

**Supplementary Table S1.** Sample sources and collaborators

Collaborator	Source <sup>a</sup>	European ancestry		African ancestry		Hispanic ancestry		Korean ancestry		Total		
		SLE	Control	SLE	Control	SLE	Control	SLE	Control	SLE	Control	Total
<b>Discovery population</b>												
Alarcón-Riquelme	GENYO/OMRF	1,231	969	0	0	357	363	0	0	1,588	1,332	2,920
Anaya	UDR	0	0	0	0	135	93	0	0	135	93	228
Bae	HUHRD	0	0	0	0	0	0	640	740	640	740	1,380
Boackle	UCDSM	14	0	7	0	13	0	0	0	34	0	34
Criswell	UCSF	74	0	0	0	0	0	0	0	74	0	74
Freedman	WFU	0	0	0	475	0	0	0	0	0	475	475
Gaffney/Moser	OMRF/UMN	445	0	0	0	0	0	0	0	445	0	445
Gilkeson/Kamen	CLU/MUSC	73	174	263	187	0	0	0	0	336	361	697
Gregersen	FIMR	0	0	0	317	0	0	0	0	0	317	317
Harley	OMRF/CCHMC	665	547	443	213	203	136	0	0	1,311	896	2,207
Jacob	USC	107	0	90	0	430	45	0	0	627	45	672
James	OMRF	122	136	53	58	0	5	0	0	175	199	374
PROFILE group <sup>b</sup>	UAB	724	1,072	581	672	230	144	0	0	1,535	1,888	3,423
Merrill	OMRF	78	2	28	5	0	0	0	0	106	7	113
Niewold	GKCLIR	79	0	139	0	0	0	0	0	218	0	218
Scofield	OMRF	30	63	2	0	3	2	0	0	35	65	100
Stevens	UW	19	0	2	0	12	0	0	0	33	0	33
Tsao	UCLA	30	0	71	7	109	19	0	0	210	26	236
Vyse	ICL	245	528	0	0	0	0	0	0	245	528	773
<b>Subtotal</b>		<b>3,936</b>	<b>3,491</b>	<b>1,679</b>	<b>1,934</b>	<b>1,492</b>	<b>807</b>	<b>640</b>	<b>740</b>	<b>7,747</b>	<b>6,972</b>	<b>14,719</b>
<b>Validation population</b>												
Bae	HUHRD	0	0	0	0	0	0	268	397	268	397	665
Kang	KNU	0	0	0	0	0	0	150	347	150	347	497
Kim	CNU	0	0	0	0	0	0	0	453	0	453	453
Lee	YU	0	0	0	0	0	0	341	0	341	0	341
Shim	EU	0	0	0	0	0	0	145	307	145	307	452
Suh	AU	0	0	0	0	0	0	57	297	57	297	354
<b>Subtotal</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>961</b>	<b>1,801</b>	<b>961</b>	<b>1,801</b>	<b>2,762</b>
<b>Total</b>		<b>3,936</b>	<b>3,491</b>	<b>1,679</b>	<b>1,934</b>	<b>1,492</b>	<b>807</b>	<b>1,601</b>	<b>2,541</b>	<b>8,708</b>	<b>8,773</b>	<b>17,481</b>

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<sup>b</sup>The PROFILE group consists of Kimberly, Brown, Edberg, Petri, Ramsey-Goldman, Vila, and Reveille.

**Supplementary Table S2.** Tests of directly genotyped markers in *ICAM1-ICAM4-ICAM5* and *ITGAM* for association with SLE susceptibility

Gene	SNP (allele, position) <sup>a</sup>		SLE patients		Controls	Call rate	HWE <i>P</i> <sup>b</sup>	Minor allele association		Meta-analysis <sup>c</sup>		
	ancestry		11/12/22	11/12/22	11/12/22		OR (95% CI)	<i>P</i>	<i>P</i> in Q ( <i>I</i> <sup>2</sup> )	OR (95% CI)	<i>P</i>	
<b><i>ICAM1-ICAM4-ICAM5</i></b>												
rs5030340 (G>A, 10243281)	European		3529/344/14	3056/348/11	98.3	0.737	0.88 (0.76-1.02)	0.0826	0.904 (0.00)	0.86 (0.77-0.96)	9.71 x 10 <sup>-3</sup>	
	African		1522/135/3	1697/178/3	97.9	0.622	0.86 (0.69-1.08)	0.191				
	Hispanic		1383/79/0	743/52/2	98.3	0.251	0.76 (0.54-1.08)	0.126				
	Korean		593/33/1	684/43/1	98.2	0.504	0.90 (0.58-1.41)	0.646				
rs5030390 (G>A, 10243537)	European		3387/497/18	2943/516/22	99.4	1.000	0.84 (0.74-0.95)	4.92 x 10 <sup>-3</sup>	0.584 (0.00)	0.82 (0.73-0.91)	2.80 x 10 <sup>-4</sup>	
	African		1641/38/0	1877/55/0	99.9	1.000	0.79 (0.52-1.20)	0.273				
	Hispanic		1388/99/4	725/75/3	99.8	0.448	0.70 (0.52-0.94)	0.0177				
	Korean		639/0/1	739/1/0	100	1.000	2.32 (0.21-25.56)	0.481				
rs5030391 (G>A, 10243637)	European		3822/98/1	3384/93/1	99.6	0.478	0.93 (0.70-1.24)	0.630	0.563 (0.00)	0.92 (0.72-1.18)	0.522	
	African		1665/12/1	1920/14/0	100	1.000	1.15 (0.55-2.42)	0.706				
	Hispanic		1475/13/0	796/11/0	99.8	1.000	0.64 (0.29-1.43)	0.272				
	Korean		639/0/0	740/0/0	99.9	1.000	NC	NC				
rs5030351 (G>A, 10246417)	European		3902/8/0	3440/7/0	99.1	1.000	1.01 (0.37-2.78)	0.988	0.418 (0.00)	0.90 (0.80-1.00)	0.0510	
	African		1034/556/67	1115/705/86	98.6	0.0606	0.88 (0.79-0.99)	0.026				
	Hispanic		1413/62/0	767/28/0	98.7	1.000	1.20 (0.76-1.88)	0.432				
	Korean		636/1/1	734/0/0	99.4	1.000	NC	0.063				
rs5491 (A>T, 10246540)	European		3906/15/0	3446/20/1	99.5	0.0329	0.60 (0.31-1.16)	0.126	0.639 (0.00)	0.89 (0.81-0.98)	0.0236	
	African		1031/563/73	1114/721/88	99.4	0.0354	0.89 (0.79-0.99)	0.0370				
	Hispanic		1424/55/0	771/32/0	99.3	1.000	0.93 (0.60-1.45)	0.753				
	Korean		543/91/4	623/113/3	99.8	0.615	0.96 (0.73-1.27)	0.777				
rs1799969 (G>A, 10255792)	European		3101/717/67	2761/640/41	98.7	0.585	1.05 (0.95-1.17)	0.365	0.289 (19.5)	1.09 (1.00-1.19)	0.0468	
	African		1613/63/2	1852/74/1	99.8	0.530	1.01 (0.73-1.41)	0.941				
	Hispanic		990/433/48	591/183/31	99.0	1.46 x 10 <sup>-3</sup>	1.22 (1.04-1.44)	0.0176				
	Korean		639/0/0	739/0/0	99.9	1.000	NC	NC				
rs5498 (A>G, 10256683)	European		1123/1917/885	1079/1710/695	99.8	0.706	1.11 (1.04-1.18)	2.50 x 10 <sup>-3</sup>	0.278 (22.0)	1.13 (1.08-1.19)	6.05 x 10 <sup>-7</sup>	
	African		1114/495/67	1325/550/59	99.9	0.812	1.11 (0.98-1.25)	0.0989				
	Hispanic		260/725/505	189/388/228	99.8	0.358	1.26 (1.12-1.43)	1.58 x 10 <sup>-4</sup>				
	Korean		220/309/110	286/340/114	99.9	0.438	1.13 (0.97-1.32)	0.107				
rs5030400 (G>A, 10256796)	European		3849/54/1	3420/46/0	99.2	1.000	1.08 (0.73-1.60)	0.695	0.610 (0.00)	1.11 (0.78-1.57)	0.579	
	African		1674/3/0	1922/5/0	99.8	1.000	0.69 (0.16-2.89)	0.608				
	Hispanic		1465/15/0	796/5/0	99.2	1.000	1.63 (0.59-4.48)	0.342				
	Korean		635/0/1	736/0/0	99.4	1.000	NC	NC				
rs3093032 (G>A, 10257336)	European		2914/933/87	2583/830/76	99.9	0.327	1.00 (0.91-1.10)	0.996	0.426 (0.00)	0.96 (0.89-1.04)	0.344	
	African		1608/69/2	1833/97/1	99.9	1.000	0.84 (0.62-1.15)	0.279				
	Hispanic		1288/196/8	681/120/6	100	0.813	0.86 (0.68-1.08)	0.187				
	Korean		593/47/0	676/62/1	99.9	1.000	0.84 (0.57-1.24)	0.380				
rs281437 (G>A, 10258238)	European		2078/1537/318	1767/1427/292	99.9	0.869	0.94 (0.88-1.01)	0.100	0.0386 (64.3)	0.89 (0.84-0.94)	8.28 x 10 <sup>-6</sup>	
	African		741/735/202	752/897/283	99.9	0.562	0.84 (0.77-0.93)	5.34 x 10 <sup>-4</sup>				
	Hispanic		1022/415/54	490/279/38	100	0.918	0.75 (0.65-0.88)	2.44 x 10 <sup>-4</sup>				
	Korean		530/108/2	610/122/7	99.9	0.662	0.95 (0.73-1.23)	0.679				
rs3093030 (G>A, 10258403)	European		1102/1894/876	1063/1691/669	98.2	0.972	1.12 (1.05-1.20)	5.98 x 10 <sup>-4</sup>	0.307 (17.0)	1.16 (1.10-1.22)	2.49 x 10 <sup>-8</sup>	
	African		1353/292/33	1589/317/19	99.7	0.495	1.18 (1.01-1.37)	0.0402				
	Hispanic		267/712/503	192/379/221	98.9	0.255	1.28 (1.13-1.45)	7.28 x 10 <sup>-5</sup>				
	Korean (Pooled) <sup>d</sup>		655/714/195	1156/1084/249	97.9	0.826	1.17 (1.07-1.29)	1.07.E-03				
	Phase I		268/285/84	339/322/79	99.8	0.867	1.15 (0.98-1.35)	0.0841				
Phase II		387/429/111	817/762/170	96.9	0.691	1.18 (1.04-1.33)	7.45.E-03					
rs2228615 (G>A, 10264368)	European		1294/1893/725	1234/1674/561	99.4	0.888	1.11 (1.04-1.18)	2.82 x 10 <sup>-3</sup>	0.369 (4.87)	1.14 (1.08-1.20)	1.05 x 10 <sup>-6</sup>	
	African		1374/271/28	1602/298/17	99.4	0.468	1.14 (0.97-1.34)	0.103				
	Hispanic		307/722/461	208/393/201	99.7	0.573	1.25 (1.11-1.41)	2.87 x 10 <sup>-4</sup>				
	Korean		274/286/78	344/313/78	99.5	0.611	1.13 (0.96-1.33)	0.129				
<b><i>ITGAM</i></b>												
rs1143679 (G>A, 31184312)	European		2551/1221/150	2649/781/48	99.6	0.282	1.67 (1.52-1.83)	5.30.E-29	0.541 (0.00)	1.67 (1.55-1.79)	3.32.E-46	
	African		1189/451/37	1543/366/18	99.8	0.543	1.82 (1.51-2.20)	3.49.E-10				
	Hispanic		1026/429/36	652/147/7	99.9	0.845	1.59 (1.39-1.83)	3.95.E-11				
	Korean		637/0/1	738/0/0	99.7	1.000	NC	NC				

HWE, Hardy-Weinberg equilibrium; OR, odds ratio; CI, confidence interval; Q, Cochran's Q statistic; NC, not calculated.

<sup>a</sup>The major allele (1) was more frequent than the minor allele (2) in the entire controls.

<sup>b</sup>HWE was examined in the controls.

<sup>c</sup>OR and *P* values of meta-analysis were calculated according to a fixed-effects model because *P* value of Q statistic was >0.01.

<sup>d</sup>A total of 4,142 Korean participants from the phase I (n = 1,377) and phase II (n = 2,762) were genotyped for rs3093030. The trans-ancestry meta-analysis was performed with the pooled Koreans (n = 4,142).

**Supplementary Table S3.** Pair-wise  $D'$  and  $r^2$  values among the 12 genotyped SNPs in the *ICAM1-ICAM4-ICAM5* locus

(a) European

$D'$ ( $r^2$ )	rs5030340	rs5030390	rs5030391	rs5030351	rs5491	rs1799969	rs5498	rs5030400	rs3093032	rs281437	rs3093030	rs2228615
rs5030340												
rs5030390	1.00 (0.01)											
rs5030391	1.00 (0.00)	1.00 (0.00)										
rs5030351	1.00 (0.00)	0.26 (0.00)	0.27 (0.01)									
rs5491	1.00 (0.00)	0.08 (0.00)	0.07 (0.00)	1.00 (0.32)								
rs1799969	1.00 (0.01)	1.00 (0.01)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)							
rs5498	0.80 (0.03)	0.84 (0.05)	1.00 (0.01)	1.00 (0.00)	0.05 (0.00)	0.99 (0.14)						
rs5030400	0.81 (0.00)	0.38 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.01)					
rs3093032	1.00 (0.01)	0.88 (0.01)	0.99 (0.00)	1.00 (0.00)	0.59 (0.00)	1.00 (0.02)	1.00 (0.13)	1.00 (0.04)				
rs281437	0.67 (0.06)	0.75 (0.12)	0.84 (0.00)	0.75 (0.00)	0.11 (0.00)	0.98 (0.05)	0.99 (0.32)	1.00 (0.02)	0.98 (0.39)			
rs3093030	0.79 (0.03)	0.84 (0.05)	1.00 (0.01)	1.00 (0.00)	1.00 (0.00)	0.98 (0.14)	0.97 (0.95)	1.00 (0.01)	0.98 (0.13)	1.00 (0.33)		
rs2228615	0.76 (0.02)	0.83 (0.04)	1.00 (0.01)	1.00 (0.00)	1.00 (0.00)	0.97 (0.17)	0.96 (0.78)	1.00 (0.01)	0.96 (0.10)	0.99 (0.27)	1.00 (0.83)	

(b) African

$D'$ ( $r^2$ )	rs5030340	rs5030390	rs5030391	rs5030351	rs5491	rs1799969	rs5498	rs5030400	rs3093032	rs281437	rs3093030	rs2228615
rs5030340												
rs5030390	0.08 (0.00)											
rs5030391	1.00 (0.00)	0.04 (0.00)										
rs5030351	1.00 (0.02)	1.00 (0.00)	0.20 (0.00)									
rs5491	1.00 (0.02)	1.00 (0.00)	0.51 (0.00)	1.00 (0.98)								
rs1799969	0.95 (0.00)	0.02 (0.00)	0.03 (0.00)	1.00 (0.01)	1.00 (0.01)							
rs5498	0.85 (0.01)	0.55 (0.00)	0.97 (0.00)	0.92 (0.05)	0.92 (0.05)	0.98 (0.09)						
rs5030400	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	0.08 (0.00)					
rs3093032	1.00 (0.00)	1.00 (0.00)	0.10 (0.00)	1.00 (0.01)	1.00 (0.01)	0.03 (0.00)	1.00 (0.01)	0.58 (0.02)				
rs281437	0.79 (0.05)	0.69 (0.01)	1.00 (0.00)	0.18 (0.02)	0.18 (0.02)	0.88 (0.01)	0.96 (0.12)	0.56 (0.00)	1.00 (0.04)			
rs3093030	0.91 (0.00)	0.01 (0.00)	0.50 (0.00)	0.91 (0.03)	0.91 (0.03)	0.98 (0.19)	0.98 (0.47)	1.00 (0.00)	1.00 (0.00)	1.00 (0.06)		
rs2228615	0.79 (0.00)	0.02 (0.00)	1.00 (0.00)	0.89 (0.02)	0.89 (0.02)	1.00 (0.21)	0.96 (0.42)	1.00 (0.00)	1.00 (0.00)	0.98 (0.06)	0.99 (0.89)	

(c) Hispanic

$D'$ ( $r^2$ )	rs5030340	rs5030390	rs5030391	rs5030351	rs5491	rs1799969	rs5498	rs5030400	rs3093032	rs281437	rs3093030	rs2228615
rs5030340												
rs5030390	0.64 (0.00)											
rs5030391	1.00 (0.00)	1.00 (0.00)										
rs5030351	1.00 (0.00)	0.01 (0.00)	1.00 (0.00)									
rs5491	1.00 (0.00)	0.81 (0.00)	1.00 (0.00)	0.89 (0.76)								
rs1799969	1.00 (0.01)	1.00 (0.01)	1.00 (0.00)	1.00 (0.00)	0.97 (0.00)							
rs5498	0.88 (0.03)	0.74 (0.03)	1.00 (0.01)	0.73 (0.01)	0.88 (0.02)	1.00 (0.16)						
rs5030400	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	1.00 (0.00)	0.84 (0.00)	1.00 (0.00)					
rs3093032	1.00 (0.00)	1.00 (0.01)	0.02 (0.00)	1.00 (0.00)	0.97 (0.00)	1.00 (0.02)	1.00 (0.10)	1.00 (0.04)				
rs281437	0.69 (0.06)	0.73 (0.10)	1.00 (0.00)	0.26 (0.00)	0.25 (0.00)	1.00 (0.05)	0.99 (0.31)	1.00 (0.01)	1.00 (0.32)			
rs3093030	0.87 (0.03)	0.72 (0.03)	1.00 (0.01)	0.72 (0.01)	1.00 (0.02)	1.00 (0.17)	0.98 (0.95)	1.00 (0.00)	1.00 (0.10)	1.00 (0.30)		
rs2228615	0.86 (0.03)	0.70 (0.03)	1.00 (0.01)	0.70 (0.01)	1.00 (0.02)	1.00 (0.19)	0.97 (0.84)	1.00 (0.00)	0.97 (0.08)	0.99 (0.27)	0.98 (0.87)	

(d) Korean<sup>a</sup>

$D'$ ( $r^2$ )	rs5030340	rs5030390	rs5030391	rs5030351	rs5491	rs1799969	rs5498	rs5030400	rs3093032	rs281437	rs3093030	rs2228615
rs5030340												
rs5030390	1.00 (0.00)											
rs5030391	NA	NA										
rs5030351	NA	NA	NA									
rs5491	0.07 (0.00)	1.00 (0.00)	NA	NA								
rs1799969	NA	NA	NA	NA								
rs5498	0.88 (0.02)	1.00 (0.00)	NA	NA	0.90 (0.11)	NA						
rs5030400	NA	NA	NA	NA	NA	NA	NA					
rs3093032	1.00 (0.00)	1.00 (0.00)	NA	NA	1.00 (0.00)	NA	1.00 (0.03)	NA				
rs281437	0.11 (0.00)	1.00 (0.01)	NA	NA	1.00 (0.01)	NA	0.72 (0.03)	NA	1.00 (0.45)			
rs3093030	0.21 (0.00)	1.00 (0.00)	NA	NA	1.00 (0.04)	NA	0.84 (0.54)	NA	1.00 (0.02)	1.00 (0.05)		
rs2228615	0.15 (0.00)	1.00 (0.00)	NA	NA	1.00 (0.04)	NA	0.80 (0.48)	NA	1.00 (0.02)	1.00 (0.05)	0.96 (0.90)	

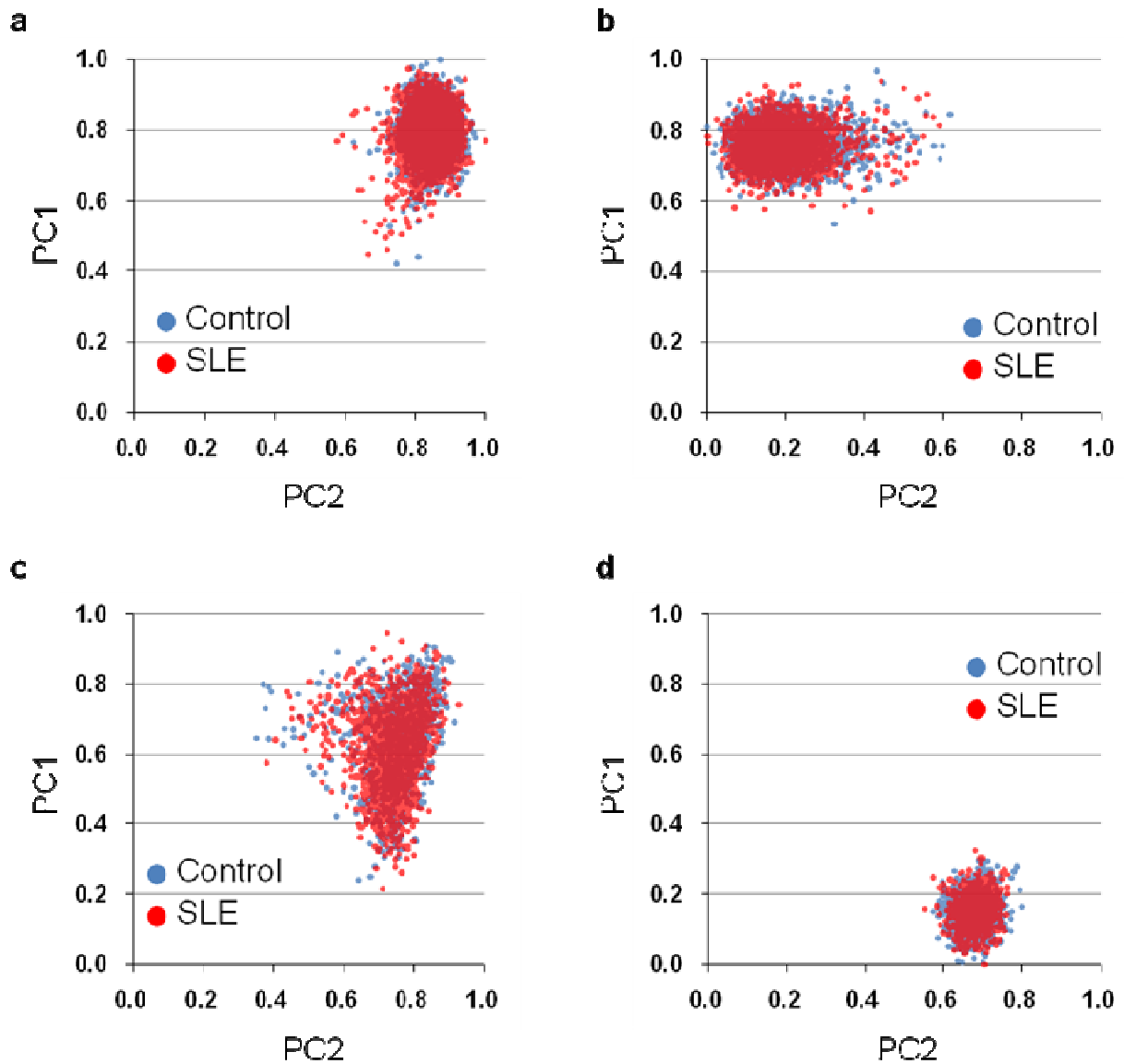
<sup>a</sup>The minor alleles of the SNP (rs5030391, rs5030351, rs1799969, rs5030400) were not found in the Korean population, and the pair-wise LD values with those SNPs were not available (NA).

**Supplementary Table S4.** Summary of epistatic interactions between the seven SLE-associated SNPs in the *ICAM* locus and rs1143679 in *ITGAM*

SNPs in the <i>ICAM1-ICAM5</i> locus (alleles)		SLE patients			Controls			Epistasis test <sup>a</sup>			
Ancestry		GG in <i>ITGAM</i>	GA in <i>ITGAM</i>	AA in <i>ITGAM</i>	GG in <i>ITGAM</i>	GA in <i>ITGAM</i>	AA in <i>ITGAM</i>	Control-case		Case-only	
		11/12/22	11/12/22	11/12/22	11/12/22	11/12/22	11/12/22	$\chi^2$	P	$\chi^2$	P
rs3093030 (G>A)	European	771/1218/538	211/372/177	760/1294/539	42/75/32	361/595/239	14/19/15	0.14	0.708	0.22	0.636
	African	960/203/21	303/55/7	1256/266/215	31/5/1	371/74/4	14/4/0	0.68	0.410	1.98	0.160
	Hispanic	208/509/294	27/71/49	138/295/215	4/11/20	82/199/143	0/5/2	0.74	0.389	3.18	0.0744
rs2569693 (C>T)	European	876/1224/451	260/369/152	895/1304/450	58/65/27	430/591/200	14/24/10	1.32	0.251	0.07	0.793
	African	977/194/18	311/48/7	1283/244/0	31/5/1	381/67/3	14/4/0	1.37	0.243	3.73	0.0535
	Hispanic	231/539/256	30/67/50	158/300/194	4/14/18	98/195/136	0/5/2	1.29	0.257	1.58	0.209
rs5498 (A>G)	European	783/1218/546	210/379/188	771/1319/553	44/73/33	374/604/240	13/20/15	0.00	1.000	0.14	0.713
	African	802/342/45	251/103/11	1032/450/1053	26/10/1	313/129/9	11/6/1	0.23	0.633	0.73	0.395
	Hispanic	204/524/296	28/71/48	135/295/221	3/12/21	79/205/144	0/5/2	0.30	0.582	2.45	0.118
rs2228615 (G>A)	European	872/1223/450	256/367/151	891/1290/445	57/65/27	427/588/198	14/24/10	0.99	0.320	0.04	0.846
	African	965/194/18	310/48/7	1274/248/0	31/5/1	376/68/3	14/4/0	1.22	0.269	3.42	0.0645
	Hispanic	229/536/259	30/66/49	156/298/197	4/14/18	96/195/136	0/5/2	1.78	0.182	1.69	0.194
rs2569702 (T>C)	European	869/1222/460	258/363/160	886/1301/462	58/64/28	427/587/207	13/25/10	0.95	0.330	0.05	0.815
	African	977/194/18	311/48/7	1283/244/0	31/5/1	381/67/3	14/4/0	1.37	0.243	3.73	0.0535
	Hispanic	230/537/259	30/67/50	157/298/197	4/14/18	97/196/136	0/5/2	1.62	0.203	1.59	0.208
rs892188 (C>T)	European	869/1222/460	258/363/160	886/1301/462	58/64/28	427/587/207	13/25/10	0.95	0.330	0.05	0.815
	African	977/194/18	311/48/7	1283/244/1283	31/5/1	381/67/3	14/4/0	1.37	0.243	3.73	0.0535
	Hispanic	230/537/259	30/67/50	157/298/197	4/14/18	97/196/136	0/5/2	1.62	0.203	1.59	0.208
rs281437 (G>A)	European	1292/1048/211	432/283/65	1360/1061/225	90/47/13	628/501/90	29/12/6	0.00	0.957	0.24	0.626
	African	516/526/146	148/172/45	631/696/1032	20/11/6	167/217/67	7/7/4	0.04	0.833	2.94	0.0863
	Hispanic	671/324/31	106/34/7	420/197/34	29/6/1	279/131/19	5/2/0	0.54	0.462	1.74	0.187

<sup>a</sup>Epistatic interaction between the *ITGAM* SNP and an *ICAM* SNP was examined among cases and controls using the PLINK '--epistasis' analysis and among cases only using the PLINK '--fast-epistasis' analysis.

**Supplementary Figure S1.** The results of principal component analyses for both SLE patients and controls of European (A), African (B), Hispanic (C), and Korean (D) ancestries are plotted according to the principal components 1 (PC1) and 2 (PC2), after removal of outliers.



**Supplementary Figure S2.** Analysis for the correlation between expression levels of *ICAM1* (a), *ICAM4* (b, c, and d), and *ICAM5* (e) and 19 SNPs located in the vicinity of the genes. ILMN\_number is the probe identifier of the illumina human WG-6 v3 platform (ILMN\_1812226 for *ICAM1*; ILMN\_1681296, ILMN\_1734660, and ILMN\_2393067 for *ICAM4*; and ILMN\_1802524 for *ICAM5*). The X-axis indicates the SNP positions on the chromosome 19 and the Y-axis indicates  $-\log_{10}(P\text{-value})$  for the SNP association with mRNA levels.

