxysporum</i>	Nucleus	
1206	PlsC domain-containing protein	A0A420SRZ6	<i>Fusarium oxysporum</i>	Cellular anatomical Entity	
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Carbohydrate metabolism

Phosphoenolpyruvate carboxykinase (ATP)	P10963	<i>Saccharomyces cerevisiae</i>	Cytoplasm
SNF1-activating kinase 1	P38990	<i>Saccharomyces cerevisiae</i>	Cytoplasm
Alpha-glucosidase MAL12	P53341	<i>Saccharomyces cerevisiae</i>	Membrane
Glucosamine-6-phosphate deaminase	W9KB79	<i>Fusarium oxysporum</i>	Cytoplasm
Cas1_AcyIT domain-containing Protein	A0A6M7YXG0	<i>Fusarium oxysporum</i>	Membrane
Phosphoglycerate kinase	A0A1D8MJA9	<i>Fusarium oxysporum</i>	Nucleus / cytoplasm
Transcription activator of gluconeogenesis ERT1	C4YLC3	<i>Candida albicans</i>	Nucleus
Beta-mannosidase B	Q5B7W2	<i>Emmericella nidulans</i>	Cytoplasm
NAD(P)H-dependent D-xylose reductase	Q9P430	<i>Scheffersomyces shehatae</i>	Cytoplasm
Exo-alpha-sialidase	Q4WQS0	<i>Neosartorya fumigata</i>	Cytoplasm
Ergosteryl-beta-glucosidase	P40566	<i>Saccharomyces cerevisiae</i>	Cytoplasm/cytosol
Cytosolic neutral trehalase	P52494	<i>Candida albicans</i>	Cytoplasm
FAD-binding monooxygenase prhJ	A0A1E1FFN7	<i>Penicillium brasilianum</i>	Cytoplasm / mitochondrion
Patatin-like phospholipase domain-containing protein MGG_12849	A4R8V2	<i>Magnaporthe oryzae</i>	Membrane

1244	Lysophospholipase	Q2H0D3	<i>NTE1 Chaetomium globosum</i>	Endoplasmic reticulum
1245				
1246	Non-reducing polyketide synthase stbA	A0A193PS74	<i>Stachybotrys bisbyi</i>	Nucleus
1247				
1248	Triacylglycerol lipase ptl3	Q9Y827	<i>Schizosaccharomyces pombe</i>	Cytoplasm
1249				
1250	Hybrid PKS-NRPS synthetase TAS1	G4N137	<i>Magnaporthe oryzae</i>	Mitochondrion
1251				
1252	Very-long-chain 3-oxoacyl-CoA reductase	Q75A60	<i>Ashbya gossypii</i>	Endoplasmic reticulum membrane
1253				
1254	NADPH--cytochrome P450 reductase	P16603	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
1255				
1256	Patatin-like phospholipase domain-containing protein CIMG_04897	Q1DXR6	<i>Coccidioides immitis</i>	Membrane
1257				
1258				
1259	Fatty acid synthase subunit alpha	P43098	<i>Candida albicans</i>	Fatty acid synthase complex
1260				
1261				
1262	<u>Pathogenicity</u>			
1263				
1264	Cyclochlorotriene synthetase	A0A0U1LQE6	<i>Talaromyces islandicus</i>	Endoplasmic reticulum
1265				
1266	Nonribosomal peptide synthetase 1	Q4WT66	<i>Neosartorya fumigata</i>	Cytoplasm
1267				
1268	Nonribosomal peptide synthetase vlms	A0A024F910	<i>Lecanicillium</i>	Endoplasmic reticulum
1269				
1270	Reducing polyketide synthase AFT16-1	V5Y0F7	<i>Alternaria alternata</i>	Nucleus / Cytoplasm
1271				
1272	Acyltransferase BOA11	A6SSW1	<i>Botryotinia fuckeliana</i>	Cytoplasm
1273				
1274				
1275				
1276	<u>Regulation Factor or Signaling</u>			
1277				
1278	Negative regulator of RAS-cAMP pathway	P34072	<i>Saccharomyces cerevisiae</i>	Nucleus
1279				

1280	Protein SRL3	P36167	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1281				
1282	SWI/SNF global transcription activator	P43554	<i>Saccharomyces cerevisiae</i>	Nucleus
1283	complex subunit			
1284				
1285	Pheromone a factor receptor	Q00619	<i>Saccharomyces cerevisiae</i>	Membrane
1286				
1287	MEMO1 family protein MHO1	P47085	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1288				
1289	General transcription and DNA repair	Q02939	<i>Saccharomyces cerevisiae</i>	Nucleus
1290	factor IIH subunit TFB2			
1291				
1292	Regulatory protein SWI6	P09959	<i>Saccharomyces cerevisiae</i>	Nucleus/Cytoplasm
1293				
1294	Transcription regulatory protein SNF2	P22082	<i>Saccharomyces cerevisiae</i>	Nucleus
1295				
1296	Rho-GTPase-activating protein RGD2	P43556	<i>Saccharomyces cerevisiae</i>	Nucleus
1297				
1298	Protein PET122, mitochondrial	P10355	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
1299				
1300	Transcription factor TFIIB component B"	P46678	<i>Saccharomyces cerevisiae</i>	Nucleus
1301				
1302	Zinc finger protein MSN2	P33748	<i>Saccharomyces cerevisiae</i>	Cytoplasm/ Nucleus
1303				
1304	DNA repair/transcription protein	P40469	<i>Saccharomyces cerevisiae</i>	Nucleus
1305	MET18/MMS19			
1306				
1307	Aprataxin-like protein	Q08702	<i>Saccharomyces cerevisiae</i>	Nucleus
1308				
1309	Mitochondrial escape protein 2	P32843	<i>Saccharomyces cerevisiae</i>	Mitochondrion inner membrane
1310				
1311	Actin-related protein 8	W9IT40	<i>Fusarium oxysporum</i>	Nucleus
1312				
1313	Mediator of RNA polymerase II		A0A0D2XHG4	<i>Fusarium oxysporum</i>
1314	transcription subunit 1			Nucleus
1315				

1316	Zn(2)-C6 fungal-type domain-containing	A0A0D2XDM8	<i>Fusarium oxysporum</i>	Nucleus
1317	Protein			
1318				
1319	ATP-dependent DNA helicase	A0A8H6LMY2	<i>Fusarium oxysporum</i>	Nucleus
1320				
1321	Fork-head domain-containing protein	W9JSR5	<i>Fusarium oxysporum</i>	Nucleus
1322				
1323				
1324	Serine/threonine-protein kinase TEL1	Q6CP76	<i>Kluyveromyces lactis</i>	Chromosome
1325				
1326	Vacuolar membrane-associated protein iml1	Q2UMR9	<i>Aspergillus oryzae</i>	Vacuolar membrane
1327				
1328	ISWI chromatin-remodeling complex ATPase ISW2	Q5A310	<i>Candida albicans</i>	Nucleus
1329				
1330	DNA mismatch repair protein MSH3	Q6CHE5	<i>Yarrowia lipolytica</i>	Nucleus
1331				
1332	C2H2 type master regulator of conidiophore	P10069	<i>Aspergillus oryzae</i>	Nucleus
1333	development brlA			
1334				
1335	Methylated-DNA--protein-cysteine	Q6BVY4	<i>Debaryomyces hansenii</i>	Nucleus
1336	methyltransferase			
1337				
1338	Verprolin	P37370	<i>Saccharomyces cerevisiae</i>	Cytoplasm/cytoskeleto
1339				
1340	Nicotinate catabolism cluster-specific	C8VJW0	<i>Emericella nidulans</i>	Nucleus
1341	transcription factor			
1342				
1343	Transcription activator of gluconeogenesis	C0NCM1	<i>Ajellomyces capsulatus</i>	Nucleus
1344	HCBG_00867			
1345				
1346	Negative cofactor 2 complex subunit beta	Q92317	<i>Saccharomyces cerevisiae</i>	Nucleus
1347				
1348	Transcriptional regulator of filamentous	Q59QW5	<i>Candida albicans</i>	Nucleus
1349	growth FLO8			
1350				
1351	Transcription factor VHR1	P40522	<i>Saccharomyces cerevisiae</i>	Nucleus

1352				
1353	bZip transcription factor GAP1	Q6FRZ8	<i>Candida glabrata</i>	Nucleus
1354				
1355	RNA polymerase I-specific transcription	Q02983	<i>Saccharomyces cerevisiae</i>	Nucleus
1356	initiation factor RRN5			
1357				
1358	ATPase synthesis protein 25, mitochondrial	Q6C7D6	<i>Yarrowia lipolytica</i>	Mitochondrion
1359	inner membrane			
1360				
1361	Siderophore biosynthesis regulatory	P40349	<i>Ustilago maydis</i>	Nucleus
1362	protein URBS1			
1363				
1364	Flap endonuclease 1	A4QS18	<i>Magnaporthe oryzae</i>	Nucleus /
1365	nucleolus			
1366				
1367	RNA-silencing factor ers1	O94717	<i>Schizosaccharomyces pombe</i>	Cytoplasm
1368				
1369	Telomere length regulation protein TEN1	Q07921	<i>Saccharomyces cerevisiae</i>	Chromosome / telomeric
1370	region			
1371				
1372	Histone acetyltransferase type B subunit 2	Q6FXI8	<i>Candida glabrata</i>	Cytoplasm
1373				
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1381	<u>Amino acid metabolism</u>			
1382				
1383	High-affinity glutamine permease	P48813	<i>Saccharomyces cerevisiae</i>	Mitochondrion membrane
1384				
1385	Vacuolar amino acid transporter 3	P36062	<i>Saccharomyces cerevisiae</i>	Vacuole membrane
1386				
1387	D-3-phosphoglycerate dehydrogenase 2	P40510	<i>Saccharomyces cerevisiae</i>	Cytoplasm

1388				
1389	Glutathione hydrolase	W9JMZ4	<i>Fusarium oxysporum</i>	
1390	Mitochondrion /cytoplasm			
1391				
1392	PALP domain-containing protein	A0A5C6TN97	<i>Fusarium oxysporum</i>	
1393	Mitochondrion			
1394				
1395	Glutathione synthetase	A0A420MCL8	<i>Fusarium oxysporum</i>	
1396	Nucleus			
1397				
1398	Pentafunctional AROM polypeptide	A0A2H3TLG9	<i>Fusarium oxysporum</i>	
1399	Cytoplasm			
1400				
1401	Kynurenine formamidase	Q04066	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1402				
1403	Methylthioribose-1-phosphate	A7TSA5	<i>Vanderwaltozyma polyspora</i>	Cytoplasm
1404	isomerase			
1405				
1406	Thiamine thiazole synthase	A7EWL8	<i>Sclerotinia sclerotiorum</i>	
1407	Cytoplasm			
1408				
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1411	<u>Stress and Defense Response</u>			
1412				
1413	Heat shock protein homolog SSE1	P32589	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1414				
1415	Membrane-anchored lipid-binding	Q06681	<i>Saccharomyces cerevisiae</i>	Endoplasmic reticulum membrane
1416	protein YSP2			
1417				
1418	Heat shock protein SSA4	P22202	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1419				
1420				
1421	6-methylsalicylic acid synthase	P22367	<i>Penicillium patulum</i>	Cytoplasm
1422				

1423	Mechanosensitive ion channel	O14050	<i>Schizosaccharomyces pombe</i>	Endoplasmic	reticulum
1424	membrane				
1425	protein Msy2				
1426					
1427	Protein SIP5	Q759M1	<i>Ashbya gossypii</i>	Cytoplasm	
1428					
1429	Dicer-like protein 2	A1D9Z6	<i>Neosartorya fischeri</i>	Cytoplasm	
1430					
1431	Stress response protein nst1	Q7S8V3	<i>Neurospora crassa</i>	Cytoplasm	
1432					
1433	Cytochrome c peroxidase, mitochondrial	Q6BKY9	<i>Debaryomyces hansenii</i>	Mitochondrion	
1434					
1435					
1436	<u>Transcription regulation</u>				
1437					
1438	Protein hir1	Q0CQ54	<i>Aspergillus terreus</i>	Nucleus	
1439					
1440					
1441	<u>Other Metabolites</u>				
1442					
1443	Inactive deaminase YBR284W	P38150	<i>Saccharomyces cerevisiae</i>	Cytoplasm/Membrane	
1444					
1445	Urea amidolyase	P32528	<i>Saccharomyces cerevisiae</i>	Cytoplasm	
1446					
1447	2,5-diamino-6-ribosylamino-4(3H)	P33312	<i>Saccharomyces cerevisiae</i>	Cytoplasm	
1448	-pyrimidinone 5'-phosphate reductase				
1449					
1450	FAD_binding_3 domain-containing	A0A6M7Z3Q6	<i>Fusarium oxysporum</i>	Mitochondrion	
1451	Protein				
1452					
1453					
1454	Adenosylmethionine decarboxylase	W9HY08	<i>Fusarium oxysporum</i>	Cytoplasm	
1455					
1456	Molybdopterin synthase catalytic subunit	A2R3H4	<i>Aspergillus niger</i>	Cytoplasm	
1457					
1458	Adenylate cyclase	P23466	<i>Lachancea kluyveri</i>	Nucleus	

1459				
1460	Hydroxamate-type ferrichrome siderophore	Q9P7T1	<i>Schizosaccharomyces pombe</i>	Cytoplasm
1461	peptide synthetase			
1462				
1463	3-ketosteroid 1-dehydrogenase heIE	Q4WR24	<i>Neosartorya fumigata</i>	Mitochondrion
1464				
1465	Folic acid synthesis protein FOL1	P53848	<i>Saccharomyces cerevisiae</i>	Mitochondrion membrane
1466				
1467	FAD-dependent monooxygenase sdgC	A0A1U8QHS4	<i>Emericella nidulans</i>	Membrane
1468				
1469	<u>Unknown</u>			
1470				
1471	Protein RFS1	P38234	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1472				
1473	PX domain-containing protein YPR097W	Q06839	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1474				
1475	Protein FMP27, mitochondrial	Q06179	<i>Saccharomyces cerevisiae</i>	Mitochondrion
1476				
1477	BZIP domain-containing protein	A0A6M7Z7J4	<i>Fusarium oxysporum</i>	Nucleus
1478				
1479	ABC1 domain-containing protein	A0A6M7Z9K2	<i>Fusarium oxysporum</i>	Nucleus
1480				
1481	AMP-binding domain-containing protein	W9KNE1	<i>Fusarium oxysporum</i>	Cytoplasm
1482				
1483	Mtf2 domain-containing protein	A0A2H3T9L8	<i>Fusarium oxysporum</i>	Mitochondrion
1484				
1485	gag_pre-integr domain-containing protein	A0A420PAX1	<i>Fusarium oxysporum</i>	Nucleus
1486				
1487	SCP domain-containing protein	A0A6M7ZUM5	<i>Fusarium oxysporum</i>	
1488	Nucleus			
1489				
1490	HTH APSES-type domain-containing protein	W9KJX9	<i>Fusarium oxysporum</i>	
1491	Nucleus			
1492				
1493	Spc7 domain-containing protein	W9LBX5	<i>Fusarium oxysporum</i>	
1494	Nucleus			

1495			
1496	HET domain-containing protein	X0B8E0	<i>Fusarium oxysporum</i>
1497	Nucleus/Cytoplasm		
1498			
1499	Isochorismatase domain-containing protein	W9K8Q9	<i>Fusarium oxysporum</i>
1500	Cytoplasm		
1501			
1502	2EXR domain-containing protein	A0A6M7ZEK6	<i>Fusarium oxysporum</i>
1503	Unknown		
1504			
1505	DJ-1_PfpI domain-containing protein	A0A6M7YN02	<i>Fusarium oxysporum</i>
1506	Unknown		
1507			
1508	Abhydrolase_3 domain-containing protein	A0A2H3GEN0	<i>Fusarium oxysporum</i>
1509	Cytoplasm		
1510	Cytochrome b5 heme-binding	A0A420STL5	<i>Fusarium oxysporum</i>
1511	Nucleus		
1512	domain-containing protein		
1513			
1514	AB hydrolase-1 domain-containing protein	W9JP57	<i>Fusarium oxysporum</i>
1515	Cytoplasm		
1516			
1517	Homeobox domain-containing protein	A0A6M7YN32	<i>Fusarium oxysporum</i>
1518	Nucleus		
1519			
1520	SH3 domain-containing protein	X0IL15	<i>Fusarium oxysporum</i>
1521	Integral component of membrane		
1522			
1523	FAD-binding PCMH-type	A0A6M7YWV0	<i>Fusarium oxysporum</i>
1524	Endoplasmic		
1525	domain-containing protein		
1526			
1527	Deacetylase sirtuin-type	A0A6M7ZUM4	<i>Fusarium oxysporum</i>
1528	Nucleus		
1529	domain-containing protein		
1530			

1531	NB-ARC domain-containing protein	W9KX17	<i>Fusarium oxysporum</i>	
1532	Cytoplasm			
1533				
1534				
1535	5'-deoxynucleotidase	A0A6M7ZG25	<i>Fusarium oxysporum</i>	
1536	Cytoplasm / Mitochondrion			
1537				
1538	DNA helicase	W9IMG1	<i>Fusarium oxysporum</i>	
1539	Nucleus			
1540				
1541	Dimer_Tnp_hAT domain-containing protein	A0A8H6GUX8	<i>Fusarium oxysporum</i>	
1542	Cytoplasm / nucleus			
1543				
1544	J domain-containing protein	A0A8H5AIT8	<i>Fusarium oxysporum</i>	
1545	Membrane			
1546				
1547	Maintenance of telomere capping protein 2	C5E1C0	<i>Zygosaccharomyces rouxii</i>	Unknown
1548				
1549	Membrane-bound O-acyltransferase GUP1	Q7Z888	<i>Millerozyma farinosa</i>	Cell
1550	membrane			
1551				
1552	Baeyer-Villiger monooxygenase nsrF	A0A2I1C3U2	<i>Aspergillus novofumigatus</i>	Cytoplasm
1553				
1554	Cytochrome P450 monooxygenase 98	F1SY91	<i>Postia placenta</i>	Membrane
1555				
1556	Altered inheritance of mitochondria	A5DKQ3	<i>Meyerozyma guilliermondii</i>	Mitochondrion
1557	protein 41, mitochondrial			
1558				
1559	Protein PAR32	Q12515	<i>Saccharomyces cerevisiae</i>	Cytoplasm
1560				
1561	Nonribosomal peptide synthetase 4	I1RF49	<i>Gibberella zeae</i>	Endoplasmic
1562	reticulum			
1563				
1564	Sorbose reductase homolog SOU2	P87218	<i>Candida albicans</i>	Cytoplasm
1565				

1566	pH-response regulator protein palF/RIM8	Q52FM1	<i>Magnaporthe oryzae</i>	
1567	Unknown			
1568				
1569	T-complex protein 1 subunit eta	Q8SR53	<i>Encephalitozoon cuniculi</i>	Cytoplasm
1570				
1571	Monooxygenase AacuP	A0A1L9WLD7	<i>Aspergillus aculeatus</i>	
1572	Cytoplasm			
1573				
1574	FK506-binding protein 4	G0SC91	<i>Chaetomium thermophilum</i>	Nucleus
1575				
1576	Topoisomerase I damage affected protein 2	A7TTT7	<i>Vanderwaltozyma polyspora</i>	Cytoplasm
1577				
1578	Cytochrome P450 monooxygenase orf6	A0A068ACU3	<i>Eupenicillium brefeldianum</i>	Membrane
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