	CONTROL	*MYC*
C (%)	40.29 ± 0.81	**39.42 ± 0.56**
N (%)	2.23 ± 0.17	**1.29 ± 0.54**
K (mg/g DW)	45.86 ± 1.78	47.97 ± 4.57
P (mg/g DW)	3.20 ± 1.10	2.63 ± 0.57
S (mg/g DW)	1.70 ± 0.68	1.66 ± 0.34

Supplemental Table 1. Mineral content (C, N, K, P, S) of fully ripe CONTROL and MYC tomato fruit. Values are means ± SD (n=5). DW, dry weight. Data highlighted in bold are significantly different (Non parametric Kruskal-Wallis test, $p < 0.05$).

Phenology and fruit yield of high fertilized control plants and low fertilized mycorrhizal plants

	CONTROL	*MYC*
Vegetative period (DAT)	53.27 ± 3.82	52.27 ± 3.45
Flowering-First fruit (days)	15.50 ± 5.88	17.33 **±** 4.29
Fruiting period (days)	53.67 ± 14.47	**104.31 ± 21.48**
Average fruit number/plant	2.00 ± 1.41	5.85 ± 2.34
Total fruit production (n°)	20	88
Average fruit weight (g)	23.35 ± 1.74	26.31 ± 1.16
Total fruit yield (g)	467	2315.28

Supplemental Table 2. Phenology and fruit yield of CONT and MYC plants: length of the vegetative period (expressed in days after transplanting, DAT), number of days from flowering to the first fruit, fruiting period length, average fruit number per plant, total fruit production, average fruit weight and total fruit yield. Data are expressed as mean ± standard deviation, n=10. Statistically significant data are highlighted in bold according to the non-parametric Kruskal-Wallis test ($p < 0.05$).

	CONTROL	*MYC*
Radical scavenging activity (µmol trolox/100g fm)	100.89 ± 3.67	127.49 ± 47.29
Reducing activity (µmol trolox/100g fm)	106.68 ± 15.43	**161.11 ± 33.84**
Total phenols (mg GAE/100g fm)	30.35 ± 5.75	41.50 ± 14.72
β-Carotene (mg/100g fm)	4.25 ± 2.85	1.88 ± 0.41
Lycopene (mg/100g fm)	6.51 ± 2.69	4.55 ± 0.95

Supplemental Table 4. Biochemical and nutraceutical parameters measured in fully ripe CONTROL and MYC tomato fruit. Data highlighted in bold are significantly different (one-way ANOVA with Tukey's posthoc test, $p < 0.05$).

Supplemental table 5. Genes and corresponding primers used in real-time RT-PCR

Gene	Primer sequence
Ubiquitin	UbiF:ACCAAGCCAAAGAAGATCAAGC UbiR:GTGAGCCCACACTTACCACAGT
Cinnamoyl CoA reductase-like protein	PaaF:TGGTCAGCCTCGGACACCTGA PaaR:CACGCAGCATCCTCAGCCAATG
Allantoinase	AlnF:GGCAACCTTTGTGGGCGGAAA AlnR:TGCCATGTGGTCGTCTCCAACC
Late elongated hypocotyl and circadian clock associated-1-like	LehF:GGCGGGAAGCAGGTAGATCG LehR:CCGATTCGCAGCCTCTCCAG
Myc2 transcription factor	BhlhF:CAGGGCGTCCGTTTGTTGTG BhlhR:TGGCACATCCTCCTCCTCCA
Inorganic phosphate transporter	IptF:TGGACCCAACGCCACCACAT IptR:TGCACCAACCATTGCCCCTACC
Putative acid phosphatase	PtaseF:GCGATTTCTGCCCCAGTTTG PtaseR:CACTCGTGGACCCCTGCTTT
Glutamine synthetase	GsF:CGCCGCCCAGCTTCAAACAT GsR:CCTCAAGGGTTGGCTCCCACA
Acid beta-fructofuranosidase	AivF:AGGCATTTTGGGACCATTTG AivR:GTCTCTGCACGACCATCAGC
Nodulin family protein	NodulinF:CCTTCCCCTCGGCTCATTTC NodulinR:GTGTTGCCACCACTCGCTGT
Deoxyxylulose 5-phosphate synthase	DXSrtf:GCTTCCGGCTGGAAACAAAGG DXSrtr:CCGCGGGATTCTAGCACAATAG
Hydroxymethylbutenyl diphosphate reductase	HDRrtf:CGACAAACGCAATTCGCTCAC HDRrtr:CGGAGCATCTGATGACGGAG
Phytoene synthase	PSYrtf:TGAGGCAGGCAGCCTTGGTG PSYrtr:GCCCAAATTCCCCGGAATAGG
Lipoxygenase TomloxC	Loxrtf:TTGCCTATGGTGCTGAATGG Loxrtr: TGGATCTTCCTCTGCCAATC
Carotenoid cleavage dioxygenase	CCDrtf:TGACCCCACAAAGAAGGCTCG CCDrtr:CCCAAGCATTGGCGTTGTGG