Interaction of *Piriformospora indica* with *Azotobacter chroococcum*

Soubhagya Kumar Bhuyan[1], Prasun Bandyopadhyay[2], Pramod Kumar[1], Deepak Kumar Mishra[1], Ramraj Prasad[1], Abha Kumari[1], Kailash Chandra Upadhyaya[3], Ajit Varma[2] & Pramod Kumar Yadava[1*]

Supplimentary data

Figure S1. Visualization of the *A. chroococcum – P. indica* interaction in Hill and Kaefer agar plates in the presence and absence of *A. chroococcum* strains. (A) control plate. (B) interaction of *P. indica* with WR3. (C) interaction of *P. indica* with WR9. (D) interaction of *P. indica* with AS4.

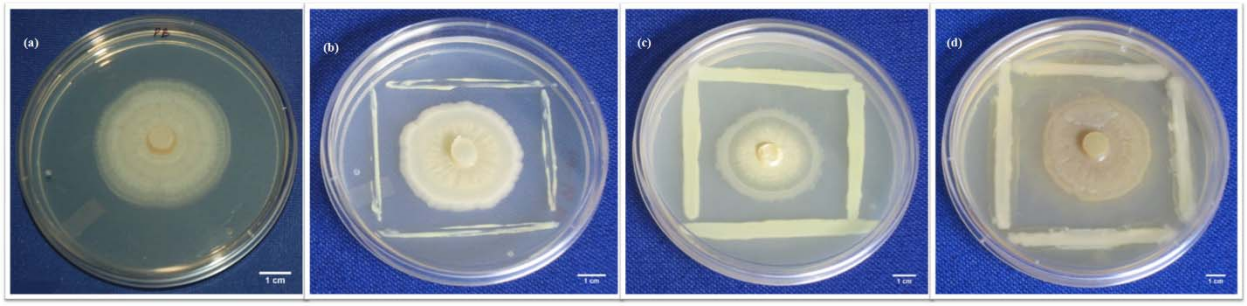


Figure S 2. Influence of *A. chroococcum* strains on the (A) dry cell weight and (B) spore yield of *P. indica* in Hill and Kaefer liquid medium. Statistical analysis was performed using GraphPad Prism software by one way analysis of variance (ANOVA), followed by Dunnett's multiple comparison test. Values represented as mean ±sd, n=3. **P≤0.01, ****P≤0.01 compared with *P. indica* alone. Error bar represents standard deviation (SD).

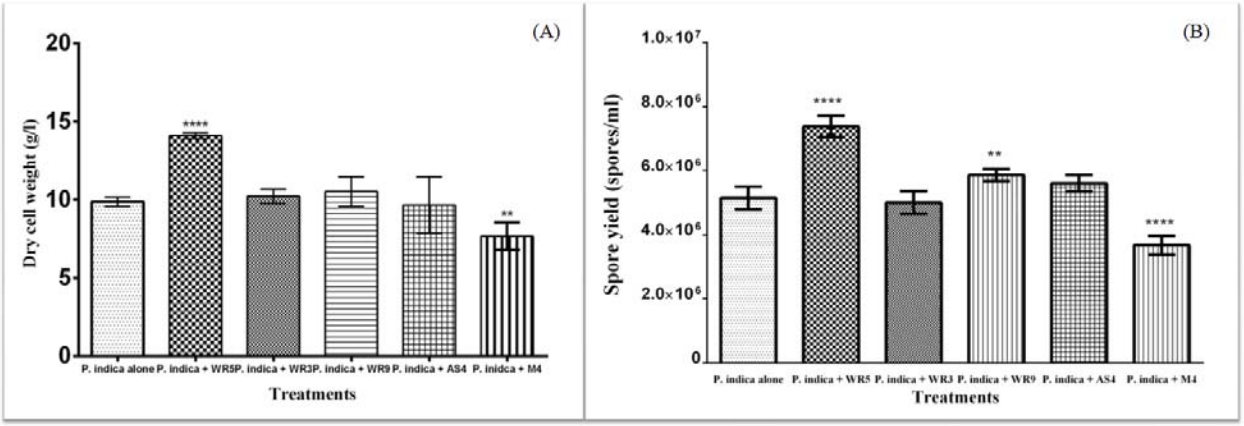
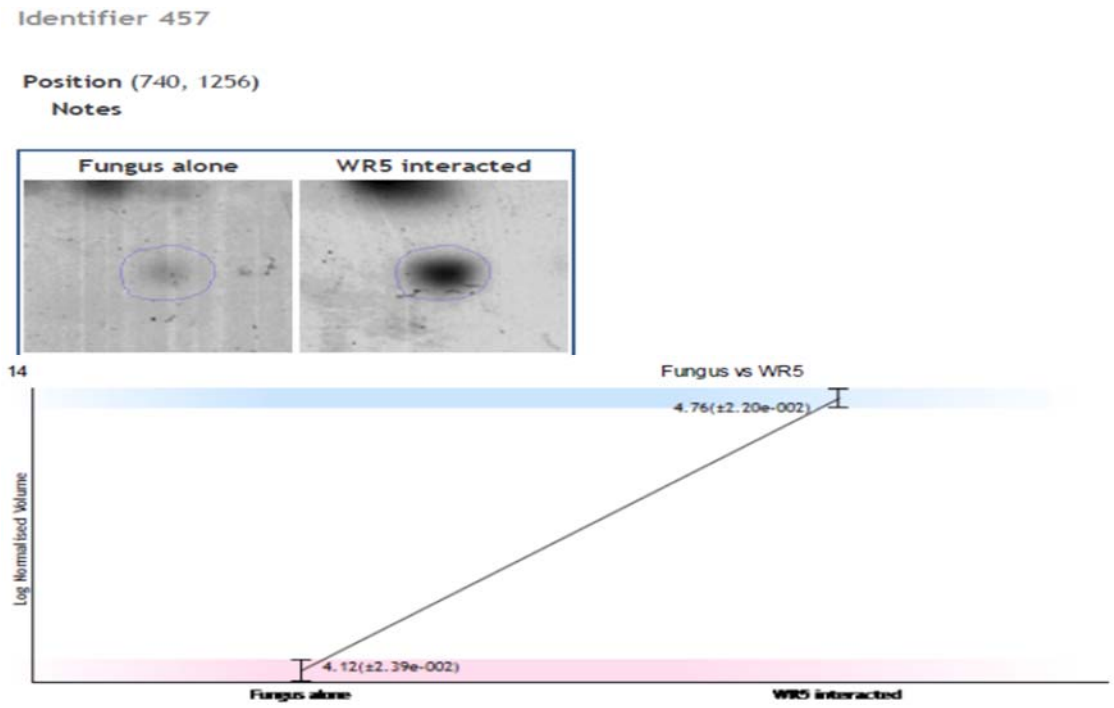
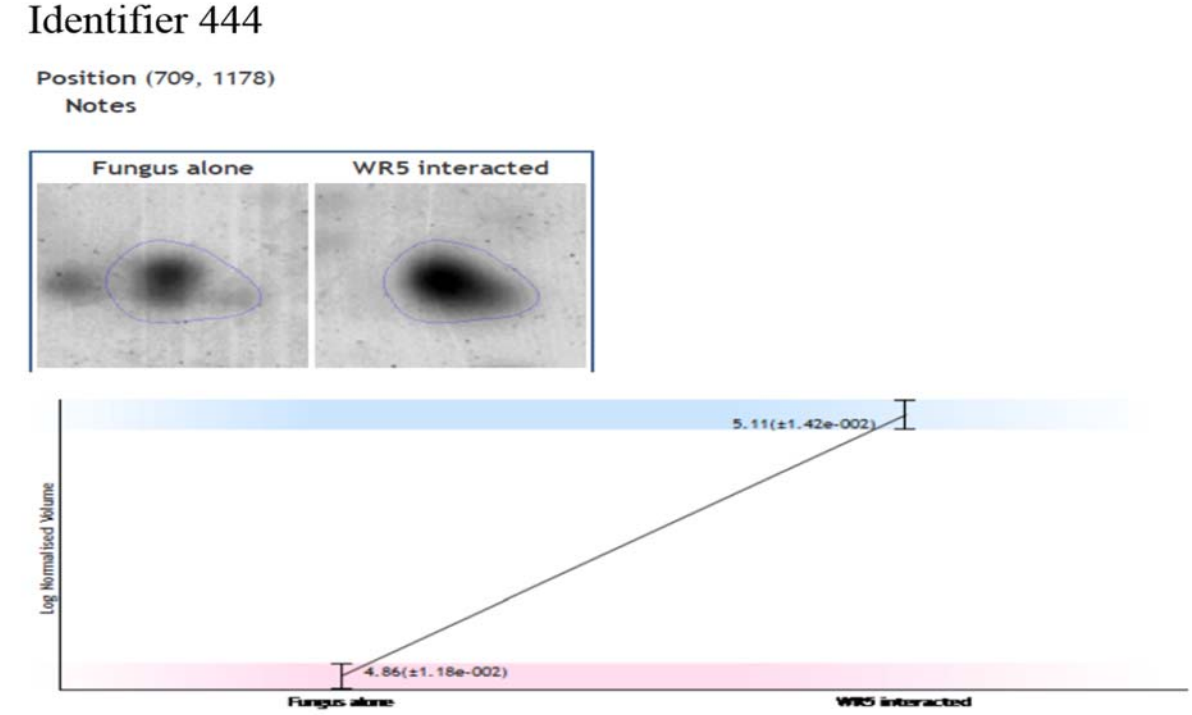


Figure S3. A list of protein spots identifier number, that exhibit change in expression fold level was analyzed pairwise between control and WR5-treated *P. indica* using Progenesis SameSpots analysis software.

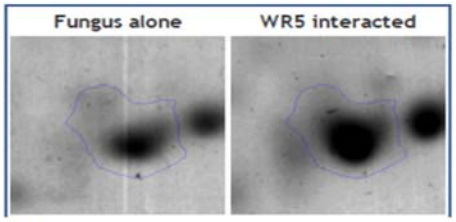


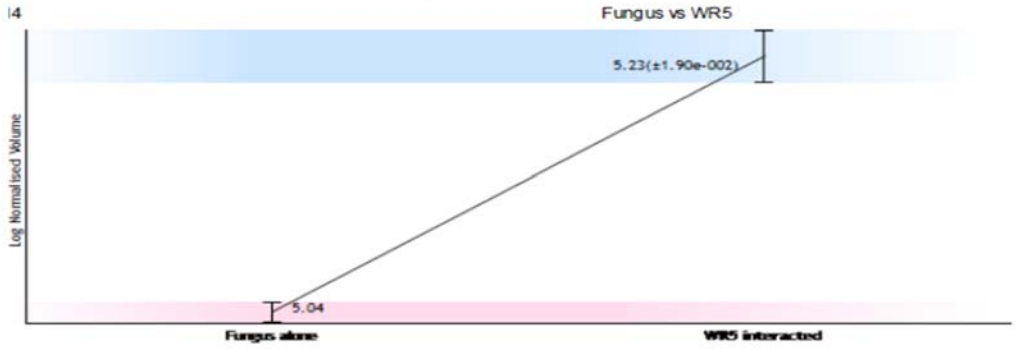


Identifier 443

Position (395, 1177)

Notes

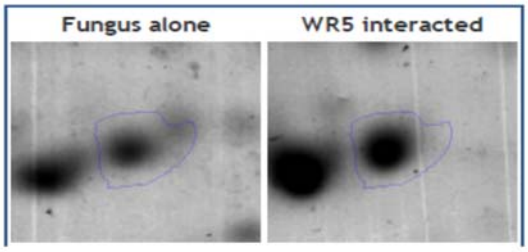


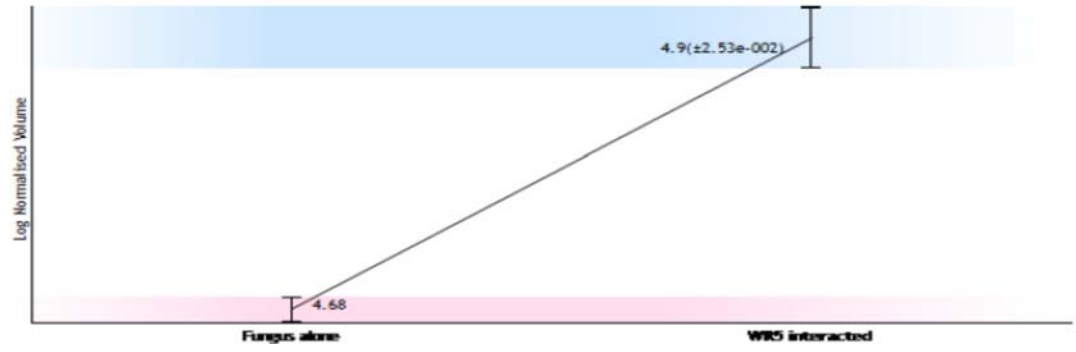


Identifier 440

Position (439, 1160)

Notes

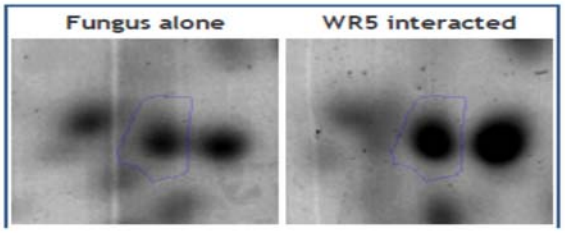


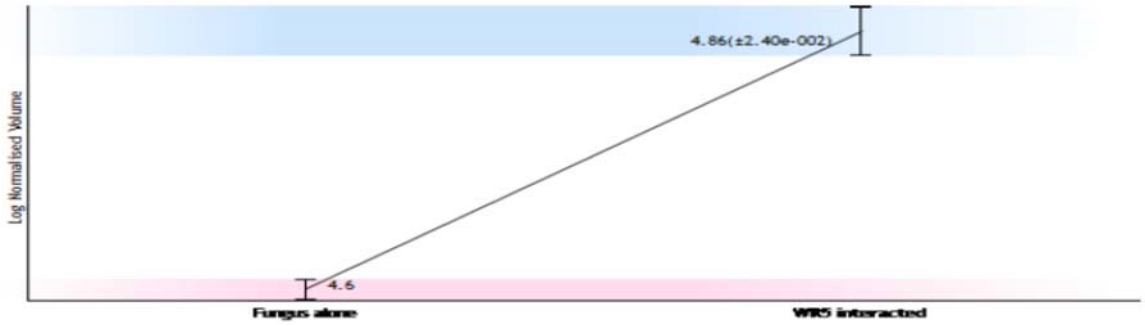


Identifier 406

Position (287, 999)

Notes

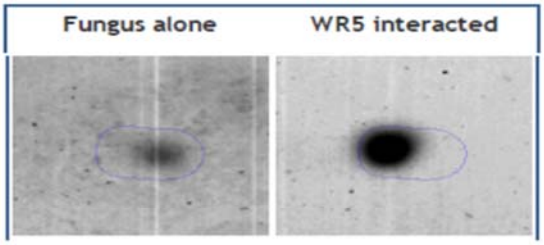


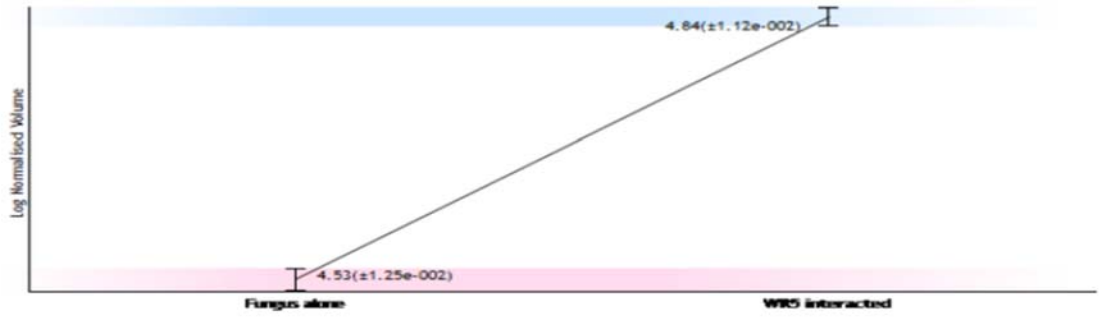


Identifier 416

Position (927, 1037)

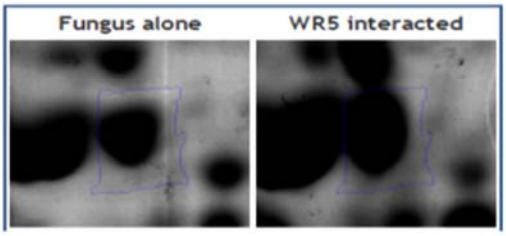
Notes

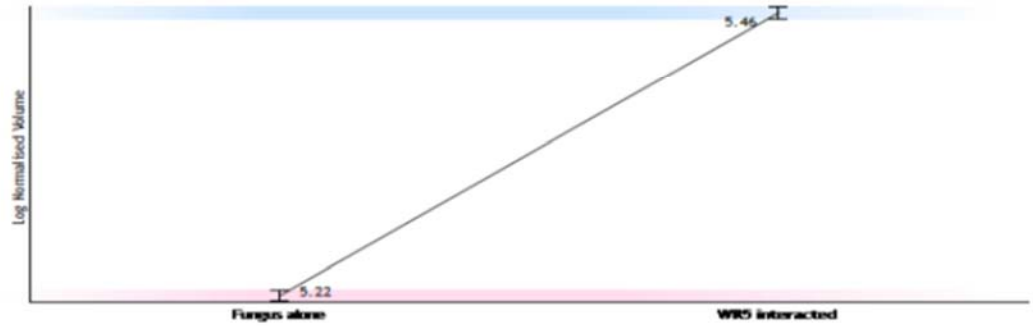




Identifier 332

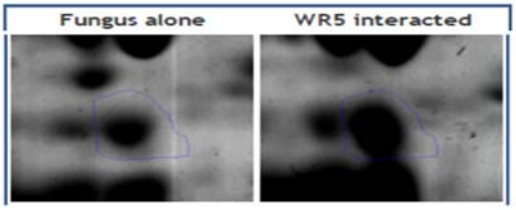
Position (368, 710)
Notes





Identifier 320

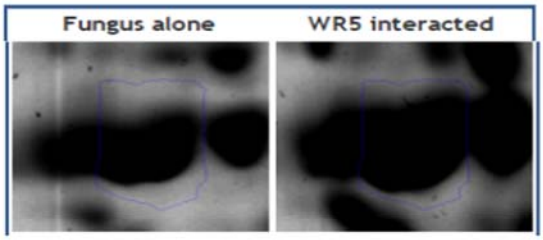
Position (363, 651)
Notes

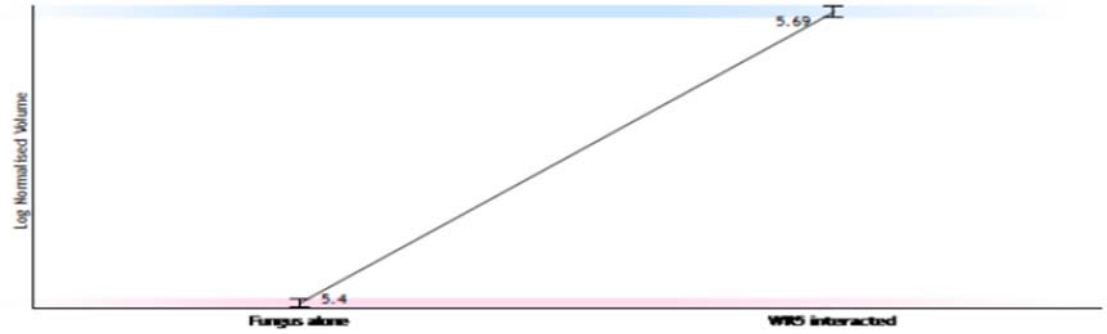


Identifier 342

Position (319, 724)

Notes

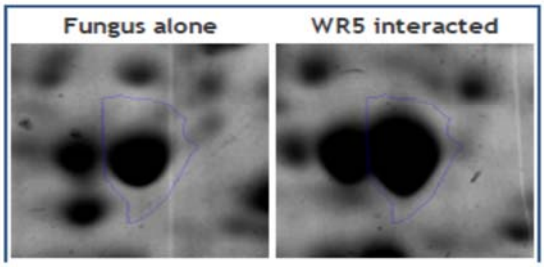


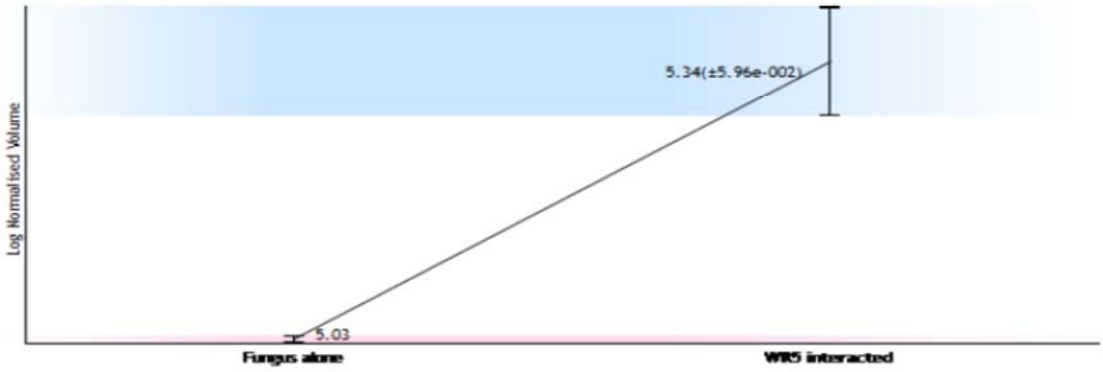


Identifier 287

Position (373, 583)

Notes

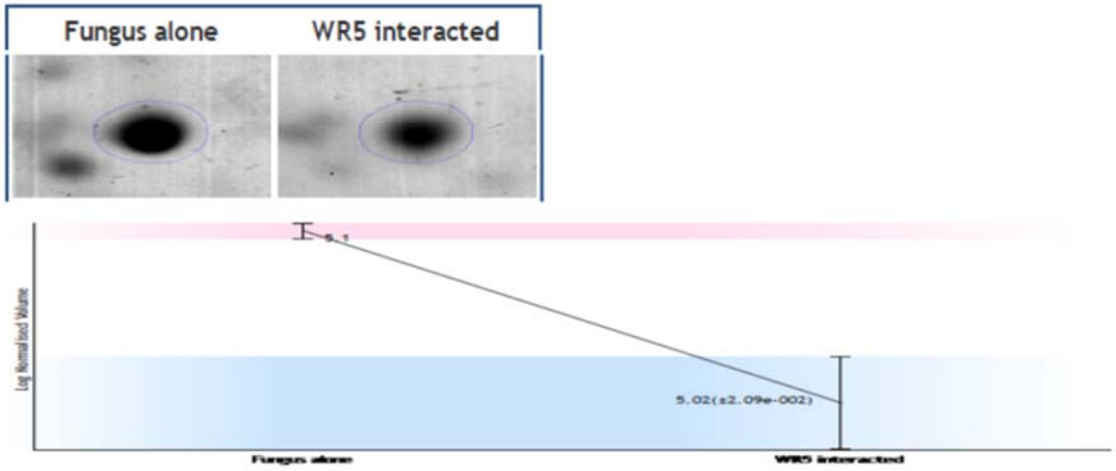




Identifier 428

Position (613, 1084)

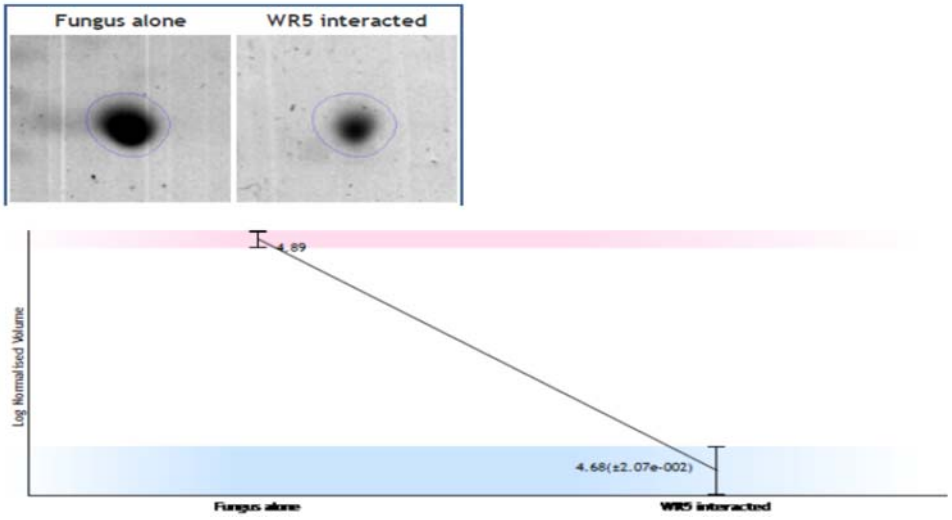
Notes



Identifier 330

Position (965, 701)

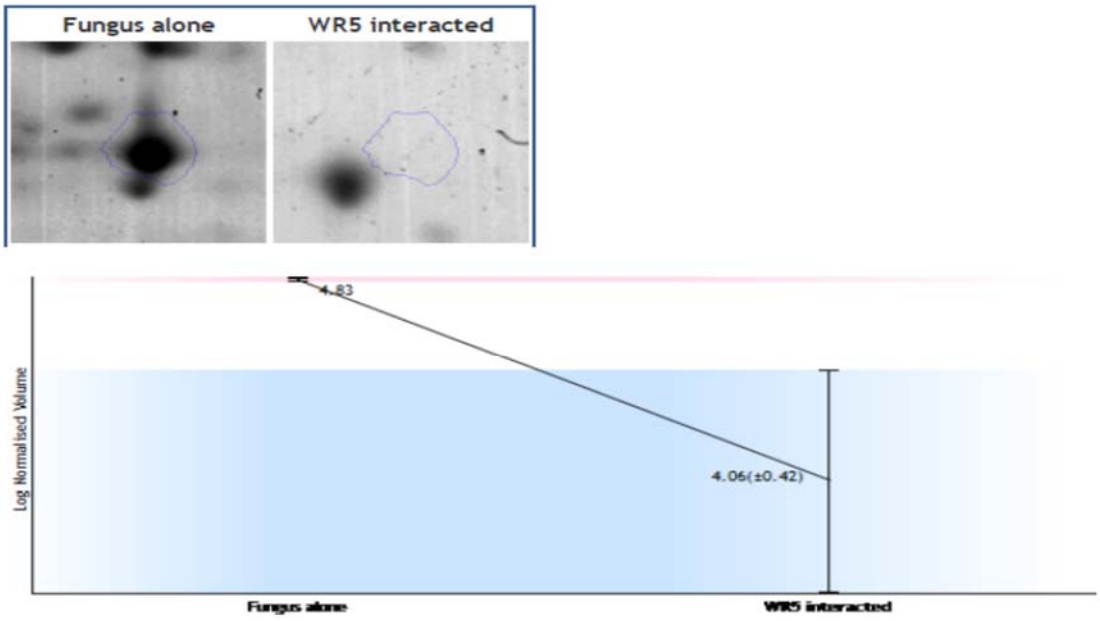
Notes



Identifier 305

Position (858, 623)

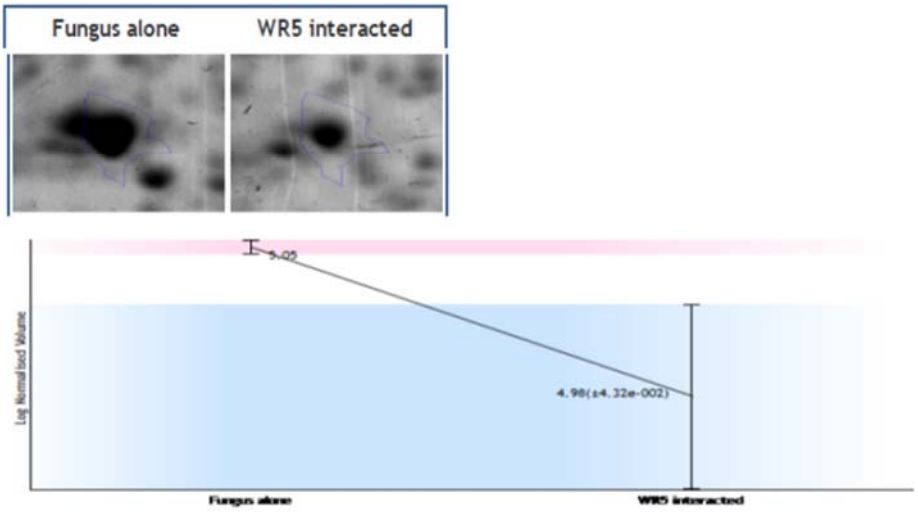
Notes



Identifier 296

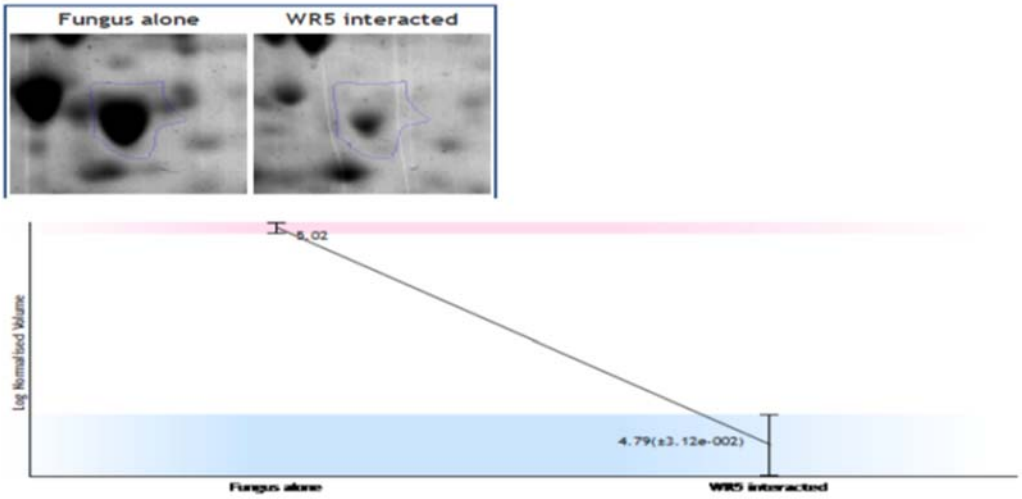
Position (481, 606)

Notes



Identifier 207

Position (442, 427)
Notes



Identifier 198

Position (398, 406)
Notes

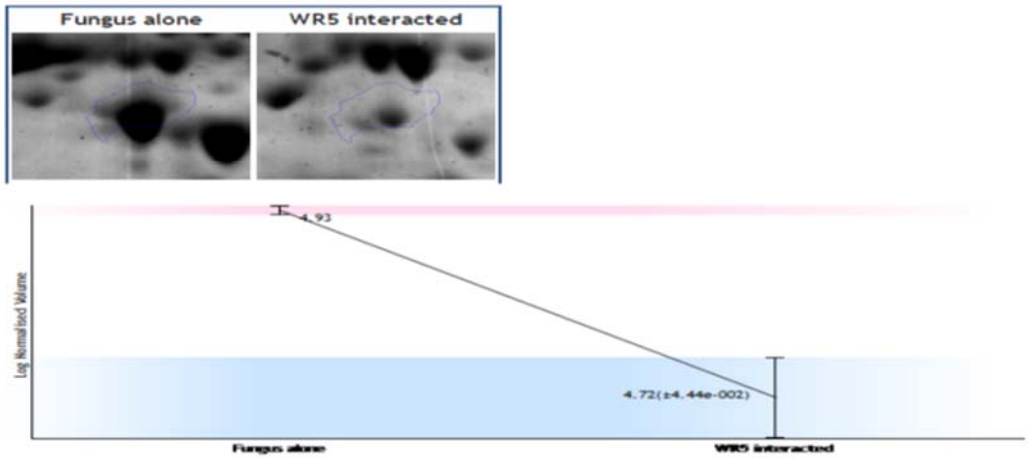
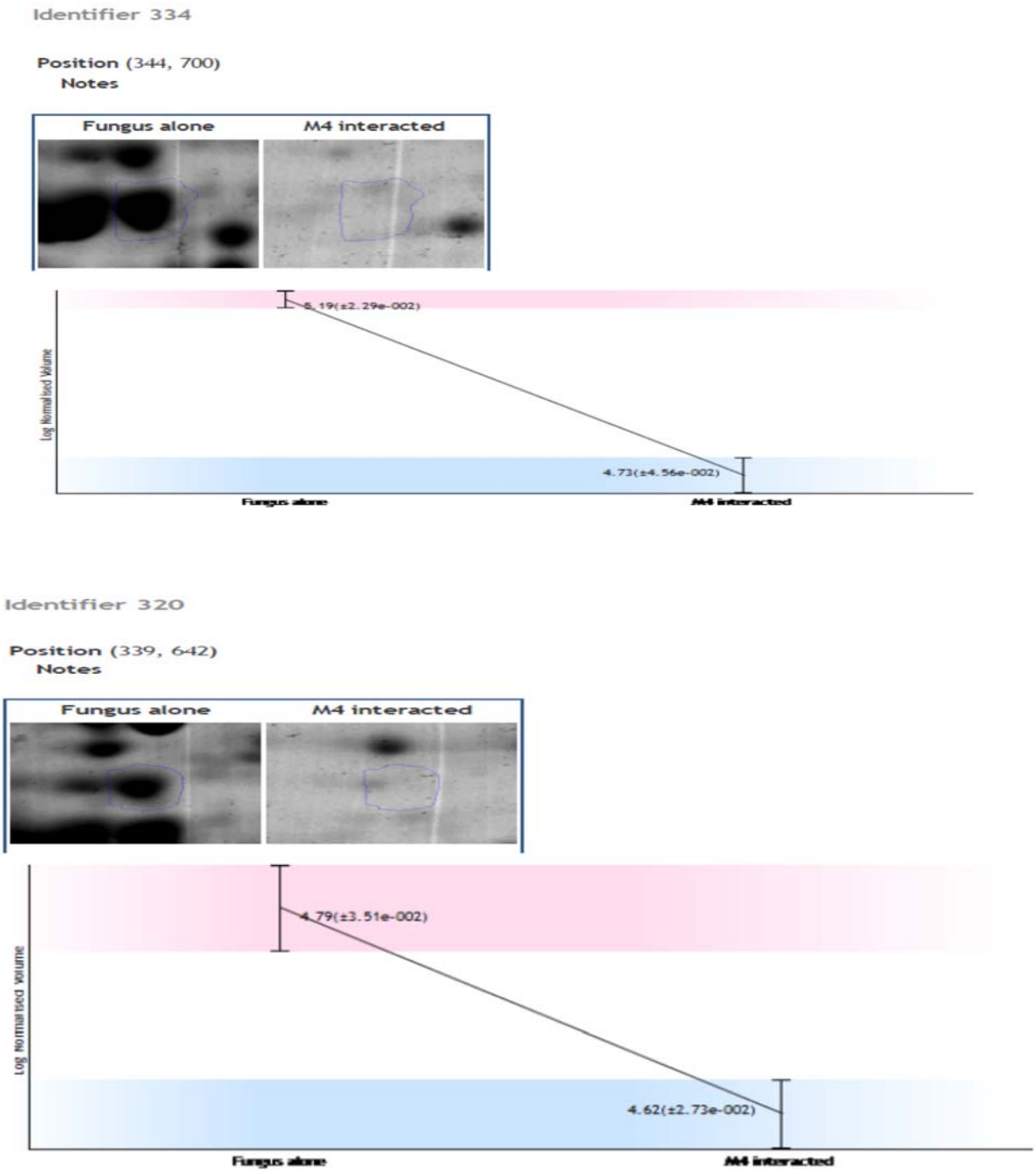


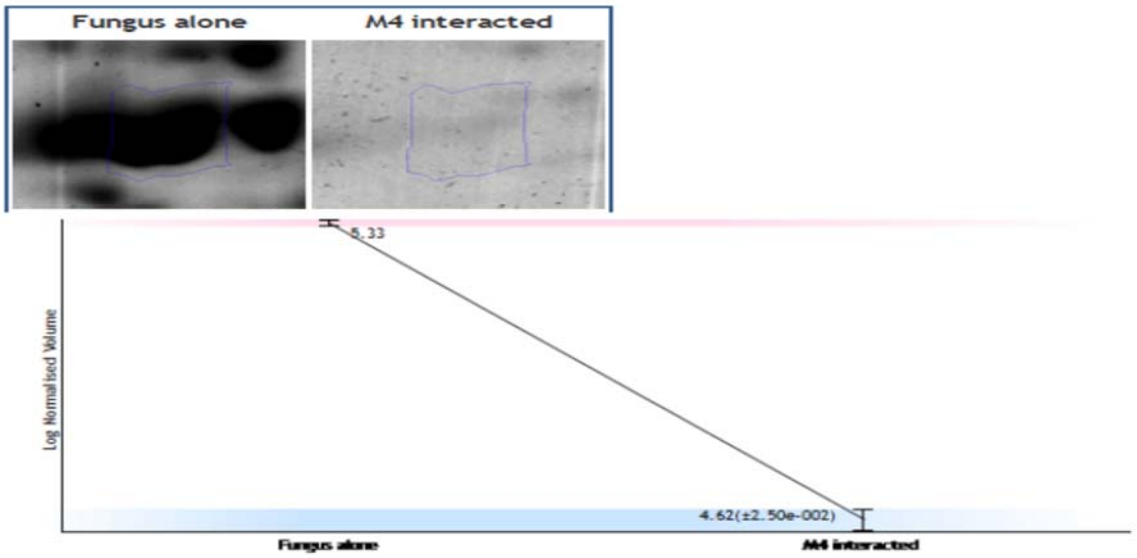
Figure S4. A list of protein spots identifier number, that exhibit a drastic change in expression fold level in M4-treated fungus analyzed pairwise between control and M4-treated *P. indica* using Progenesis SameSpots analysis software.



Identifier 341

Position (295, 716)

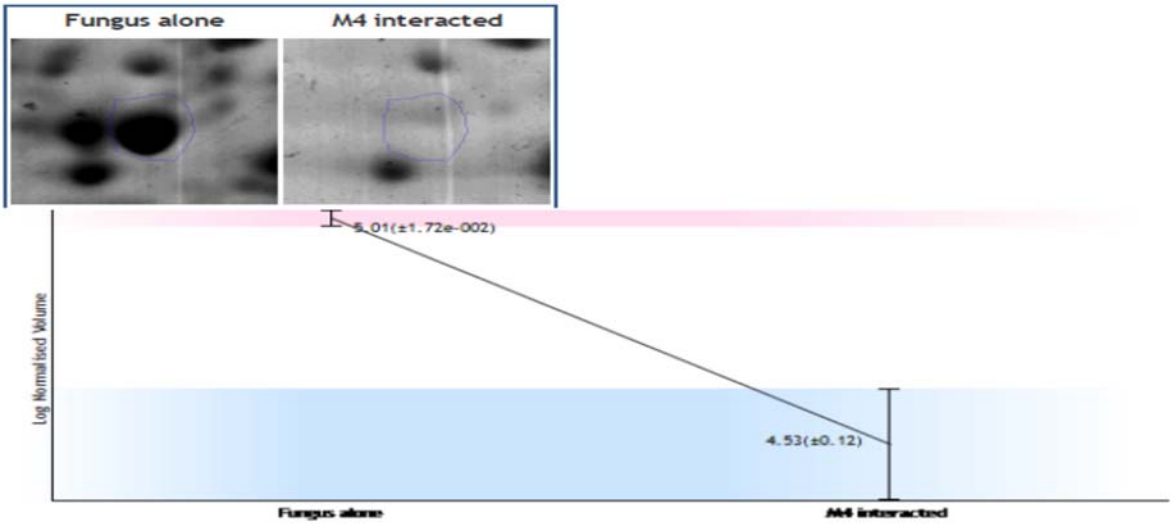
Notes



Identifier 292

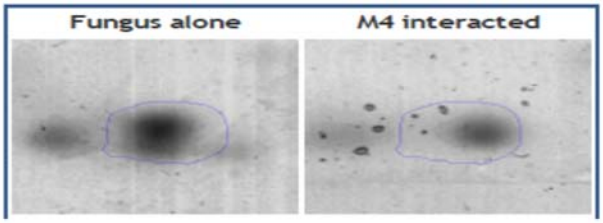
Position (349, 574)

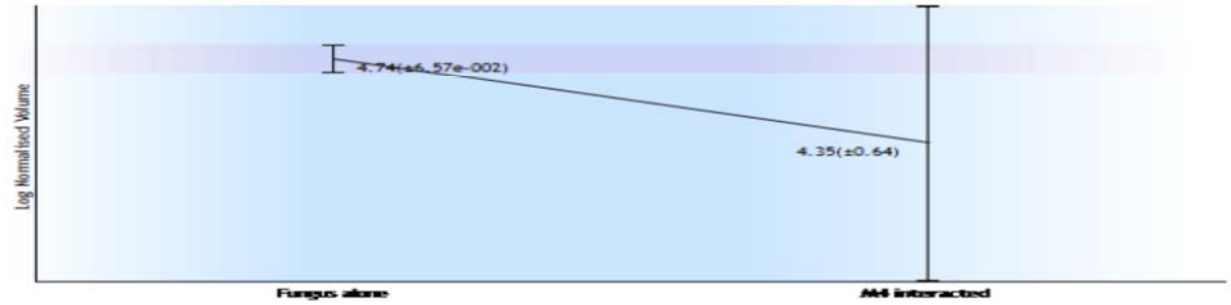
Notes



Identifier 452

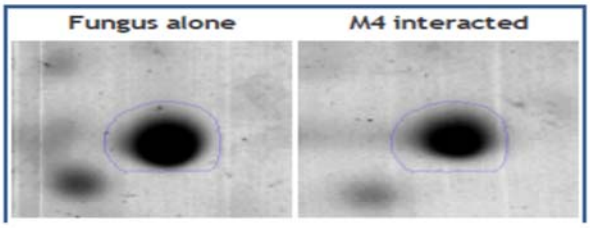
Position (690, 1166)
Notes

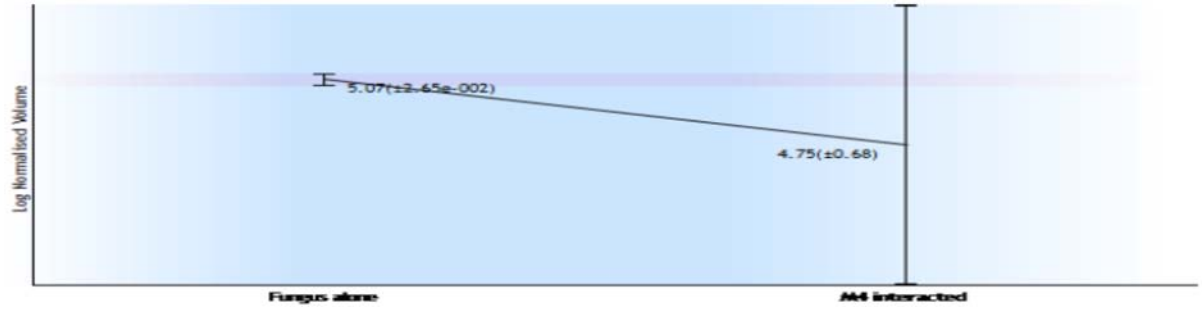




Identifier 422

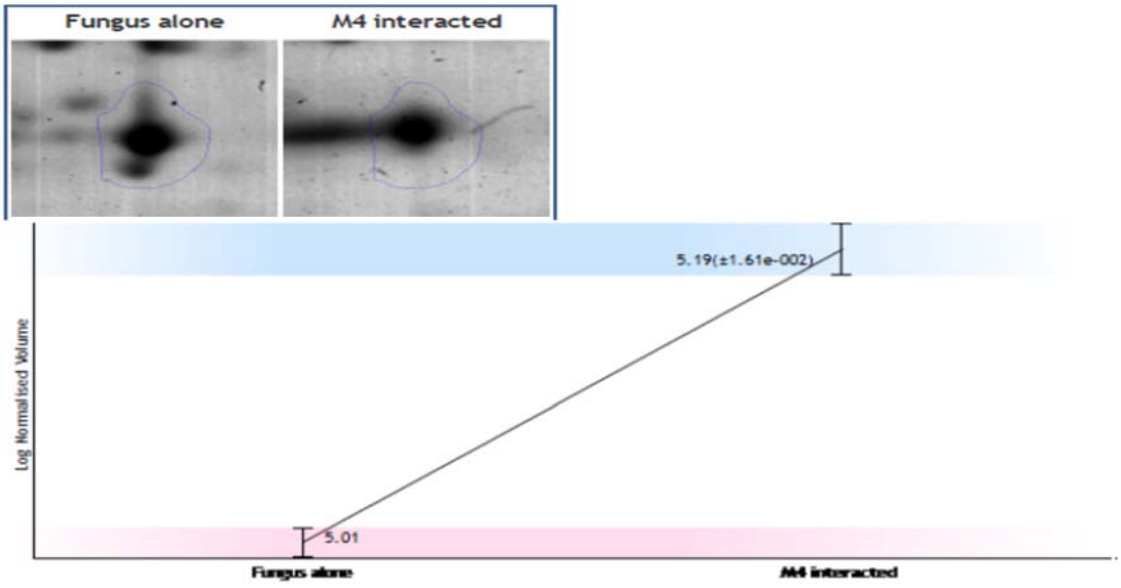
Position (588, 1076)
Notes





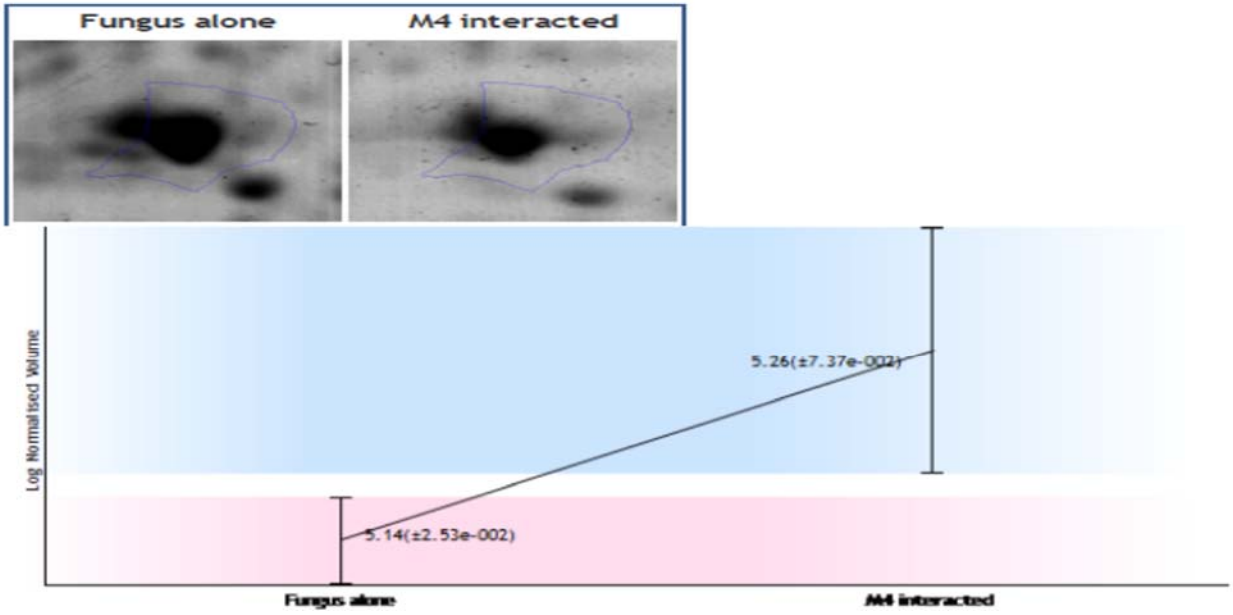
Identifier 309

Position (833, 614)
Notes



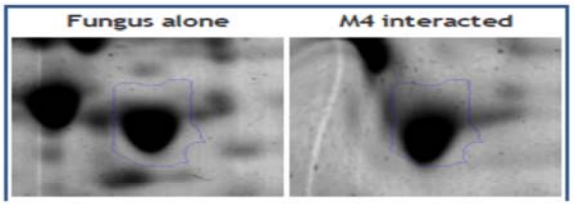
Identifier 301

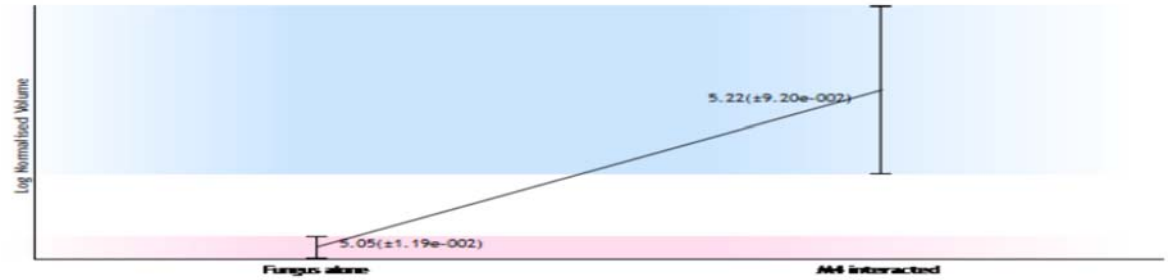
Position (435, 602)
Notes



Identifier 210

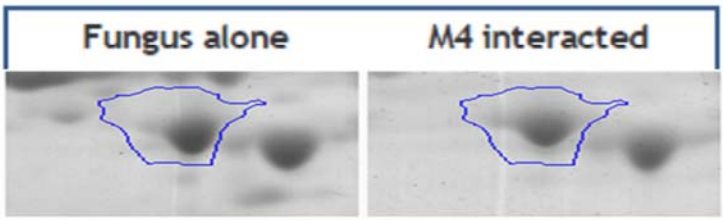
Position (418, 420)
Notes





Identifier 198

Position (371, 402)
Notes



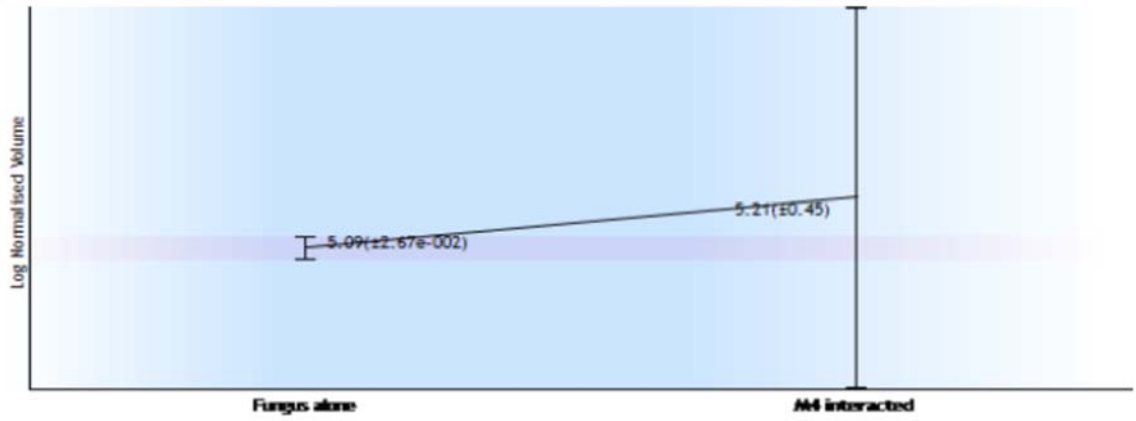


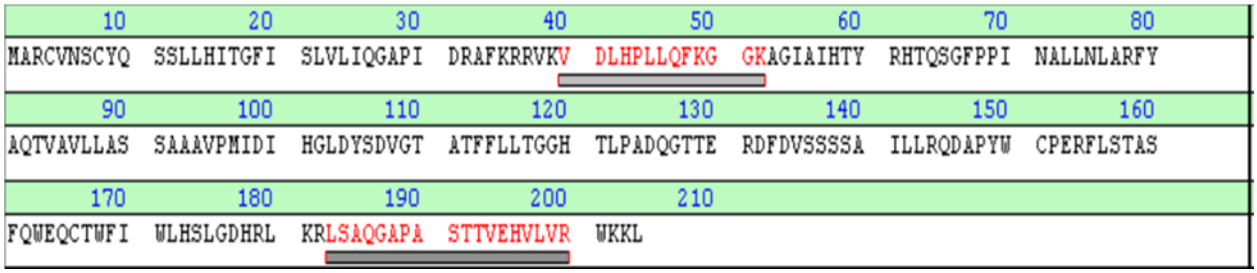
Figure S5. The matched peptide list of total sixteen protein spots identified through MALDI-TOF/MS of all three groups.

Spot number 3Wu

hypothetical protein PIIN_09126 *[Piriformospora indica* DSM 11827]

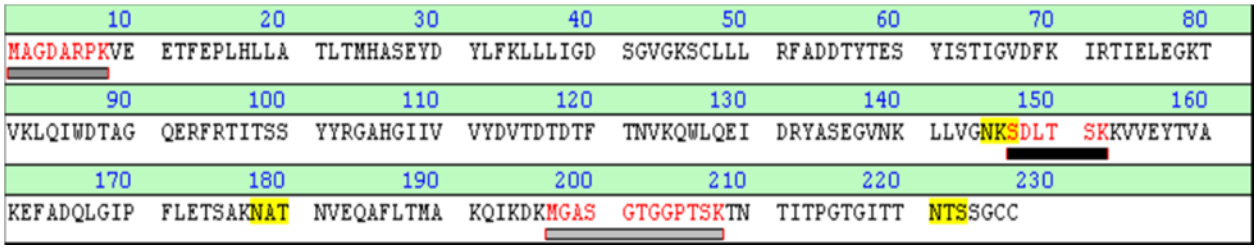
Spot number 4Wu/4M

hypothetical protein PIIN_04261 [*Piriformospora indica* DSM 11827]



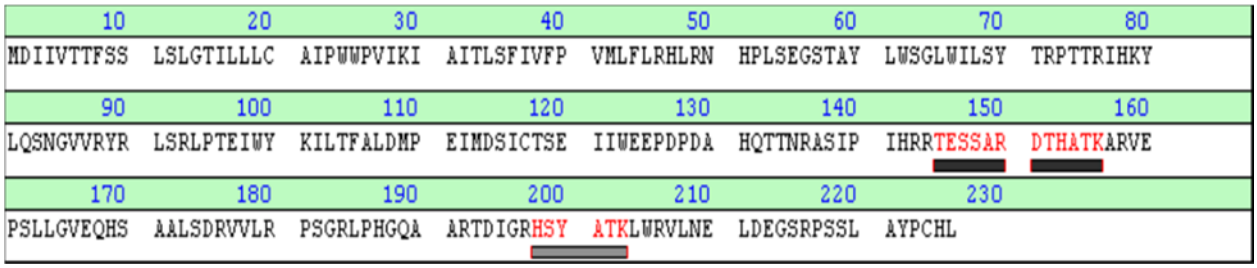
Spot number 6Wu

related to YPT-1 GTP-binding protein ypt1 [*Piriformospora indica* DSM 11827]



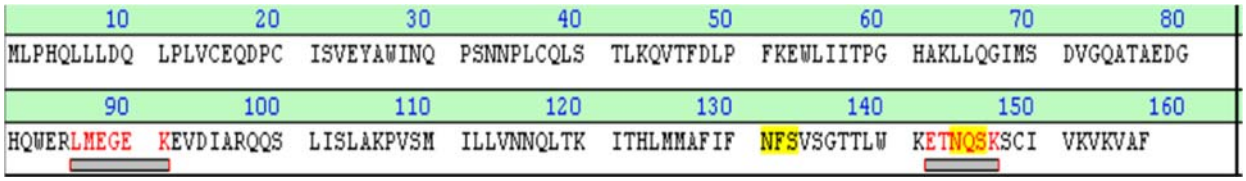
Spot number 8Wu

hypothetical protein PIIN_10216 [*Piriformospora indica* DSM 11827]



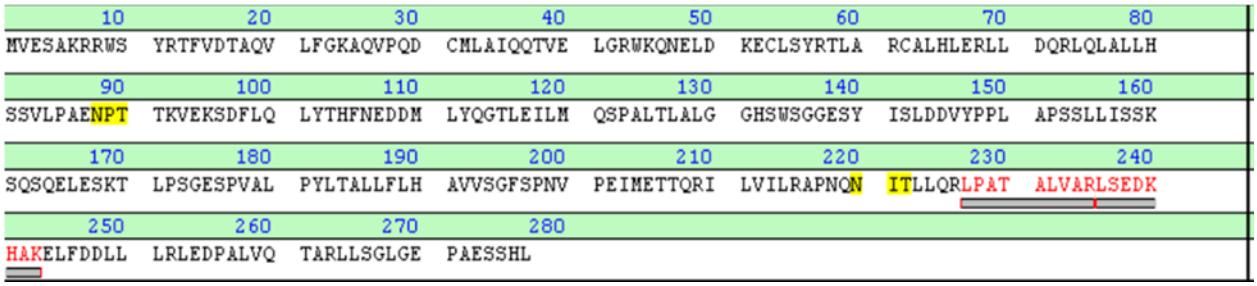
Spot number 9Wu

predicted protein [*Laccaria bicolor* S238N-H82]



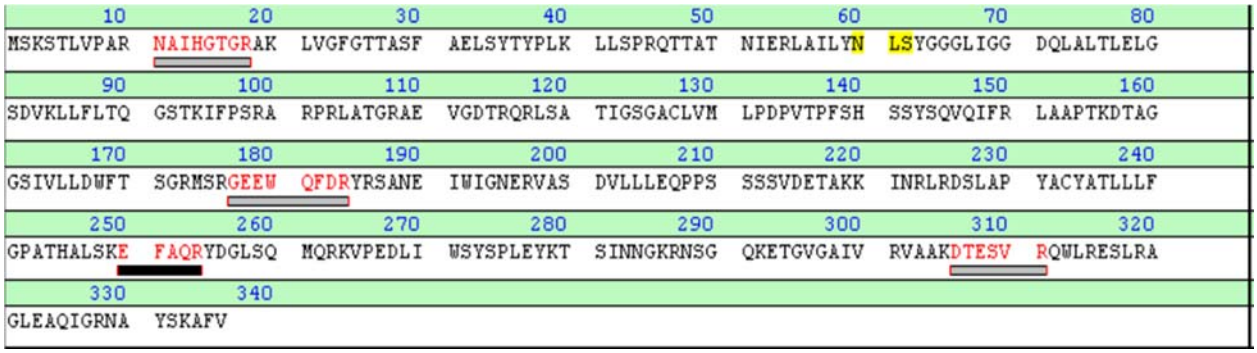
Spot number 11Wu

hypothetical protein PIIN_02973 [*Piriformospora indica* DSM 11827]



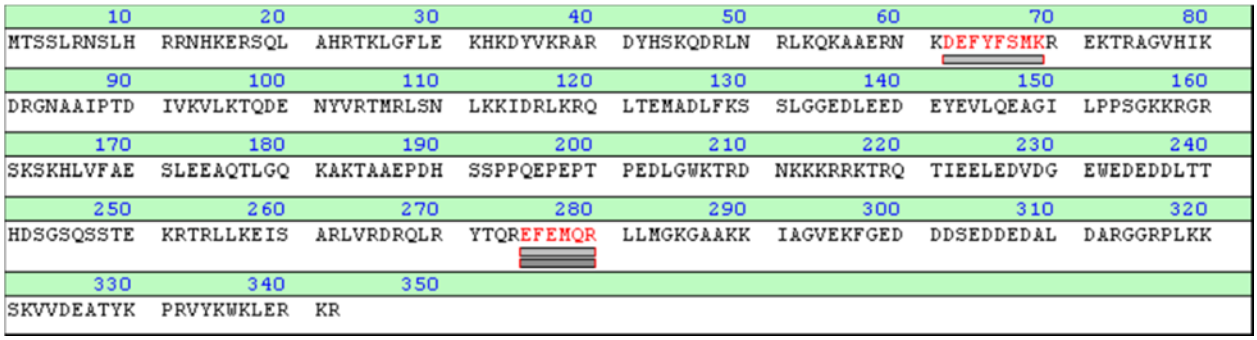
Spot number 17Wu/17Fc

hypothetical protein PIIN_05768 [*Piriformospora indica* DSM 11827]



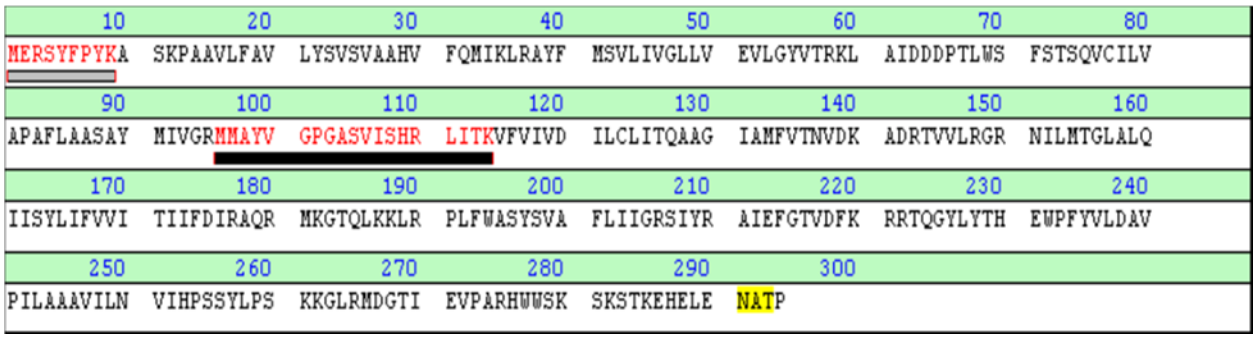
Spot number 18Wu/18Fc

u3 small nucleolar RNA-associated protein 11 [*Coprinopsis cinerea* okayama7#130]



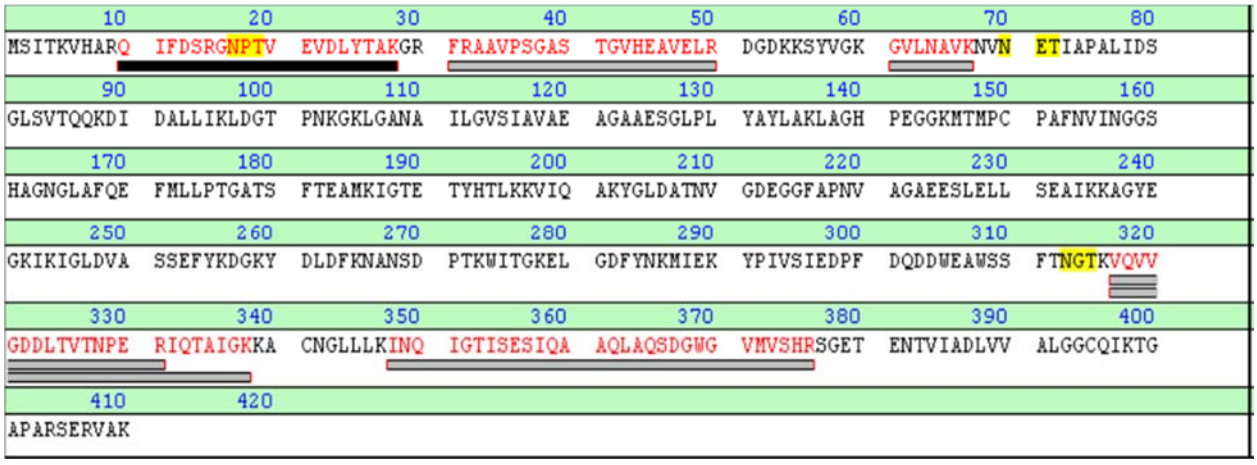
Spot number 19Wu/19Fc

related to RTM1 protein [*Piriformospora indica* DSM 11827]



Spot number 21Wu/21Fc

probable ENO1-enolase I (2-phosphoglycerate dehydratase) [*Piriformospora indica* DSM 11827]

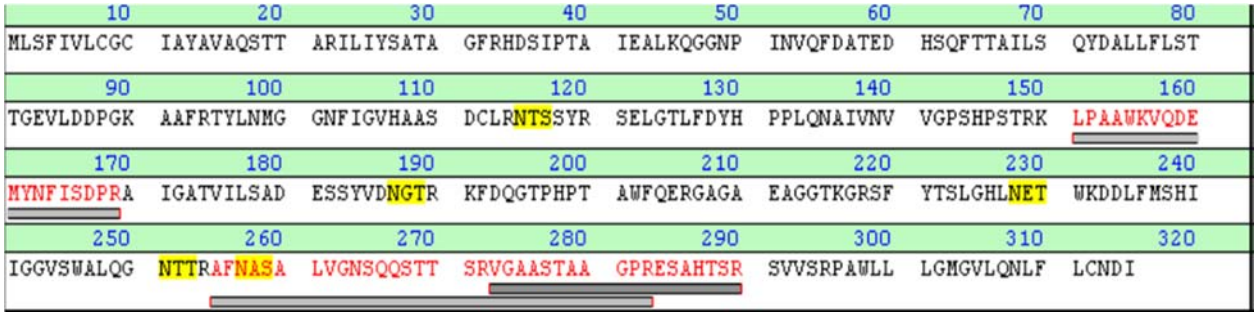


Spot number 5Wd/5M

G protein alpha-subunit [*Laccaria bicolor* S238N-H82]

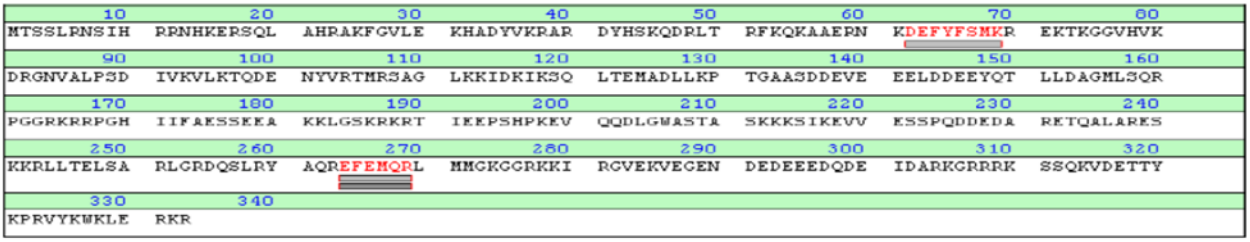
Spot number 12Wd/12M

predicted protein [*Laccaria bicolor* S238N-H82]



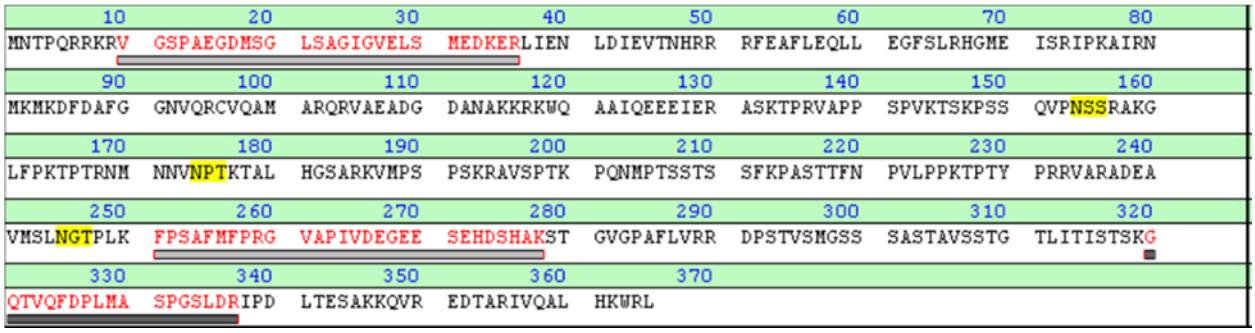
Spot number 13Wd/13Mu

predicted protein [*Laccaria bicolor* S238N-H82]



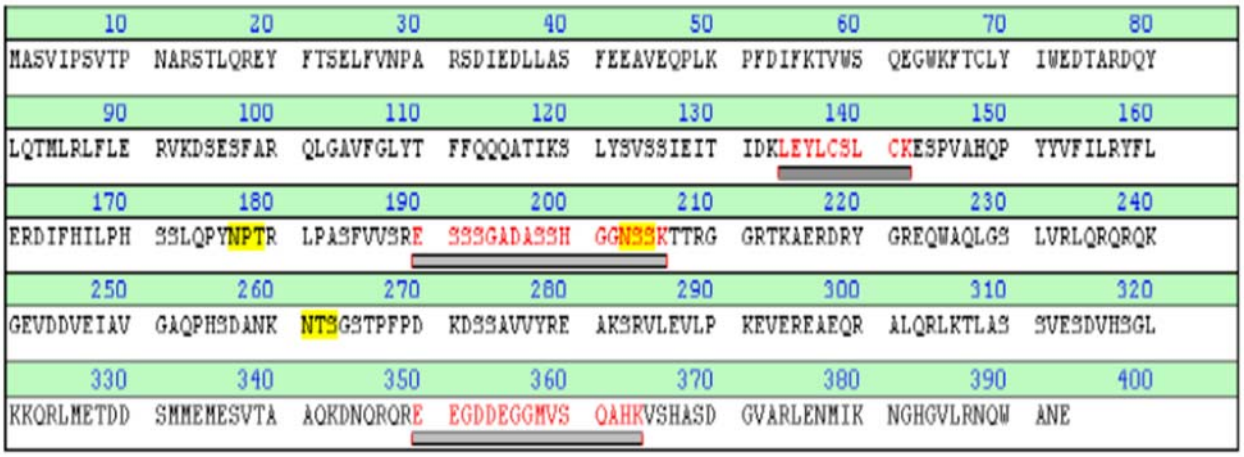
Spot number 20Wd/20Mu

hypothetical protein PIIN_01661 [*Piriformospora indica* DSM 11827]



Spot number 22Wd/22Mu

hypothetical protein PIIN_01521 [Piriformospora indica DSM 11827]



Spot number 23Wd/23M

hypothetical protein PIIN_03309 [*Piriformospora indica* DSM 11827]