Supplementary	Table 1 Ana	lysis of the novel	SNPs identified from	resequencing in tv	pe 1 diabetes
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SNP	MAF in controls	Cases N	Controls N	OR (95% c.i.)	Р	r^2	D'
	WAF III CONTINIS		Controls IV	UK (95 % C.I.)	(1-d.f. test)	with rs763361	
ss102661466 (Ala279Leu)	0.065	7,583	7,185	1.15 (1.05-1.26)	2.08 x 10 ⁻³	0.07	0.95
ss102661465 (Gln282Gln)	0.078	7,176	6,759	0.90 (0.82-0.99)	0.0298	0.07	0.99

A multiplicative allelic effects model was assumed (see methods), as it was not significantly different from the full genotype model. OR is reported for the minor allele. MAF = minor allele frequency, P = P value, N = number, OR = odds ratio, 95% c.i. = 95% confidence interval, $r^2 =$ correlation coefficient, D' = Lewontin's D'²⁸

rs number	MAF in controls	P (1-d.f. test)	OR (95% c.i.)	N (cases)	N (controls)
rs763361	0.46	8.67 x 10 ⁻⁸	1.19 (1.12 - 1.28)	3,606	4,092
rs1009847	0.28	8.48 x 10 ⁻³	1.10 (1.02 - 1.18)	3,606	4,092
rs1124980	0.38	2.06 x 10 ⁻⁵	1.15 (1.08 - 1.23)	3,606	4,092
rs11661553	0.44	9.36 x 10 ⁻⁷	0.85 (0.79 - 0.91)	3,606	4,092
rs12604328	0.26	1.40 x 10 ⁻⁴	1.15 (1.07 - 1.24)	3,606	4,092
rs17208329	0.24	0.033	1.09 (1.01 - 1.17)	3,606	4,092
rs17842596	0.38	6.38 x 10 ⁻⁵	1.14 (1.07 - 1.22)	3,606	4,092
rs1788114	0.42	4.04 x 10 ⁻⁴	1.13 (1.05 - 1.20)	3,606	4,092
rs1788234	0.39	2.75 x 10 ⁻³	1.11 (1.04 - 1.18)	3,606	4,092
rs4891781	0.40	7.97 x 10 ⁻⁴	1.12 (1.05 - 1.20)	3,606	4,092

Supplementary Table 2 Analysis of CD226 tag SNPs in type 1 diabetes (restricted to individuals with genotype information available for all single nucleotide polymorphisms)

A multiplicative allelic effects model was assumed (see materials and methods), as it was not significantly different from the full genotype model. OR is reported for the minor allele

MAF = minor allele frequency, OR = odds ratio, 95% c.i. = 95% confidence interval, rs17208112, a SNP only tagging itself, failed quality control checks and was therefore excluded in the analysis

	Cases and controls									
	USA				UK					
rs number	MAF in controls	P (1-d.f. test)	OR (95% c.i.)	N (cases)	N (controls)	MAF in controls	P (1-d.f. test)	OR (95% c.i.)	N (cases)	N (controls)
rs763361	0.46	0.033	1.17 (1.01 – 1.35)	1,143	545	0.46	0.011	1.14 (1.03 – 1.26)	933	3,606
rs1009847	0.25	0.014	1.23 (1.04 - 1.44)	1,143	545	0.28	0.20	1.08 (0.96 - 1.20)	933	3,606
rs1124980	0.38	0.025	1.18 (1.02 - 1.37)	1,143	545	0.38	0.046	1.11 (1.00 - 1.23)	933	3,606
rs11661553	0.42	0.18	0.91 (0.78 - 1.05)	1,143	545	0.44	0.10	0.92 (0.83 - 1.02)	933	3,606
rs12604328	0.26	0.11	1.14 (0.97 - 1.35)	1,143	545	0.26	0.14	1.09 (0.97 - 1.22)	933	3,606
rs17208329	0.20	0.11	1.15 (0.97 - 1.38)	1,143	545	0.24	0.48	1.04 (0.93 - 1.18)	933	3,606
rs17842596	0.38	0.098	1.13 (0.98 - 1.31)	1,143	545	0.38	0.33	1.05 (0.95 - 1.17)	933	3,606
rs1788114	0.44	0.22	1.09 (0.95 - 1.26)	1,143	545	0.42	0.13	1.08 (0.98 - 1.20)	933	3,606
rs1788234	0.38	0.032	1.18 (1.01 - 1.36)	1,143	545	0.39	0.10	1.09 (0.98 - 1.21)	933	3,606
rs4891781	0.38	0.027	1.18 (1.02 - 1.37)	1,143	545	0.40	0.18	1.07 (0.97 - 1.19)	933	3,606

Supplementary Table 3 Analysis of *CD226* tag SNPs in multiple sclerosis (restricted to individuals with genotype information available for all single nucleotide polymorphisms)

A multiplicative allelic effects model was assumed (see methods), as it was not significantly different from the full genotype model. OR is reported for the minor allele MAF = minor allele frequency, P = P value, OR = odds ratio, 95% c.i. = 95% confidence interval, N = number

Supplementary Table 4 Separate analysis of Gly307Ser in autoimmune thyroid disease subgroups: Graves' disease and Hashimoto's disease

Disease	Cohort	MAF in controls	P (1-d.f. test)	OR (95% c.i.)	<i>P</i> combined	N N (trios)(cases)	N (controls)
Graves' disease ¹	UK (case/control)	0.47	0.0182	1.10 (1.02-1.20)	_	2,137	3,511
Graves' disease ^{II}	UK (case/control)	0.47	0.0382	1.08 (1.00-1.16)	_	2,295	5,431
Hashimoto's disease ^{III}	UK (case/control)	0.47	0.367	1.05 (0.94-1.19)	-	663	5,431

A multiplicative allelic effects model was assumed (see methods), as it was not significantly different from the full genotype model. OR is reported for the minor allele

MAF = minor allele frequency, P = P value, OR = odds ratio, 95% c.i. = 95% confidence interval, N = number

^IOriginal Graves' disease samples reported in Nature Genetics¹⁷ ^{II}Additional 158 Graves' disease cases and 1,920 controls

^{III}Hashimoto's disease samples