

1 Text S**2**. Non-*P. infestans* sample

Table 1: Isolates of *Phytophthora* (*P. infestans* excluded) used in this report. Samples sequenced for this project are available at the sequence read archive (NCBI) as BioProject ID: PRJNA542680.

| Strain     | Taxon                | Year collected | Provenance         | Mating type | SRA sample   | Publication      |
|------------|----------------------|----------------|--------------------|-------------|--------------|------------------|
| P13803     | <i>P. andina</i>     | 2004           | Ecuador, Pichincha | A1          | SRS856497    | Martin 2016 [1]  |
| PaX        | <i>P. andina</i>     | NA             | NA                 | NA          | SRS856496    | Martin 2016 [1]  |
| Ipom_2.4   | <i>P. ipomoeae</i>   | 1999           | Mexico             | NA          | SAMN11635080 | This report      |
| Pic99167   | <i>P. ipomoeae</i>   | 1999           | Mexico             | NA          | SAMN11635081 | This report      |
| 00Ip05     | <i>P. ipomoeae</i>   | 2000           | Mexico             | NA          | SAMN11635082 | This report      |
| PI-07-097  | <i>P. ipomoeae</i>   | 2004           | Mexico, Michoacan  | NA          | SAMN11635083 | This report      |
| Ipom_1.2   | <i>P. ipomoeae</i>   | 1999           | Mexico             | NA          | SAMN11635084 | This report      |
| P7722      | <i>P. mirabilis</i>  | 1992           | USA, California    | A1          | ERS241588    | Yoshida 2013 [2] |
| CBS.678.85 | <i>P. mirabilis</i>  | NA             | Mexico             | NA          | SAMN11635075 | This report      |
| P3001      | <i>P. mirabilis</i>  | 1998           | Mexico             | NA          | SAMN11635076 | This report      |
| PIC99114b  | <i>P. mirabilis</i>  | 1998           | Mexico             | NA          | SAMN11635077 | This report      |
| 00M 410    | <i>P. mirabilis</i>  | 2000           | Mexico, D.F.       | NA          | SAMN11635078 | This report      |
| PI-07-100  | <i>P. mirabilis</i>  | 2003           | Mexico, Michoacan  | NA          | SAMN11635079 | This report      |
| INRA-310   | <i>P. parasitica</i> | NA             | NA                 | NA          | SRS348810    | The Broad        |
| J01A1      | <i>P. parasitica</i> | NA             | NA                 | NA          | NA           | The Broad        |
| P10297     | <i>P. parasitica</i> | NA             | USA, Florida       | A2          | SRS473780    | The Broad        |
| P1569      | <i>P. parasitica</i> | NA             | USA, California    | A1          | SRS473781    | The Broad        |
| P1976      | <i>P. parasitica</i> | 1976           | USA, California    | A2          | SRS473782    | The Broad        |
| Pc1E8      | <i>P. capsici</i>    | 1987           | Taiwan, Taipei     | NA          | SRS2114629   | NA               |
| Pc33e      | <i>P. capsici</i>    | 1995           | Taiwan, Tainan     | NA          | SRS2114628   | NA               |
| Pc337      | <i>P. capsici</i>    | 2016           | Taiwan, Yunlin     | NA          | SRS2115143   | NA               |
| Pc389      | <i>P. capsici</i>    | 2016           | Taiwan, Hualien    | NA          | SRS2115103   | NA               |

## References

- [1] MD Martin, FG Vieira, SYW Ho, N Wales, M Schubert, A Seguin-Orlando, JB Ristaino, and MTP Gilbert. Genomic characterization of a South American *Phytophthora* hybrid mandates reassessment of the geographic origins of *Phytophthora infestans*. *Molecular Biology and Evolution*, 33(2):478–491, 2015.
- [2] K Yoshida, VJ Schuenemann, LM Cano, M Pais, B Mishra, R Sharma, C Lanz, FN Martin, S Kamoun, J Krause, et al. The rise and fall of the *Phytophthora infestans* lineage that triggered the Irish potato famine. *Elife*, 2:e00731, 2013.