|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 1: List of accession used in analysis** | | | | | | | | | |
| **Accession** |  |  | **Paired/Single Sequencing** | **Replicate** | **Tissue** | **Description** | **total reads** | **mapped reads** | **Ref** |
| *Run1* | *Run2* | *Run3* |  |  |  |  |  |  |  |
| SRR5177530 |  |  | paired | rep1 | Hypha | Vegetative hypha | 32325580 | 31741851 | (1) |
| SRR5177529 |  |  | paired | rep2 | Hypha | Vegetative hypha | 38796027 | 38146518 | (1) |
| SRR5177528 |  |  | paired | rep1 | Perithecia | 3-dpf Perithecia | 27664762 | 26741407 | (1) |
| SRR5177527 |  |  | paired | rep2 | Perithecia | 3-dpf Perithecia | 32857537 | 31242712 | (1) |
| SRR5177526 |  |  | paired | rep1 | Perithecia | 4-dpf Perithecia | 35768086 | 31463412 | (1) |
| SRR5177525 |  |  | paired | rep2 | Perithecia | 4-dpf Perithecia | 37853182 | 35392322 | (1) |
| SRR5177524 |  |  | paired | rep1 | Perithecia | 5-dpf Perithecia | 35942321 | 33844670 | (1) |
| SRR5177522 |  |  | paired | rep1 | Perithecia | 6-dpf Perithecia | 37050858 | 35631548 | (1) |
| SRR5177521 |  |  | paired | rep2 | Perithecia | 6-dpf Perithecia | 33168301 | 31397580 | (1) |
| SRR400660 |  |  | single | rep3 | mycelium | Sucrose 4h | 67488726 | 65138966 | (2) |
| SRR400659 |  |  | single | rep2 | mycelium | Sucrose 4h | 91200470 | 86830127 | (2) |
| SRR400658 |  |  | single | rep1 | mycelium | Sucrose 4h | 14805960 | 14150647 | (2) |
| SRR400657 |  |  | single | rep3 | mycelium | Sucrose 1h | 79141911 | 71683811 | (2) |
| SRR400656 |  |  | single | rep2 | mycelium | Sucrose 1h | 85948194 | 79236659 | (2) |
| SRR400655 |  |  | single | rep1 | mycelium | Sucrose 1h | 20033088 | 19207525 | (2) |
| SRR400654 |  |  | single | rep3 | mycelium | No carbon 4h | 185052310 | 177218220 | (2) |
| SRR400653 |  |  | single | rep2 | mycelium | No carbon 4h | 186502846 | 177721133 | (2) |
| SRR400652 |  |  | single | rep1 | mycelium | No carbon 4h | 65277122 | 60153039 | (2) |
| SRR400651 |  |  | single | rep3 | mycelium | No carbon 1h | 70273990 | 63679879 | (2) |
| SRR400650 |  |  | single | rep3 | mycelium | Avicel 4h | 61959507 | 59094103 | (2) |
| SRR400649 |  |  | single | rep2 | mycelium | Avicel 4h | 67436200 | 63365999 | (2) |
| SRR400648 |  |  | single | rep1 | mycelium | Avicel 4h | 14246506 | 13675648 | (2) |
| SRR400647 |  |  | single | rep1 | mycelium | Avicel 30min | 23467362 | 22616184 | (2) |
| SRR400646 |  |  | single | rep1 | mycelium | Avicel 2h | 25069798 | 24275536 | (2) |
| SRR400645 |  |  | single | rep3 | mycelium | Avicel 1h | 88526620 | 81761225 | (2) |
| SRR400644 |  |  | single | rep2 | mycelium | Avicel 1h | 84325373 | 78346622 | (2) |
| SRR400643 |  |  | single | rep1 | mycelium | Avicel 1h | 20228437 | 19259645 | (2) |
| SRR2007029 |  |  | single | rep3 | mycelium | 16h VMM 4h Xylan | 22608464 | 21342162 | (3) |
| SRR2007028 |  |  | single | rep2 | mycelium | 16h VMM 4h Xylan | 18819307 | 17662424 | (3) |
| SRR2007027 |  |  | single | rep1 | mycelium | 16h VMM 4h Xylan | 12374053 | 11561412 | (3) |
| SRR447485 |  |  | single | rep3 | mycelium | Sucrose 4h | 67488723 | 65138965 | (4) |
| SRR447484 |  |  | single | rep2 | mycelium | Sucrose 4h | 91200355 | 86830013 | (4) |
| SRR447483 |  |  | single | rep1 | mycelium | Sucrose 4h | 14805960 | 14150646 | (4) |
| SRR447482 |  |  | single | rep3 | mycelium | No Carbon 4h | 185052218 | 177218129 | (4) |
| SRR447481 |  |  | single | rep2 | mycelium | No Carbon 4h | 186502844 | 177721131 | (4) |
| SRR447480 |  |  | single | rep1 | mycelium | No Carbon 4h | 65277117 | 60153036 | (4) |
| SRR447479 |  |  | single | rep3 | mycelium | Avicel 4h | 61959510 | 59094107 | (4) |
| SRR447478 |  |  | single | rep2 | mycelium | Avicel 4h | 67436197 | 63365998 | (4) |
| SRR447477 |  |  | single | rep1 | mycelium | Avicel 4h | 14246506 | 13675648 | (4) |
| SRR447473 |  |  | single | rep1 | mycelium | Cellobiose 4h | 70608426 | 67455130 | (4) |
| SRR585669 |  |  | single | rep1 | Perithecia | Perithecia 0hr | 24981907 | 23189227 | (5) |
| SRR585670 |  |  | single | rep1 | Perithecia | Perithecia 2hr | 32130912 | 30286211 | (5) |
| SRR585671 |  |  | single | rep1 | Perithecia | Perithecia 24hr | 32221403 | 31007945 | (5) |
| SRR585672 |  |  | single | rep1 | Perithecia | Perithecia 48hr | 28317548 | 24735658 | (5) |
| SRR585673 |  |  | single | rep1 | Perithecia | Perithecia 72hr | 31035523 | 28866840 | (5) |
| SRR585674 |  |  | single | rep1 | Perithecia | Perithecia 96hr | 23368271 | 22844060 | (5) |
| SRR585675 |  |  | single | rep1 | Perithecia | Perithecia 120hr | 33366395 | 31245060 | (5) |
| SRR585676 |  |  | single | rep1 | Perithecia | Perithecia 144hr | 28306227 | 27752150 | (5) |
| SRR585661 |  |  | single | rep1 | Perithecia | Perithecia 0hr | 25772659 | 15288602 | (5) |
| SRR585662 |  |  | single | rep1 | Perithecia | Perithecia 2hr | 29504208 | 18864166 | (5) |
| SRR585663 |  |  | single | rep1 | Perithecia | Perithecia 24hr | 25566769 | 15351629 | (5) |
| SRR585664 |  |  | single | rep1 | Perithecia | Perithecia 48hr | 24823248 | 14953684 | (5) |
| SRR585665 |  |  | single | rep1 | Perithecia | Perithecia 72hr | 26994389 | 17762032 | (5) |
| SRR585666 |  |  | single | rep1 | Perithecia | Perithecia 96hr | 25083301 | 16523959 | (5) |
| SRR585667 |  |  | single | rep1 | Perithecia | Perithecia 120hr | 28724370 | 17350970 | (5) |
| SRR585668 |  |  | single | rep1 | Perithecia | Perithecia 144hr | 25062103 | 14640015 | (5) |
| SRR1562554 |  |  | single | rep1 | Mycelium | Sucrose 16 h | 25360474 | 24814760 | (6) |
| SRR1562553 |  |  | single | rep1 | Mycelium | WheatStraw 30 h | 24791246 | 24310708 | (6) |
| SRR1562552 |  |  | single | rep1 | Mycelium | SoybeanStraw 30 h | 24794780 | 24289408 | (6) |
| SRR1562551 |  |  | single | rep1 | Mycelium | RiceStraw 30 h | 25264219 | 24784739 | (6) |
| SRR1562550 |  |  | single | rep1 | Mycelium | CornStraw 30 h | 23828112 | 23317926 | (6) |
| SRR1562549 |  |  | single | rep1 | Mycelium | BarleyStraw 30 h | 23667296 | 23204861 | (6) |
| SRR676517 |  |  | single | rep1 | Mycelium | No Carbon | 65277117 | 60153035 | (7) |
| SRR676518 |  |  | single | rep2 | Mycelium | No Carbon | 186502844 | 177721130 | (7) |
| SRR676519 |  |  | single | rep3 | Mycelium | No Carbon | 185052357 | 177218259 | (7) |
| SRR676514 |  |  | single | rep1 | Mycelium | Avicel | 14246506 | 13675648 | (7) |
| SRR676515 |  |  | single | rep2 | Mycelium | Avicel | 67436207 | 63366006 | (7) |
| SRR676516 |  |  | single | rep3 | Mycelium | Avicel | 61959507 | 59094103 | (7) |
| SRR1055994 |  |  | single | rep2 | Mycelium | 240 min light exposure | 16960890 | 10220915 | (8) |
| SRR1055993 |  |  | single | rep2 | Mycelium | 120 min light exposure | 15835594 | 12274447 | (8) |
| SRR1055992 |  |  | single | rep2 | Mycelium | 60 min light exposure | 15914674 | 12576574 | (8) |
| SRR1055991 |  |  | single | rep2 | Mycelium | 15 min light exposure | 14691061 | 11862170 | (8) |
| SRR1055990 |  |  | single | rep2 | Mycelium | Dark only | 16821169 | 13390393 | (8) |
| SRR1055989 |  |  | single | rep1 | Mycelium | 240 min light exposure | 48622071 | 40260120 | (8) |
| SRR1055988 |  |  | single | rep1 | Mycelium | 120 min light exposure | 43562430 | 38205249 | (8) |
| SRR1055987 |  |  | single | rep1 | Mycelium | 60 min light exposure | 47560747 | 40972059 | (8) |
| SRR1055986 |  |  | single | rep1 | Mycelium | 15 min light exposure | 41288186 | 35658304 | (8) |
| SRR1055985 |  |  | single | rep1 | Mycelium | Dark only | 43738233 | 37668579 | (8) |
| SRR627948 |  |  | single | rep3 | mycelium | Sucrose 4h | 67488722 | 65138963 | (9) |
| SRR627947 |  |  | single | rep2 | mycelium | Sucrose 4h | 91200477 | 86830134 | (9) |
| SRR627946 |  |  | single | rep1 | mycelium | Sucrose 4h | 14805960 | 14150647 | (9) |
| SRR627945 |  |  | single | rep3 | mycelium | No Carbon 4h | 185049503 | 177215406 | (9) |
| SRR627944 |  |  | single | rep2 | mycelium | No Carbon 4h | 186502847 | 177721139 | (9) |
| SRR627943 |  |  | single | rep1 | mycelium | No Carbon 4h | 65277119 | 60153037 | (9) |
| SRR627942 |  |  | single | rep3 | mycelium | Avicel 4h | 61959510 | 59094107 | (9) |
| SRR627941 |  |  | single | rep2 | mycelium | Avicel 4h | 67436198 | 63365999 | (9) |
| SRR627940 |  |  | single | rep1 | mycelium | Avicel 4h | 14246506 | 13675648 | (9) |
| SRR627939 |  |  | single | rep1 | mycelium | Xylan 4h | 12374054 | 11561077 | (9) |
| SRR627938 |  |  | single | rep2 | mycelium | Orange Peel Powder 4h | 150008421 | 141772267 | (9) |
| SRR627937 |  |  | single | rep1 | mycelium | Orange Peel Powder 4h | 153619422 | 144815067 | (9) |
| SRR627936 |  |  | single | rep3 | mycelium | Pectin 4h | 143287245 | 138072441 | (9) |
| SRR627935 |  |  | single | rep2 | mycelium | Pectin 4h | 125365883 | 118403906 | (9) |
| SRR627934 |  |  | single | rep1 | mycelium | Pectin 4h | 138390353 | 132239214 | (9) |
| SRR8315453 |  |  | single | rep1 | Mycelium | No Iron | 12654417 | 12263988 | (10) |
| SRR8315454 |  |  | single | rep2 | Mycelium | No Iron | 12908947 | 12472334 | (10) |
| SRR8315449 |  |  | single | rep1 | Mycelium | Std cond | 14630354 | 14075998 | (10) |
| SRR8315450 |  |  | single | rep2 | Mycelium | Std cond | 14005650 | 13542577 | (10) |
| SRR8065400 | SRR8065401 |  | paired | rep2 | Mycelium | constant light 24 h- dark for 24 h - 30 min of constant light | 62076792 | 31429902 | (11) |
| SRR8065399 | SRR8065398 |  | paired | rep1 | Mycelium | constant light 24 h- dark for 24 h - 30 min of constant light | 66436386 | 42416775 | (11) |
| SRR8065397 | SRR8065396 |  | paired | rep2 | Mycelium | constant light 24 h- dark for 24 h | 80518911 | 22825098 | (11) |
| SRR8065395 | SRR8065394 |  | paired | rep1 | Mycelium | constant light 24 h- dark for 24 h | 72457057 | 18053826 | (11) |
| SRR2952644 |  |  | single | rep1 | conidia | VMM + Chitosan 16h | 181254563 | 175514293 | (12) |
| SRR2952643 |  |  | single | rep1 | conidia | VMM + Chitosan 8h | 196561030 | 192029011 | (12) |
| SRR2952642 |  |  | single | rep1 | conidia | VMM with chitosan 4 h | 202093822 | 197806834 | (12) |
| SRR2952640 |  |  | single | rep1 | conidia | VMM 16h | 201909013 | 197218022 | (12) |
| SRR2952639 |  |  | single | rep1 | conidia | VMM 8h | 206497934 | 203216664 | (12) |
| SRR2952641 |  |  | single | rep1 | conidia | VMM 4h | 202704918 | 198969066 | (12) |
| SRR1594012 |  |  | paired | rep1 | Hypha | VMM + Avicel 36 h + DTT (5mM) for 1 h | 15427238 | 15191294 | (13) |
| SRR1594011 |  |  | paired | rep1 | Hypha | VMM + Avicel 36 h + H2O for 1 h | 16255311 | 16007632 | (13) |
| SRR1594004 |  |  | single | rep1 | Hypha | VMM 16 h + Avicel 4 h + DTT(5mM) for 1 h | 22443031 | 22025488 | (13) |
| SRR1594003 |  |  | single | rep1 | Hypha | VMM 16 h + Avicel 4 h + H2O for 1 h | 22458730 | 22095661 | (13) |
| SRR1594002 |  |  | single | rep1 | Hypha | VMM + Avicel 36 h + tunicamycin (40ug/mL) for 1 h | 23346852 | 22971695 | (13) |
| SRR1594001 |  |  | single | rep1 | Hypha | VMM + Avicel 36 h + tunicamycin (5ug/mL) for 1 h | 24744756 | 24376774 | (13) |
| SRR1594000 |  |  | single | rep1 | Hypha | VMM + Avicel 36 h +DTT (5mM) for 1 h | 24863644 | 24493112 | (13) |
| SRR1593999 |  |  | single | rep1 | Hypha | VMM + Avicel 36 h + DTT (0.1mM) for 1 h | 23434570 | 23062813 | (13) |
| SRR1593998 |  |  | single | rep1 | Hypha | VMM + Avicel 36 h + H2O for 1 h | 25788342 | 25426319 | (13) |
| SRR7082735 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 22 h | 16648414 | 16417655 | (14) |
| SRR7082734 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 20 h | 15864578 | 15597009 | (14) |
| SRR7082733 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 18 h | 7909276 | 7852815 | (14) |
| SRR7082732 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 16 h | 11255900 | 11052456 | (14) |
| SRR7082731 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 14 h | 11809137 | 11629355 | (14) |
| SRR7082730 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 12 h | 15353037 | 15085000 | (14) |
| SRR7082729 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 10 h | 26467666 | 25070029 | (14) |
| SRR7082728 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 8 h | 18891911 | 18058029 | (14) |
| SRR7082727 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 6 h | 24707762 | 23521477 | (14) |
| SRR7082726 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 4 h | 29860606 | 28487792 | (14) |
| SRR7082725 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 2 h | 17575255 | 17028281 | (14) |
| SRR7082724 |  |  | single | rep1 | mycelium | Constant light 6 h - 11 h light/dark cycles - constant dark for 0 h | 28448978 | 27256330 | (14) |
| SRR6764315 |  |  | single | Rep1 | mycelium | 1% BSA No Vogels No Carbon | 35794113 | 35167613 | (15) |
| SRR6764316 |  |  | single | rep2 | mycelium | 1% BSA No Vogels No Carbon | 35575299 | 34966936 | (15) |
| SRR6764319 |  |  | single | rep1 | mycelium | 1% Ground miscanthus No Vogels | 33379046 | 32850733 | (15) |
| SRR6764320 |  |  | single | rep2 | mycelium | 1% Ground miscanthus No Vogels | 37294499 | 36719964 | (15) |
| SRR6764321 |  |  | single | rep3 | mycelium | 1% Ground miscanthus No Vogels | 30240188 | 29753694 | (15) |
| SRR6764326 |  |  | single | rep3 | mycelium | 1% BSA No Vogels No Carbon | 36157642 | 35489853 | (15) |
| SRR6764329 |  |  | single | rep3 | mycelium | 2% Pectin | 34283960 | 33725173 | (15) |
| SRR6764334 |  |  | single | rep2 | mycelium | 2% Pectin | 32432627 | 31954097 | (15) |
| SRR6764333 |  |  | single | rep1` | mycelium | 2% Pectin | 34666626 | 34082198 | (15) |
| SRR6764335 |  |  | single | rep1 | mycelium | 2% Xylan | 32187664 | 31668804 | (15) |
| SRR6764336 |  |  | single | rep2 | mycelium | 2% Xylan | 39860983 | 39272511 | (15) |
| SRR6764337 |  |  | single | rep2 | mycelium | 2% Xylan | 39125428 | 38494188 | (15) |
| SRR5824389 |  |  | paired | rep3 | Hypha | Maple Sap 360 min (first hyphal branching) | 40837707 | 40817766 | (16) |
| SRR5824388 |  |  | paired | rep2 | Hypha | Maple Sap 360 min (first hyphal branching) | 68783543 | 68750513 | (16) |
| SRR5824387 |  |  | paired | rep1 | Hypha | Maple Sap 360 min (first hyphal branching) | 74590618 | 74549934 | (16) |
| SRR5824386 |  |  | paired | rep3 | Hypha | Maple Sap 240 min (doubling of long axis) | 48071661 | 48047279 | (16) |
| SRR5824385 |  |  | paired | rep2 | Hypha | Maple Sap 240 min (doubling of long axis) | 69730768 | 69687995 | (16) |
| SRR5824384 |  |  | paired | rep1 | Hypha | Maple Sap 240 min (doubling of long axis) | 92944494 | 92893753 | (16) |
| SRR5824383 |  |  | paired | rep3 | Hypha | Maple Sap 120 min (polar growth) | 69898855 | 69857442 | (16) |
| SRR5824382 |  |  | paired | rep2 | Hypha | Maple Sap 120 min (polar growth) | 85284128 | 85235578 | (16) |
| SRR5824381 |  |  | paired | rep1 | Hypha | Maple Sap 120 min (polar growth) | 70721144 | 70657696 | (16) |
| SRR5824380 |  |  | paired | rep3 | Hypha | Maple Sap 15 min (fresh conidia) | 76397653 | 76326953 | (16) |
| SRR5824379 |  |  | paired | rep2 | Hypha | Maple Sap 15 min (fresh conidia) | 73433768 | 73363537 | (16) |
| SRR5824378 |  |  | paired | rep1 | Hypha | Maple Sap 15 min (fresh conidia) | 73359082 | 73296616 | (16) |
| SRR5824377 |  |  | paired | rep3 | Hypha | Bird 360 min (first hyphal branching) | 72632181 | 72582024 | (16) |
| SRR5824376 |  |  | paired | rep2 | Hypha | Bird 360 min (first hyphal branching) | 69470163 | 69422800 | (16) |
| SRR5824375 |  |  | paired | rep1 | Hypha | Bird 360 min (first hyphal branching) | 73153840 | 73096840 | (16) |
| SRR5824374 |  |  | paired | rep3 | Hypha | Bird 240 min (doubling of long axis) | 65618705 | 65565395 | (16) |
| SRR5824373 |  |  | paired | rep2 | Hypha | Bird 240 min (doubling of long axis) | 90724243 | 90651363 | (16) |
| SRR5824372 |  |  | paired | rep1 | Hypha | Bird 240 min (doubling of long axis) | 92141560 | 92085896 | (16) |
| SRR5824371 |  |  | paired | rep3 | Hypha | Bird 120 min (polar growth) | 65964234 | 65904948 | (16) |
| SRR5824370 |  |  | paired | rep2 | Hypha | Bird 120 min (polar growth) | 42849577 | 42806132 | (16) |
| SRR5824369 |  |  | paired | rep1 | Hypha | Bird 120 min (polar growth) | 82805689 | 82734622 | (16) |
| SRR5824368 |  |  | paired | rep3 | conidia | Bird 15 min (fresh conidia) | 79454916 | 79383349 | (16) |
| SRR5824367 |  |  | paired | rep2 | conidia | Bird 15 min (fresh conidia) | 75822291 | 75753494 | (16) |
| SRR5824366 |  |  | paired | rep1 | conidia | Bird 15 min (fresh conidia) | 95070913 | 94986563 | (16) |
| SRR5760434 |  |  | paired | rep3 | conidia | 5 hr germination + 10mM Pi | 35362279 | 31096485 | (17) |
| SRR5760433 |  |  | paired | rep2 | conidia | 5 hr germination + 10mM Pi | 29943629 | 26267039 | (17) |
| SRR5760432 |  |  | paired | rep1 | conidia | 5 hr germination + 10mM Pi | 53552104 | 47661852 | (17) |
| SRR5760431 |  |  | paired | rep3 | conidia | 5 hr germination + 10uM Pi | 38524725 | 33680750 | (17) |
| SRR5760430 |  |  | paired | rep2 | conidia | 5 hr germination + 10uM Pi | 33139222 | 28758187 | (17) |
| SRR5760429 |  |  | paired | rep1 | conidia | 5 hr germination + 10uM Pi | 40352560 | 35941143 | (17) |
| SRR1025976 |  |  | single | rep1 | conidia | Constant light for 6 h + staurosporine 1 hr | 13881322 | 13478385 | (18) |
| SRR1025975 | SRR1025974 | SRR1025973 |  | rep1 | conidia | Constant light for 6 h + DMSO for 1 hr | 16045818 | 15414333 | (18) |

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