

**Supplementary Table S1.** Associations between the allele/genotype and the occurrence of malar rash in patients with lupus erythematosus. WT – allele without deletion in rs333; DEL – allele with deletion in rs333

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms n (%)	without symptoms n (%)	P-value (Fisher's exact test)	with symptoms n (%)	without symptoms n (%)	P-value ( $\chi^2$ test with Yates correction)	with symptoms n (%)	without symptoms n (%)	P-value ( $\chi^2$ test with Yates correction)
WT	38 (100.0)	46 (95.8)	0.5010	110 (91.7)	31 (91.2)	0.7959	148 (93.7)	77 (93.9)	0.8330
DEL	0 (0.0)	2 (4.2)		10 (8.3)	3 (8.8)		10 (6.3)	5 (6.1)	
WT/WT	19 (100.0)	22 (91.7)	0.4950	51 (85.0)	14 (82.4)	0.9099	70 (88.6)	36 (87.8)	0.8651
WT/DEL	0 (0.0)	2 (8.3)	0.4950	8 (13.3)	3 (17.6)	0.9553	8 (10.1)	5 (12.2)	0.9712
DEL/DEL	0 (0.0)	0 (0.0)	–	1 (1.7)	0 (0.0)	0.4980	1 (1.3)	0 (0.0)	0.7374

**Supplementary Table S2.** Associations between the allele/genotype and the occurrence of discoid rash in lupus erythematosus patients. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \*p-values for the  $\chi^2$  test with Yates correction

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms n (%)	without symptoms n (%)	P-value (Fisher's exact test)	with symptoms n (%)	without symptoms n (%)	P-value ( $\chi^2$ test with Yates correction)	with symptoms n (%)	without symptoms n (%)	P-value ( $\chi^2$ test with Yates correction)
WT	66 (97.1)	18 (100.0)	0.8862*	19 (95.0)	122 (91.0)	0.8710	85 (96.6)	140 (92.1)	0.2684
DEL	2 (2.9)	0 (0.0)		1 (5.0)	12 (9.0)		3 (3.4)	12 (7.9)	
WT/WT	32 (94.1)	9 (100.0)	1.0000	9 (90.0)	56 (83.6)	0.9564	41 (93.2)	65 (85.5)	0.3351
WT/DEL	2 (5.9)	0 (0.0)	1.0000	1 (10.0)	10 (14.9)	0.9448	3 (6.8)	10 (13.2)	0.4401
DEL/DEL	0 (0.0)	0 (0.0)	–	0 (0.0)	1 (1.5)	0.2677	0 (0.0)	1 (1.3)	0.7811

**Supplementary Table S3.** Associations between the allele/genotype and photosensitivity in lupus erythematosus patients. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \*p-values for the  $\chi^2$  test with Yates correction

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms n (%)	without symptoms n (%)	P-value (Fisher's exact test)	with symptoms n (%)	without symptoms n (%)	P-value (Fisher's exact test)	with symptoms n (%)	without symptoms n (%)	P-value ( $\chi^2$ test with Yates correction)
WT	70 (97.2)	14 (100.0)	0.7353*	135 (92.5)	6 (75.0)	0.1380	205 (94.0)	20 (90.9)	0.9080
DEL	2 (2.8)	0 (0.0)		11 (7.5)	2 (25.0)		13 (6.0)	2 (9.1)	
WT/WT	34 (94.4)	7 (100.0)	1.0000	62 (84.9)	3 (75.0)	0.4997	96 (88.1)	10 (90.9)	0.8309
WT/DEL	2 (5.6)	0 (0.0)	1.0000	11 (15.1)	0 (0.0)	1.0000	13 (11.9)	0 (0.0)	0.4814
DEL/DEL	0 (0.0)	0 (0.0)	–	0 (0.0)	1 (25.0)	0.0520	0 (0.0)	1 (9.1)	0.1553

**Supplementary Table S4.** Associations between the allele/genotype and oral ulcers in lupus erythematosus patients. P-values are given for the  $\chi^2$  test with Yates correction. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \*p-values for Fisher's exact tes

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms n (%)	without symptoms n (%)	P-value	with symptoms n (%)	without symptoms n (%)	P-value	with symptoms n (%)	without symptoms n (%)	P-value
WT	16 (100.0)	68 (97.1)	0.8141	39 (92.9)	102 (91.1)	0.9764	55 (94.8)	170 (93.4)	0.9379
DEL	0 (0.0)	2 (2.9)		3 (7.1)	10 (8.9)		3 (5.2)	12 (6.6)	
WT/WT	8 (100.0)	33 (94.3)	1.0000*	18 (85.7)	47 (83.9)	1.0000*	26 (89.7)	80 (87.9)	0.9382
WT/DEL	0 (0.0)	2 (5.7)	1.0000*	3 (14.3)	8 (14.3)	1.0000*	3 (10.3)	10 (11.0)	0.8058
DEL/DEL	0 (0.0)	0 (0.0)	–	0 (0.0)	1 (1.8)	1.0000*	0 (0.0)	1 (1.1)	0.5445

**Supplementary Table S5.** Associations between the allele/genotype and the occurrence of arthritis in lupus erythematosus patients. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \**p*-values for the  $\chi^2$  test with Yates correction

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value ( $\chi^2$ test with Yates correction)
WT	24 (100.0)	60 (96.8)	0.9261*	60 (90.9)	81 (92.0)	0.9666*	84 (93.3)	141 (94.0)	0.9451
DEL	0 (0.0)	2 (3.2)		6 (9.1)	7 (8.0)		6 (6.7)	9 (6.0)	
WT/WT	12 (100.0)	29 (93.5)	1.0000	28 (84.8)	37 (84.1)	1.0000	40 (88.9)	66 (88.0)	0.8833
WT/DEL	0 (0.0)	2 (6.5)	1.0000	4 (12.1)	7 (15.9)	0.7493	4 (8.9)	9 (12.0)	0.8200
DEL/DEL	0 (0.0)	0 (0.0)	–	1 (3.0)	0 (0.0)	0.4286	1 (2.2)	0 (0.0)	0.7954

**Supplementary Table S6.** Associations between the allele/genotype and the occurrence of proteinuria or presence of urine crystal formation in lupus erythematosus patients. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \**p*-values for the  $\chi^2$  test with Yates correction

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value ( $\chi^2$ test with Yates correction)
WT	12 (100.0)	72 (97.3)	0.6483*	37 (92.5)	104 (91.2)	0.9350*	49 (94.2)	176 (93.6)	0.8714
DEL	0 (0.0)	2 (2.7)		3 (7.5)	10 (8.8)		3 (5.8)	12 (6.4)	
WT/WT	6 (100.0)	35 (94.6)	1.0000	17 (85.0)	48 (84.2)	1.0000	23 (88.5)	83 (88.3)	0.7474
WT/DEL	0 (0.0)	2 (5.4)	1.0000	3 (15.0)	8 (14.0)	1.0000	3 (11.5)	10 (10.6)	0.8214
DEL/DEL	0 (0.0)	0 (0.0)	–	0 (0.0)	1 (1.8)	1.0000	0 (0.0)	1 (1.2)	0.4898

**Supplementary Table S7.** Associations between the allele/genotype and the occurrence of convulsions or psychoses in lupus erythematosus patients. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \**p*-values for the  $\chi^2$  test with Yates correction

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value ( $\chi^2$ test with Yates correction)
WT	22 (100.0)	62 (96.9)	0.9848*	33 (97.1)	108 (90.0)	0.3383*	55 (98.2)	170 (92.4)	0.2073
DEL	0 (0.0)	2 (3.1)		1 (2.9)	12 (10.0)		1 (1.8)	14 (7.6)	
WT/WT	11 (100.0)	30 (93.8)	1.0000	16 (94.1)	49 (81.7)	0.2817	27 (96.4)	79 (85.9)	0.2349
WT/DEL	0 (0.0)	2 (6.3)	1.0000	1 (5.9)	10 (16.7)	0.4387	1 (3.6)	12 (13.0)	0.2870
DEL/DEL	0 (0.0)	0 (0.0)	–	0 (0.0)	1 (1.7)	1.0000	0 (0.0)	1 (1.1)	0.5267

**Supplementary Table S8.** Associations between the allele/genotype and the incidence of anaemia, leukopenia, lymphopenia or thrombocytopenia in lupus erythematosus patients. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \**p*-values for the  $\chi^2$  test with Yates correction

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value ( $\chi^2$ test with Yates correction)
WT	20 (100.0)	64 (97.0)	0.9529*	87 (90.6)	54 (93.1)	0.8127*	107 (92.2)	118 (95.2)	0.5048
DEL	0 (0.0)	2 (3.0)		9 (9.4)	4 (6.9)		9 (7.6)	6 (4.8)	
WT/WT	10 (100.0)	31 (94.0)	1.0000	40 (83.3)	25 (86.2)	1.0000	50 (86.2)	56 (90.3)	0.6765
WT/DEL	0 (0.0)	2 (6.1)	1.0000	7 (14.6)	4 (13.8)	1.0000	7 (12.1)	6 (9.7)	0.8987
DEL/DEL	0 (0.0)	0 (0.0)	–	1 (2.1)	0 (0.0)	1.0000	1 (1.7)	0 (0.0)	0.9733

**Supplementary Table S9.** Associations between the allele/genotype and raised antinuclear antibodies value in lupus erythematosus patients. *P*-values are given for the  $c^2$  test with Yates correction. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \**p*-values for the Fisher's exact test

Allele/ genotype	DLE			LE (SLE + DLE)		
	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value
WT	55 (98.2)	29 (96.7)	0.7667	194 (93.3)	31 (96.9)	0.6949
DEL	1 (1.8)	1 (3.3)		14 (6.7)	1 (3.1)	
WT/WT	27 (96.4)	14 (93.3)	1.0000*	91 (87.5)	15 (93.8)	0.7591
WT/DEL	1 (3.6)	1 (6.7)	1.0000*	12 (11.5)	1 (6.3)	0.8402
DEL/DEL	0 (0.0)	0 (0.0)	–	1 (1.0)	0 (0.0)	0.2787

**Supplementary Table S10.** Associations between the allele/genotype and the occurrence of Raynaud's syndrome in lupus erythematosus patients. WT – allele without deletion in rs333; DEL – allele with deletion in rs333; \**p*-values for the  $c^2$  test with Yates correction

Allele/ genotype	DLE			SLE			LE (SLE + DLE)		
	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value (Fisher's exact test)	with symptoms <i>n</i> (%)	without symptoms <i>n</i> (%)	<i>P</i> -value ( $\chi^2$ test with Yates correction)
WT	23 (95.8)	61 (98.4)	0.9261*	79 (89.8)	62 (93.9)	0.5303*	102 (91.1)	123 (96.1)	0.1815
DEL	1 (4.2)	1 (1.6)		9 (10.2)	4 (6.1)		10 (8.9)	5 (3.9)	
WT/WT	11 (91.7)	30 (96.8)	0.4851	36 (81.8)	29 (87.9)	0.5398	47 (83.9)	59 (92.2)	0.2623
WT/DEL	1 (8.3)	1 (3.2)	0.4851	7 (15.9)	4 (12.1)	0.7493	8 (14.3)	5 (7.8)	0.3988
DEL/DEL	0 (0.0)	0 (0.0)	–	1 (2.3)	0 (0.0)	1.0000	1 (1.8)	0 (0.0)	0.9465