

Table S1. List of the oligonucleotides used in this study.

Name	Primer sequence (5'-3')	Gene annotation or Target	Gene ID	Reference
<i>VvCOX_F</i> <i>VvCOX_R</i>	CGTCGCATTCCAGATTATCCA CAACTACGGATATATAA- GAGCCAAAAGT	Cytochrome oxidase	VIT not assigned	Nerva et al., 2022 ¹
<i>VvUBI_F</i> <i>VvUBI_R</i>	TCTGAGGTTCGTGGTGGTA AGGCGTGCATAACATTTGCG	Ubiquitin	VIT_16s0098g00580	Chitarra et al., 2017 ²
<i>VvHNT1_F</i> <i>VvHNT1_R</i>	AACCACAGACGCCACAAGA CCACCCAGAAGAACCCGCAA	Nitrate transporter 3.1	VIT_17s0000g09470	This study
<i>VvNRT1.3_F</i> <i>VvNRT1.3_R</i>	TCAGCAGCAAAATCAGCAAC TGCTAAGAAACCGGCTAGGA	Nitrate transporter 1.3	VIT_12s0059g01240	Zanin et al., 2022 ³
<i>VvNRT2.4A_F</i> <i>VvNRT2.4A_R</i>	CCTCCACCTTCAAAGGA CATGGGATGGTGTAGAGTTGG	Nitrate transporter 2.4A	VIT_06s0061g00320	Zanin et al., 2022 ³

¹Nerva, L., Guaschino, M., Pagliarini, C., De Rosso, M., Lovisolo, C., & Chitarra, W. (2022). Spray-induced gene silencing targeting a glutathione S-transferase gene improves resilience to drought in grapevine. *Plant, Cell & Environment*, 45(2), 347-361; ²Balestrini, R., Salvioli, A., Dal Molin, A., Novero, M., Gabelli, G., Paparelli, E., ... & Bonfante, P. (2017). Impact of an arbuscular mycorrhizal fungus versus a mixed microbial inoculum on the transcriptome reprogramming of grapevine roots. *Mycorrhiza*, 27(5), 417-430; ³Zanin, L.; Nerva, L.; Alessandrini, M.; Tomasi, D.; Pinton, R.; Lucchetta, M.; Chitarra, W.; Gaiotti, F. Effects of the Fractionation of the Nitrogen Fertilization on Root Nitrate Uptake and Vine Agronomic Performance in Pinot Gris Grapevines in a Temperate Climate. *J. Soil Sci. Plant Nutr.* **2022**, 22, 4996–5008.

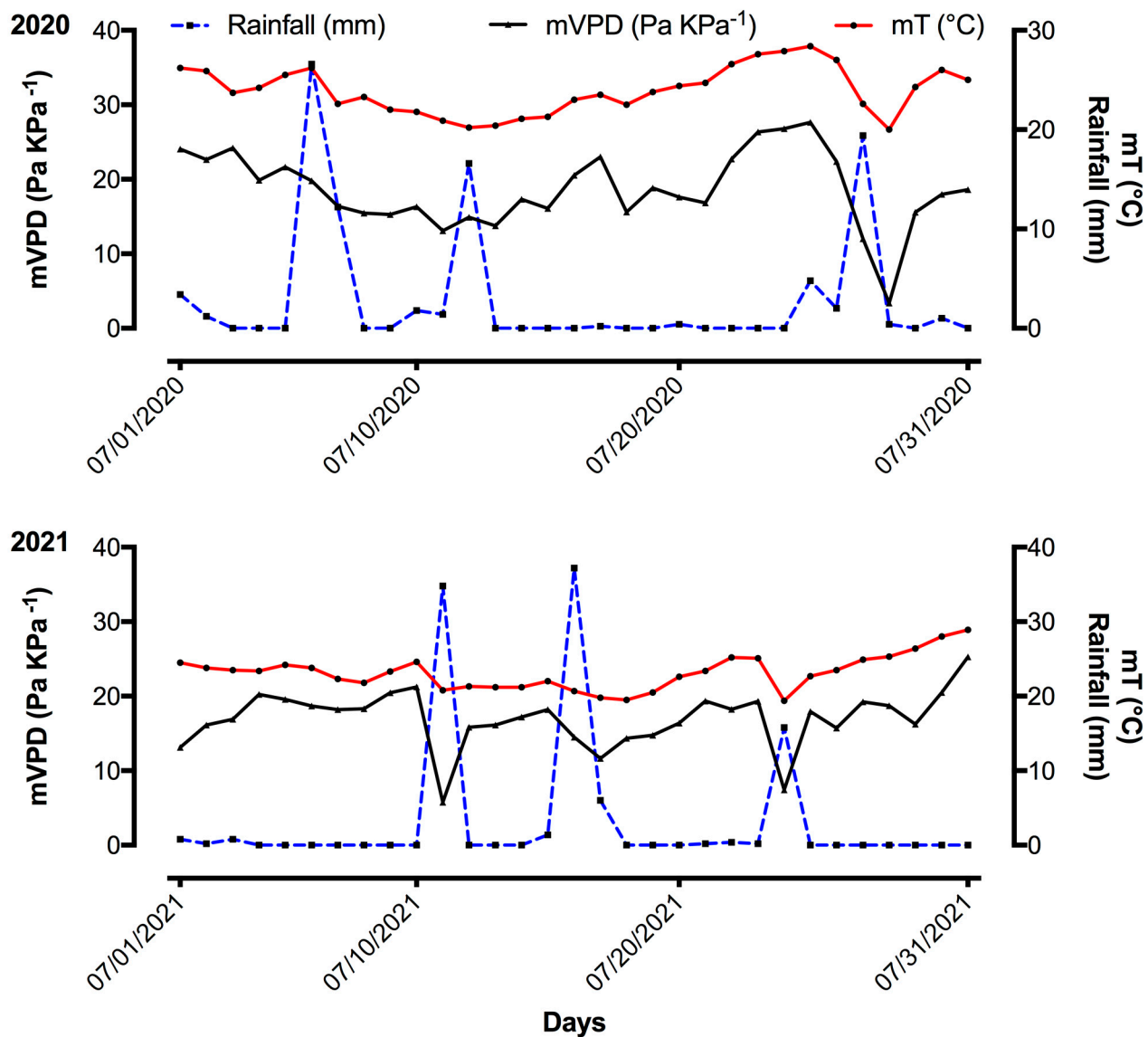


Figure S1. Climatic data recorded during the experimental trial (July 2020 and 2021). Average daily rainfall (blue dashed lines), average daily air temperature (mT, red lines) and average Vapor Pressure Deficit (mVPD, black lines) retrieved from the weather station during July 2020 and 2021.