Supplementary Table 3. Top 20 up- and down-regulated DEGs in *P. fallax* mycorrhizal Scots pine root tips and extraradical mycelia, growing with either alanine or ammonia as the N source.

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| --- | --- | --- | --- |
| Gene ID | logFC | Contrast | Annotation (GO or EC number) |
| 12793 | 8.29 | AlaTip vs. NH4ClTip | Not annotated |
| 400435 | 8.28 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 41006 | 8.07 | AlaMyc vs. NH4ClMyc | 6.2.1.12 4-coumarate--CoA ligase |
| 11903 | 7.94 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 820294 | 7.81 | AlaTip vs. AlaMyc | Not annotated |
| 829771 | 7.69 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 790767 | 7.63 | AlaMyc vs. NH4ClMyc | Not annotated |
| 99075 | 7.61 | AlaTip vs. NH4ClTip | GO:0000287 Magnesium ion binding |
| 425828 | 7.46 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 811201 | 7.40 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 532544 | 7.25 | AlaTip vs. AlaMyc | Not annotated |
| 810741 | 7.18 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 753 | 7.18 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 226327 | 7.16 | AlaTip vs. NH4ClTip | Not annotated |
| 819179 | 6.86 | AlaTip vs. NH4ClTip | 2.7.8.17 UDP-N-acetylglucosamine--lysosomal-enzyme N-acetylglucosaminephosphotransferase |
| 810286 | 6.80 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 815479 | 6.74 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 825606 | 6.66 | AlaTip vs. AlaMyc | Not annotated |
| 114217 | 6.41 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 810286 | 6.37 | AlaMyc vs. NH4ClMyc | Not annotated |
| 8339 | -11.31 | NH4ClTip vs. NH4ClMyc | 1.1.1.1 Alcohol dehydrogenase |
| 13521 | -10.38 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 14266 | -10.55 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 15241 | -10.13 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 58439 | -9.57 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 63076 | -11.27 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 83089 | -10.64 | NH4ClTip vs. NH4ClMyc | GO:0000272 Polysaccharide catabolic process |
| 92541 | -11.29 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 194657 | -10.35 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 254217 | -9.47 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 293090 | -9.61 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 501093 | -11.08 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 529056 | -12.90 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 662222 | -9.51 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 716660 | -10.01 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 814689 | -9.48 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 817049 | -11.73 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 822737 | -10.04 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 824915 | -9.68 | NH4ClTip vs. NH4ClMyc | Not annotated |
| 825980 | -9.64 | AlaTip vs. NH4ClTip | Not annotated |