Table S3. Most common D+2/T+2 pairs by fungal receiver domain type

| Receiver Domain Type | Number in Database | D+2/T+2 Pair | Number | Percent |
|----------------------|--------------------|--------------|--------|---------|
| Skn7                 | 55                 | IN\(^a\)      | 21     | 38      |
|                      |                    | VN           | 19     | 35      |
|                      |                    | MN           | 7      | 13      |
|                      |                    | FN           | 3      | 5       |
|                      |                    | Sum          | 50     | 91      |
| Rim15                | 24                 | KY           | 17     | 71      |
| Ascomycota           |                    | RY           | 5      | 21      |
|                      |                    | Sum          | 22     | 92      |
| Rim15 non-           | 23                 | RY           | 8      | 35      |
| Ascomycota           |                    | HY           | 4      | 17      |
|                      |                    | QY           | 2      | 9       |
|                      |                    | MF           | 2      | 9       |
|                      |                    | Sum          | 16     | 70      |
| Srr1                 | 19                 | ER           | 13     | 68      |
|                      |                    | EK           | 4      | 21      |
|                      |                    | Sum          | 17     | 89      |
| Unclassified         | 44                 | VN           | 6      | 14      |
|                      |                    | DN           | 4      | 9       |
|                      |                    | QS           | 3      | 7       |
|                      |                    | SD           | 3      | 7       |
|                      |                    | DS           | 2      | 5       |
|                      |                    | QN           | 2      | 5       |
|                      |                    | SN           | 2      | 5       |
|                      |                    | SS           | 2      | 5       |
|                      |                    | Sum          | 24     | 55      |
| Ssk1                 | 48                 | QS           | 46     | 96      |
|                      |                    | Sum          | 46     | 96      |
| Group I              | 50                 | SL           | 22     | 44      |
|                      |                    | QL           | 5      | 10      |
|                      |                    | SM           | 4      | 8       |
|                      |                    | SV           | 4      | 8       |
|                      |                    | Sum          | 35     | 70      |
| Group II             | 11                 | QQ           | 4      | 36      |
|                      |                    | Sum          | 4      | 36      |
| Group   |   |   |   |
|---------|---|---|---|
|         |   |   |   |
| Group III | 57 | QH | 43 |
|          |   | SH | 14 |
|          |   | Sum | 57 |
| Group IV | 12 | SN | 2 |
|          |   | SY | 2 |
|          |   | NN | 2 |
|          |   | RD | 2 |
|          |   | Sum | 8 |
| Group V  | 41 | HN | 14 |
|          |   | QN | 13 |
|          |   | FN | 5 |
|          |   | Sum | 32 |
| Group VI | 22 | QF | 19 |
|          |   | QY | 2 |
|          |   | Sum | 21 |
| Group VII| 13 | WD | 13 |
|          |   | Sum | 13 |
| Group VIII| 35 | QS | 28 |
|          |   | QT | 2 |
|          |   | QQ | 2 |
|          |   | Sum | 32 |
| Group IX | 21 | QS | 17 |
|          |   | HS | 2 |
|          |   | IS | 2 |
|          |   | Sum | 21 |
| Group X  | 57 | HD | 26 |
|          |   | QS | 19 |
|          |   | QN | 4 |
|          |   | Sum | 49 |
| Group XI | 47 | EN | 38 |
|          |   | EY | 8 |
|          |   | Sum | 46 |
| Group XII| 15 | MK | 2 |
| Rec1     |   | MR | 2 |
|          |   | MH | 2 |
|          |   | LI | 2 |
|          |   | LV | 2 |
|          |   | Sum | 10 |
| Group     | 20 | EN | 8 | 40 |
|-----------|----|----|---|----|
| Rec2      |    | QN | 4 | 20 |
| AS        | 2  |    | 2 | 10 |
| Sum       | 14 |    | 10| 70 |
| Group XIII| 20 | QN | 16| 80 |
| Sum       | 16 |    | 80|    |
| Group XIV | 8  | SL | 2 | 25 |
| NL        | 2  |    | 25| 50 |
| Sum       | 4  |    | 50|    |
| Group XV  | 6  | YS | 4 | 67 |
| Sum       | 4  |    | 67|    |
| Group XVI | 6  | WC | 4 | 67 |
| Sum       | 4  |    | 67|    |
| Group XVII| 3  | QN | 2 | 67 |
| Sum       | 2  |    | 67|    |
| Group XVIII| 5 | SN | 2 | 40 |
| SS        | 2  |    | 40| 80 |
| Sum       | 4  |    | 80|    |
| Group XIX | 7  | IN | 2 | 29 |
| MN        | 2  |    | 29| 57 |
| Sum       | 4  |    | 57|    |

\(^{a}\text{Single letter amino acid code.}\)