

**Supplementary Table S1.** Statistical analysis of the results (two-way ANOVA) to test the influence of the treatment (drought – D or rewatering – R) and two genotypes (WT and *flacca*) and their interactions on the amount of ABA, stomatal conductance and relative water potential in tomato leaves.

<b>Trait</b>	Source of variation	df	F	<i>p</i>	<b>Trait</b>	Source of variation	df	F	<i>p</i>
<b>ABA (D)</b>	Genotype	1	21.31	0.000110	<b>ABA (R)</b>	Genotype	1	41.65	0.000003
	Treatment	1	20.37	0.000143		Treatment	1	10.13	0.004671
	Genotype x Treatment	1	2.53	0.125117		Genotype x Treatment	1	2.54	0.126837
<b>g<sub>s</sub> (D)</b>	Genotype	1	238.13	0.000000	<b>g<sub>s</sub> (R)</b>	Genotype	1	5.88	0.027575
	Treatment	1	72.62	0.000000		Treatment	1	16.61	0.000882
	Genotype x Treatment	1	13.99	0.000638		Genotype x Treatment	1	11.18	0.004127
<b>ψ(D)</b>	Genotype	1	46.30	0.000004	<b>ψ(R)</b>	Genotype	1	7.30	0.019243
	Treatment	1	35.80	0.000019		Treatment	1	0.53	0.481897
	Genotype x Treatment	1	34.24	0.000025		Genotype x Treatment	1	4.55	0.054340

**Supplementary Table S2.** Statistical analysis of the results (two-way ANOVA) to test the influence of the treatment (drought – D or re-watering – R) and two genotypes (WT and *flacca*) and their interactions on the fresh and dry weight and leaf area in tomato leaves.

Trait	Source of variation	df	F	<i>p</i>	Trait	Source of variation	df	F	<i>p</i>
<b>Fresh weight (D)</b>	Genotype	1	91.05	0.000001	<b>Fresh weight (R)</b>	Genotype	1	610.92	0.000000
	Treatment	1	0.59	0.458391		Treatment	1	9.76	0.008777
	Genotype x Treatment	1	5.08	0.043763		Genotype x Treatment	1	0.29	0.600238
<b>Dry weight (D)</b>	Genotype	1	36.72	0.000057	<b>Dry weight (R)</b>	Genotype	1	38.63	0.000045
	Treatment	1	7.10	0.020645		Treatment	1	0.69	0.422220
	Genotype x Treatment	1	0.82	0.382027		Genotype x Treatment	1	0.02	0.882670
<b>Leaf area (D)</b>	Genotype	1	91.05	0.000001	<b>Leaf area (R)</b>	Genotype	1	140.67	0.000000
	Treatment	1	0.59	0.458391		Treatment	1	0.91	0.358278
	Genotype x Treatment	1	5.08	0.043763		Genotype x Treatment	1	0.29	0.600880

**Supplementary Table S3.** Content of soluble sugars in the leaves of WT and *flacca* tomato genotypes subjected to six-day water deficit (D) period followed by six-day period of re-watering (R). Respective controls corresponding to water-deficit condition (C<sub>D</sub>) and re-watering (C<sub>R</sub>) are presented. Values are presented as means ± SE (n = 4). Different letters denote significant differences between means according to Tukey HSD post hoc test  $p \leq 0.05$ . Small letters represent the differences in means of drought treatment, while caps letters represent re-watering treatment.

	WT		<i>Flacca</i>		WT		<i>flacca</i>	
	C <sub>D</sub>	D	C <sub>D</sub>	D	C <sub>R</sub>	R	C <sub>R</sub>	R
<i>Hexose (μmol g<sup>-1</sup> FW)</i>								
Glucose	12.38 ± 0.95 <sup>a</sup>	12.60 ± 0.38 <sup>a</sup>	13.16 ± 0.73 <sup>a</sup>	19.94 ± 2.19 <sup>b</sup>	12.61 ± 0.83 <sup>AB</sup>	11.04 ± 0.30 <sup>B</sup>	17.76 ± 1.65 <sup>C</sup>	15.79 ± 0.46 <sup>BC</sup>
Fructose	8.65 ± 0.50 <sup>a</sup>	7.78 ± 0.93 <sup>a</sup>	7.83 ± 0.35 <sup>a</sup>	9.01 ± 0.91 <sup>a</sup>	8.35 ± 0.52 <sup>A</sup>	8.47 ± 0.19 <sup>A</sup>	11.70 ± 0.91 <sup>AB</sup>	15.27 ± 1.46 <sup>B</sup>
Galactose	0.25 ± 0.02 <sup>a</sup>	0.48 ± 0.09 <sup>b</sup>	1.38 ± 0.06 <sup>c</sup>	1.24 ± 0.18 <sup>c</sup>	0.26 ± 0.03 <sup>A</sup>	0.53 ± 0.11 <sup>AB</sup>	0.96 ± 0.08 <sup>B</sup>	1.61 ± 0.17 <sup>C</sup>
<i>Pentose (μmol g<sup>-1</sup> FW)</i>								
Arabinose	0.15 ± 0.01 <sup>a</sup>	0.39 ± 0.06 <sup>b</sup>	0.79 ± 0.17 <sup>c</sup>	0.73 ± 0.07 <sup>c</sup>	0.08 ± 0.01 <sup>A</sup>	0.34 ± 0.08 <sup>B</sup>	0.78 ± 0.03 <sup>C</sup>	0.95 ± 0.09 <sup>C</sup>
Rhamnose	0.07 ± 0.01 <sup>b</sup>	0.08 ± 0.01 <sup>a</sup>	0.06 ± 0.01 <sup>b</sup>	0.08 ± 0.01 <sup>b</sup>	0.10 ± 0.01 <sup>B</sup>	0.07 ± 0.01 <sup>A</sup>	0.13 ± 0.01 <sup>C</sup>	0.13 ± 0.01 <sup>C</sup>
Xylose	0.49 ± 0.01 <sup>a</sup>	0.53 ± 0.04 <sup>a</sup>	0.69 ± 0.02 <sup>b</sup>	0.39 ± 0.07 <sup>a</sup>	0.50 ± 0.02 <sup>A</sup>	1.29 ± 0.08 <sup>C</sup>	0.69 ± 0.02 <sup>AB</sup>	0.81 ± 0.08 <sup>B</sup>
<i>Disaccharides (μmol g<sup>-1</sup> FW)</i>								
Sucrose	0.69 ± 0.10 <sup>bc</sup>	0.41 ± 0.04 <sup>a</sup>	0.63 ± 0.04 <sup>b</sup>	0.78 ± 0.03 <sup>c</sup>	0.39 ± 0.06 <sup>AB</sup>	0.73 ± 0.06 <sup>C</sup>	0.32 ± 0.01 <sup>A</sup>	0.50 ± 0.04 <sup>B</sup>
Trehalose	0.08 ± 0.01 <sup>a</sup>	0.26 ± 0.04 <sup>b</sup>	0.02 ± 0.01 <sup>a</sup>	0.03 ± 0.01 <sup>a</sup>	0.13 ± 0.01 <sup>B</sup>	0.12 ± 0.02 <sup>B</sup>	0.03 ± 0.01 <sup>A</sup>	0.03 ± 0.01 <sup>A</sup>
Melibiose	0.24 ± 0.01 <sup>b</sup>	0.24 ± 0.02 <sup>b</sup>	0.11 ± 0.01 <sup>a</sup>	0.11 ± 0.01 <sup>a</sup>	0.23 ± 0.18 <sup>B</sup>	0.49 ± 0.01 <sup>C</sup>	0.14 ± 0.01 <sup>A</sup>	0.15 ± 0.01 <sup>A</sup>
Maltose	0.19 ± 0.02 <sup>bc</sup>	0.23 ± 0.02 <sup>c</sup>	0.13 ± 0.01 <sup>a</sup>	0.14 ± 0.01 <sup>ab</sup>	0.20 ± 0.02 <sup>BC</sup>	0.26 ± 0.04 <sup>C</sup>	0.11 ± 0.01 <sup>A</sup>	0.14 ± 0.01 <sup>AB</sup>
<i>Oligosaccharides (nmol g<sup>-1</sup> FW)</i>								
Maltotriose	16.24 ± 2.22 <sup>a</sup>	21.46 ± 0.66 <sup>ab</sup>	21.81 ± 1.14 <sup>ab</sup>	24.48 ± 0.18 <sup>b</sup>	21.57 ± 1.06 <sup>AB</sup>	19.23 ± 0.76 <sup>A</sup>	23.23 ± 0.48 <sup>B</sup>	24.72 ± 1.16 <sup>B</sup>
Raffinose	43.28 ± 1.83 <sup>b</sup>	44.34 ± 1.91 <sup>b</sup>	31.03 ± 0.26 <sup>a</sup>	31.04 ± 0.39 <sup>a</sup>	47.38 ± 2.97 <sup>BC</sup>	54.91 ± 0.49 <sup>C</sup>	38.81 ± 0.54 <sup>A</sup>	39.69 ± 0.61 <sup>AB</sup>
Panose	13.44 ± 0.15 <sup>a</sup>	17.45 ± 3.44 <sup>a</sup>	12.44 ± 0.49 <sup>a</sup>	15.87 ± 1.44 <sup>a</sup>	18.32 ± 1.82 <sup>A</sup>	22.15 ± 0.56 <sup>A</sup>	40.87 ± 0.39 <sup>B</sup>	39.71 ± 1.27 <sup>B</sup>
Stachyose	12.33 ± 1.26 <sup>ab</sup>	12.98 ± 1.41 <sup>b</sup>	9.75 ± 0.43 <sup>ab</sup>	9.15 ± 0.27 <sup>a</sup>	16.29 ± 1.78 <sup>AB</sup>	19.27 ± 0.43 <sup>B</sup>	14.27 ± 0.59 <sup>A</sup>	14.93 ± 0.56 <sup>AB</sup>
<i>Sugar alcohols (μmol g<sup>-1</sup> FW)</i>								
Sorbitol	1.03 ± 0.08 <sup>a</sup>	1.65 ± 0.13 <sup>b</sup>	4.16 ± 0.14 <sup>c</sup>	5.58 ± 0.71 <sup>c</sup>	1.69 ± 0.17 <sup>A</sup>	1.64 ± 0.20 <sup>A</sup>	5.87 ± 0.13 <sup>B</sup>	5.83 ± 0.58 <sup>B</sup>
<b>Total SS (μmol g<sup>-1</sup> FW)</b>	<b>24.31 ± 0.75<sup>a</sup></b>	<b>24.74 ± 1.04<sup>a</sup></b>	<b>29.04 ± 1.14<sup>a</sup></b>	<b>38.11 ± 3.97<sup>b</sup></b>	<b>24.64 ± 0.89<sup>A</sup></b>	<b>25.10 ± 0.64<sup>A</sup></b>	<b>38.61 ± 0.85<sup>B</sup></b>	<b>41.33 ± 1.72<sup>B</sup></b>



<b>Raf (D)</b>	Genotype	1	46.39	0.000019	<b>Raf (R)</b>	Genotype	1	37.93	0.000049
	Treatment	1	4.93	0.046462		Treatment	1	3.86	0.073062
	Genotype x Treatment	1	2.87	0.116214		Genotype x Treatment	1	2.16	0.167528
<b>Pan (D)</b>	Genotype	1	0.66	0.431195	<b>Pan (R)</b>	Genotype	1	297.36	0.000000
	Treatment	1	2.79	0.120665		Treatment	1	1.32	0.273232
	Genotype x Treatment	1	0.11	0.747021		Genotype x Treatment	1	4.62	0.052707
<b>Stach (D)</b>	Genotype	1	15.51	0.001969	<b>Stach (R)</b>	Genotype	1	7.59	0.017412
	Treatment	1	0.03	0.866993		Treatment	1	2.37	0.149259
	Genotype x Treatment	1	0.15	0.702514		Genotype x Treatment	1	0.89	0.364404
<b>Sor (D)</b>	Genotype	1	192.00	0.000000	<b>Sor (R)</b>	Genotype	1	166.03	0.000000
	Treatment	1	15.54	0.001954		Treatment	1	0.08	0.782405
	Genotype x Treatment	1	1.22	0.291613		Genotype x Treatment	1	0.01	0.935445
<b>Total SS (D)</b>	Genotype	1	26.43	0.000245	<b>Total SS (R)</b>	Genotype	1	186.31	0.000000
	Treatment	1	7.05	0.021006		Treatment	1	2.04	0.179204
	Genotype x Treatment	1	5.88	0.032089		Genotype x Treatment	1	1.07	0.320500

---

**Supplementary Table S5.** Content of free amino acids (AAs) ( $\mu\text{mol g}^{-1}$  FW) in the leaves of WT and *flacca* tomato genotypes subjected to six-day water deficit (D) period followed by six-day period of re-watering (R). Respective controls corresponding to water-deficit condition ( $C_D$ ) and re-watering ( $C_R$ ) are presented. Values are presented as means  $\pm$  SE ( $n = 4$ ). Different letters denote significant differences between means according to Tukey HSD post hoc test  $p \leq 0.05$ . Small letters represent the differences in means of drought treatment, while caps letters represent re-watering treatment.

	WT		<i>flacca</i>		WT		<i>flacca</i>	
	$C_D$	D	$C_D$	D	$C_R$	R	$C_R$	R
Aspartate	1.48 $\pm$ 0.01 <sup>a</sup>	2.23 $\pm$ 0.09 <sup>c</sup>	2.75 $\pm$ 0.18 <sup>b</sup>	1.55 $\pm$ 0.06 <sup>a</sup>	1.32 $\pm$ 0.10 <sup>A</sup>	1.41 $\pm$ 0.20 <sup>C</sup>	3.58 $\pm$ 0.02 <sup>A</sup>	2.04 $\pm$ 0.07 <sup>B</sup>
Glutamate	1.44 $\pm$ 0.01 <sup>a</sup>	2.57 $\pm$ 0.15 <sup>b</sup>	2.61 $\pm$ 0.22 <sup>b</sup>	3.60 $\pm$ 0.34 <sup>c</sup>	1.37 $\pm$ 0.08 <sup>A</sup>	1.64 $\pm$ 0.12 <sup>C</sup>	4.43 $\pm$ 0.50 <sup>AB</sup>	2.20 $\pm$ 0.04 <sup>B</sup>
Glutamine	0.56 $\pm$ 0.01 <sup>a</sup>	0.86 $\pm$ 0.06 <sup>b</sup>	1.33 $\pm$ 0.09 <sup>a</sup>	2.37 $\pm$ 0.20 <sup>c</sup>	0.73 $\pm$ 0.01 <sup>A</sup>	0.83 $\pm$ 0.12 <sup>B</sup>	2.15 $\pm$ 0.24 <sup>A</sup>	1.01 $\pm$ 0.02 <sup>A</sup>
Serine	0.32 $\pm$ 0.01 <sup>a</sup>	0.56 $\pm$ 0.05 <sup>b</sup>	0.56 $\pm$ 0.05 <sup>b</sup>	0.77 $\pm$ 0.09 <sup>c</sup>	0.34 $\pm$ 0.03 <sup>A</sup>	0.27 $\pm$ 0.02 <sup>C</sup>	0.71 $\pm$ 0.05 <sup>A</sup>	0.53 $\pm$ 0.04 <sup>B</sup>
Alanine	0.32 $\pm$ 0.03 <sup>a</sup>	0.43 $\pm$ 0.01 <sup>ab</sup>	0.55 $\pm$ 0.08 <sup>bc</sup>	0.67 $\pm$ 0.11 <sup>c</sup>	0.62 $\pm$ 0.04 <sup>B</sup>	0.34 $\pm$ 0.01 <sup>A</sup>	0.68 $\pm$ 0.05 <sup>B</sup>	0.39 $\pm$ 0.01 <sup>A</sup>
Proline	0.27 $\pm$ 0.03 <sup>a</sup>	3.70 $\pm$ 0.81 <sup>a</sup>	0.35 $\pm$ 0.02 <sup>c</sup>	3.12 $\pm$ 0.24 <sup>b</sup>	0.22 $\pm$ 0.03 <sup>A</sup>	0.26 $\pm$ 0.04 <sup>A</sup>	0.32 $\pm$ 0.04 <sup>A</sup>	1.03 $\pm$ 0.15 <sup>B</sup>
Threonine	0.26 $\pm$ 0.03 <sup>a</sup>	0.36 $\pm$ 0.03 <sup>ab</sup>	0.32 $\pm$ 0.04 <sup>a</sup>	0.48 $\pm$ 0.07 <sup>b</sup>	0.25 $\pm$ 0.01 <sup>A</sup>	0.26 $\pm$ 0.04 <sup>A</sup>	0.51 $\pm$ 0.05 <sup>B</sup>	0.27 $\pm$ 0.01 <sup>A</sup>
Arginine	0.21 $\pm$ 0.02 <sup>a</sup>	0.20 $\pm$ 0.01 <sup>a</sup>	0.32 $\pm$ 0.03 <sup>ab</sup>	0.28 $\pm$ 0.05 <sup>b</sup>	0.31 $\pm$ 0.02 <sup>B</sup>	0.15 $\pm$ 0.01 <sup>A</sup>	0.25 $\pm$ 0.04 <sup>B</sup>	0.30 $\pm$ 0.03 <sup>B</sup>
Glycine	0.16 $\pm$ 0.02 <sup>b</sup>	0.13 $\pm$ 0.02 <sup>b</sup>	0.18 $\pm$ 0.02 <sup>ab</sup>	0.10 $\pm$ 0.01 <sup>a</sup>	0.27 $\pm$ 0.01 <sup>C</sup>	0.18 $\pm$ 0.01 <sup>B</sup>	0.23 $\pm$ 0.01 <sup>A</sup>	0.18 $\pm$ 0.01 <sup>A</sup>
Lysine	0.13 $\pm$ 0.02 <sup>a</sup>	0.20 $\pm$ 0.02 <sup>a</sup>	0.31 $\pm$ 0.03 <sup>b</sup>	0.39 $\pm$ 0.02 <sup>c</sup>	0.22 $\pm$ 0.09 <sup>A</sup>	0.19 $\pm$ 0.06 <sup>A</sup>	0.42 $\pm$ 0.14 <sup>B</sup>	2.88 $\pm$ 0.87 <sup>C</sup>
Leucine	0.12 $\pm$ 0.01 <sup>ab</sup>	0.15 $\pm$ 0.06 <sup>bc</sup>	0.19 $\pm$ 0.03 <sup>c</sup>	0.10 $\pm$ 0.01 <sup>a</sup>	0.22 $\pm$ 0.04 <sup>A</sup>	0.16 $\pm$ 0.06 <sup>A</sup>	0.25 $\pm$ 0.01 <sup>A</sup>	0.26 $\pm$ 0.07 <sup>A</sup>
Tyrosine	0.12 $\pm$ 0.01 <sup>a</sup>	0.21 $\pm$ 0.06 <sup>b</sup>	0.29 $\pm$ 0.01 <sup>b</sup>	0.56 $\pm$ 0.02 <sup>c</sup>	0.23 $\pm$ 0.02 <sup>A</sup>	0.24 $\pm$ 0.02 <sup>A</sup>	0.55 $\pm$ 0.17 <sup>B</sup>	0.16 $\pm$ 0.01 <sup>A</sup>
Phenylalanine	0.09 $\pm$ 0.01 <sup>a</sup>	0.12 $\pm$ 0.01 <sup>a</sup>	0.22 $\pm$ 0.01 <sup>c</sup>	0.15 $\pm$ 0.01 <sup>b</sup>	0.12 $\pm$ 0.01 <sup>A</sup>	0.10 $\pm$ 0.01 <sup>A</sup>	0.15 $\pm$ 0.02 <sup>B</sup>	0.17 $\pm$ 0.01 <sup>B</sup>
Asparagine	0.07 $\pm$ 0.01 <sup>a</sup>	0.12 $\pm$ 0.01 <sup>b</sup>	0.16 $\pm$ 0.01 <sup>b</sup>	0.33 $\pm$ 0.03 <sup>c</sup>	0.10 $\pm$ 0.01 <sup>A</sup>	0.12 $\pm$ 0.01 <sup>B</sup>	0.37 $\pm$ 0.04 <sup>A</sup>	0.14 $\pm$ 0.01 <sup>A</sup>
Valine	0.05 $\pm$ 0.01 <sup>a</sup>	0.09 $\pm$ 0.01 <sup>b</sup>	0.10 $\pm$ 0.01 <sup>b</sup>	0.17 $\pm$ 0.02 <sup>c</sup>	0.09 $\pm$ 0.01 <sup>A</sup>	0.06 $\pm$ 0.01 <sup>A</sup>	0.14 $\pm$ 0.02 <sup>A</sup>	0.08 $\pm$ 0.01 <sup>B</sup>
Isoleucine	0.05 $\pm$ 0.01 <sup>b</sup>	0.02 $\pm$ 0.01 <sup>a</sup>	0.05 $\pm$ 0.01 <sup>b</sup>	0.10 $\pm$ 0.01 <sup>c</sup>	0.10 $\pm$ 0.01 <sup>A</sup>	0.08 $\pm$ 0.02 <sup>A</sup>	0.06 $\pm$ 0.01 <sup>A</sup>	0.08 $\pm$ 0.01 <sup>A</sup>
Ornithine	0.02 $\pm$ 0.01 <sup>a</sup>	0.03 $\pm$ 0.01 <sup>b</sup>	0.03 $\pm$ 0.01 <sup>b</sup>	0.04 $\pm$ 0.01 <sup>c</sup>	0.02 $\pm$ 0.01 <sup>A</sup>	0.02 $\pm$ 0.01 <sup>A</sup>	0.03 $\pm$ 0.01 <sup>A</sup>	0.03 $\pm$ 0.01 <sup>A</sup>
<b>Total AA</b>	5.64 $\pm$ 0.11 <sup>a</sup>	11.98 $\pm$ 0.68 <sup>b</sup>	10.32 $\pm$ 0.71 <sup>b</sup>	14.76 $\pm$ 0.65 <sup>c</sup>	6.45 $\pm$ 0.17 <sup>A</sup>	6.31 $\pm$ 0.38 <sup>A</sup>	14.83 $\pm$ 1.21 <sup>C</sup>	11.75 $\pm$ 0.75 <sup>B</sup>

**Supplementary Table S6.** Statistical analysis of the results (two-way ANOVA) to test the influence of the treatment (drought – D or re-watering – R) and two genotypes (WT and *flacca*) and their interactions on the free amino acids content. Abbreviations: Aspartate – Asp, Glutamate – Glu, Glutamine – Gln, Serine – Ser, Alanine – Ala, Proline – Pro, Treonine – Tre, Arginine – Arg, Glycine – Gly, Lysine – Lys, Leucine – Leu, Tyrosine – Tyr, Phenilalanine – Phe, Asparagine – Asp, Valine – Val, Isoleucine – Ile, Ornithine – Orn.

Trait	Source of variation	df	F	<i>p</i>	Trait	Source of variation	df	F	<i>p</i>
<b>Asp (D)</b>	Genotype	1	10.63	0.006818	<b>Asp (R)</b>	Genotype	1	304.51	0.000000
	Treatment	1	6.15	0.029009		Treatment	1	76.49	0.000001
	Genotype x Treatment	1	115.92	0.000000		Genotype x Treatment	1	96.18	0.000000
<b>Glu (D)</b>	Genotype	1	50.71	0.000012	<b>Glu (R)</b>	Genotype	1	97.78	0.000000
	Treatment	1	46.58	0.000018		Treatment	1	28.75	0.000170
	Genotype x Treatment	1	0.22	0.646210		Genotype x Treatment	1	46.85	0.000018
<b>Gln (D)</b>	Genotype	1	198.30	0.000000	<b>Gln (R)</b>	Genotype	1	69.92	0.000002
	Treatment	1	67.37	0.000003		Treatment	1	29.52	0.000152
	Genotype x Treatment	1	20.48	0.000695		Genotype x Treatment	1	42.42	0.000029
<b>Ser(D)</b>	Genotype	1	29.07	0.000162	<b>Ser (R)</b>	Genotype	1	151.51	0.000000
	Treatment	1	30.05	0.000140		Treatment	1	25.64	0.000278
	Genotype x Treatment	1	0.16	0.694734		Genotype x Treatment	1	4.55	0.054161
<b>Ala (D)</b>	Genotype	1	22.38	0.000488	<b>Ala (R)</b>	Genotype	1	5.57	0.036084
	Treatment	1	5.48	0.037267		Treatment	1	141.91	0.000000
	Genotype x Treatment	1	0.00	0.964919		Genotype x Treatment	1	0.00	0.970112
<b>Pro (D)</b>	Genotype	1	7.39	0.018665	<b>Pro (R)</b>	Genotype	1	61.14	0.000005
	Treatment	1	1803.36	0.000000		Treatment	1	44.81	0.000022
	Genotype x Treatment	1	14.67	0.002392		Genotype x Treatment	1	36.85	0.000056
<b>Tre(D)</b>	Genotype	1	6.18	0.028614	<b>Tre (R)</b>	Genotype	1	43.77	0.000025
	Treatment	1	14.79	0.002329		Treatment	1	29.42	0.000154
	Genotype x Treatment	1	0.73	0.409787		Genotype x Treatment	1	33.44	0.000087
<b>Arg (D)</b>	Genotype	1	16.95	0.001427	<b>Arg (R)</b>	Genotype	1	5.47	0.037413
	Treatment	1	1.62	0.227618		Treatment	1	6.44	0.026071
	Genotype x Treatment	1	0.36	0.560661		Genotype x Treatment	1	24.15	0.000357
<b>Gly (D)</b>	Genotype	1	0.04	0.842515	<b>Gly (R)</b>	Genotype	1	11.53	0.005316
	Treatment	1	18.49	0.001032		Treatment	1	175.49	0.000000
	Genotype x Treatment	1	4.63	0.052375		Genotype x Treatment	1	16.39	0.001613
<b>Lys (D)</b>	Genotype	1	105.22	0.000000	<b>Lys (R)</b>	Genotype	1	11.37	0.005547
	Treatment	1	18.19	0.001098		Treatment	1	1.9724	0.185546
	Genotype x Treatment	1	0.13	0.727969		Genotype x Treatment	1	2.1866	0.164981

<b>Leu (D)</b>	Genotype	1	0.75	0.403964	<b>Leu (R)</b>	Genotype	1	0.75	0.403964
	Treatment	1	4.75	0.049925		Treatment	1	4.75	0.049925
	Genotype x Treatment	1	34.90	0.000072		Genotype x Treatment	1	34.90	0.000072
<b>Tyr (D)</b>	Genotype	1	155.71	0.000000	<b>Tyr (R)</b>	Genotype	1	3.57	0.083094
	Treatment	1	73.46	0.000002		Treatment	1	9.49	0.009518
	Genotype x Treatment	1	17.89	0.001168		Genotype x Treatment	1	10.83	0.006445
<b>Phe (D)</b>	Genotype	1	109.74	0.000000	<b>Phe (R)</b>	Genotype	1	48.31	0.000015
	Treatment	1	6.81	0.022854		Treatment	1	0.38	0.550781
	Genotype x Treatment	1	38.40	0.000046		Genotype x Treatment	1	7.20	0.019917
<b>Asn (D)</b>	Genotype	1	154.02	0.000000	<b>Asn (R)</b>	Genotype	1	85.79	0.000001
	Treatment	1	93.75	0.000001		Treatment	1	41.27	0.000033
	Genotype x Treatment	1	25.79	0.000271		Genotype x Treatment	1	62.77	0.000004
<b>Val (D)</b>	Genotype	1	53.35	0.000009	<b>Val (R)</b>	Genotype	1	22.46	0.000481
	Treatment	1	40.17	0.000037		Treatment	1	27.58	0.000204
	Genotype x Treatment	1	2.44	0.144336		Genotype x Treatment	1	5.78	0.033235
<b>Ile (D)</b>	Genotype	1	372.71	0.000000	<b>Ile (R)</b>	Genotype	1	3.27	0.095841
	Treatment	1	31.64	0.000112		Treatment	1	0.01	0.908896
	Genotype x Treatment	1	245.33	0.000000		Genotype x Treatment	1	4.27	0.061041
<b>Orn (D)</b>	Genotype	1	34.28	0.000078	<b>Orn (R)</b>	Genotype	1	8.95	0.011233
	Treatment	1	22.21	0.000503		Treatment	1	0.27	0.615684
	Genotype x Treatment	1	0.25	0.626623		Genotype x Treatment	1	0.53	0.481160
<b>Gly/Ser ratio (D)</b>	Genotype	1	14.525	0.005154	<b>Gly/Ser ratio (R)</b>	Genotype	1	172.77	0.000001
	Treatment	1	44.578	0.000156		Treatment	1	4.12	0.076853
	Genotype x Treatment	1	0.902	0.370111		Genotype x Treatment	1	8.05	0.021928
<b>Total AA (D)</b>	Genotype	1	39.68	0.000233	<b>Total AA (R)</b>	Genotype	1	55.94	0.000710
	Treatment	1	83.05	0.000017		Treatment	1	5.87	0.041625
	Genotype x Treatment	1	2.58	0.146667		Genotype x Treatment	1	4.83	0.059093

---