Web Table 1. Vitamin D Binding Protein (GC, Group Component) Isoforms' Genotype Information in CPRU and MAP Case-Control Studies of Incident, Sporadic Colorectal Adenomas (United States, 1991-2002)

	Genotype encoding each isoform			
GC Isoform	**rs7041**	**rs3755967**	**No. cases/controls genotyped in CPRU study**	**No. cases/controls genotyped in MAP study**
Gc1s-1s	GG	GG	99/111	29/55
Gc1s-1f	GT	GG	56/58	14/22
Gc1f-1f	TT	GG	9/6	2/5
Gc2-1s	GT	AG	103/106	31/55
Gc2-1f	TT	AG	29/34	15/13
Gc2-2	TT	AA	21/42	9/14
Gcx-x[a]	GG	AA	0/0	0/0
Gc2-x[a]	GT	AA	1/0	0/0
Gc1s-x[a]	GG	AG	0/3	0/0

Abbreviations: CPRU, Minnesota Cancer Prevention Research Unit Case-Control study of Colorectal Polyps; MAP, Markers of Adenomatous Polyps Study

[a] Patients with the fourth possible isoform combination (rs7041*G + rs3755967*A, denoted as *Gcx*) were excluded from subsequent analyses of the isoforms due to low numbers (n = 4). For patients with heterozygous genotypes at both SNPs, the *Gc2-1s* combined genotype was assumed (i.e., rs7041*G + rs3755967*G [*Gc1s*] on one chromosome and rs4588*T + rs3755967*A [*Gc2*] on the other chromosome) versus the other theoretical combination *Gc1f-1x* (rs7041*G + rs3755967*A [*Gc1x*] on one chromosome and rs7041*T + rs3755967*G [*Gc1f*] on the other) given the rarity of the *Gcx* isoform.

Web Table 2. Associations[a] of *GC* Genotypes With Circulating 25(OH)D_3 Concentrations (ng/mL) in the CPRU and MAP Case-Control Studies of Incident, Sporadic Colorectal Adenomas (United States, 1991-2002)[b]

		CPRU Study (*n* = 678)[c]			MAP Study (*n* = 264)[d]			Pooled studies (*n* = 942)[e]		
***GC* SNP (A>a)**	**Genotype**	**No. (AA/Aa/aa)**	**β Coefficient**	**95% CI**	**No. (AA/Aa/aa)**	**β Coefficient**	**95% CI**	**No. (AA/Aa/aa)**	**β Coefficient**	**95% CI**
		Among controls (n = 524)								
rs7041 (G>T)	Per T allele	114/164/82	-1.26	-2.67, 0.14	74/92/39	-2.30	-4.57, -0.03	188/256/121	-1.58	-2.77, -0.39
rs3755967 (G>A)[f]	Per A allele	175/143/42	-2.72	-4.20, -1.24	108/79/18	-2.65	-5.18, -0.12	283/22/60	-2.69	-3.97, -1.42
		Among cases (n = 418)								
rs7041 (G>T)	Per T allele	99/160/59	-1.83	-3.24, -0.41	40/63/34	-5.02	-7.96, -2.07	139/223/93	-2.62	-3.90, -1.33
rs3755967 (G>A)[f]	Per A allele	164/132/22	-3.00	-4.57, -1.44	65/60/11	-6.32	-9.70, -2.94	229/192/33	-3.74	-5.17, -2.31
		Among cases and controls (n = 942)[d]								
rs7041 (G>T)	Per T allele	162/241/114	-1.54	-2.53, -0.54	114/115/73	-3.31	-5.09, -1.53	283/356/187	-2.05	-2.92, -1.18
rs3755967 (G>A)[f]	Per A allele	339/275/64	-2.86	-3.93, -1.79	173/139/29	-3.89	-5.89, -1.88	512/414/93	-3.15	-4.10, -2.20

Abbreviations: a, minor allele; A, major allele; CI, confidence interval; Coef, Coefficient; CPRU, Cancer Prevention Research Unit; *GC,* group component (encoding vitamin D binding protein); MAP, Markers of Adenomatous Polyps.

[a] From multivariable linear regression.

[b] Limited to Caucasians genotyped for *GC* rs7041 and rs3755967 (*n* = 942).

[c] β coefficients adjusted for age (continuous) and sex.

[d] β coefficients adjusted for age (continuous), sex, and study (CPRU, MAP).

[e] β coefficients adjusted for age (continuous), sex, study (CPRU, MAP) and case-control status.

[f] rs3755967 is a proxy for rs4588 (r^2 = 1.0, CEU population,1000 genomes, phase 3).

Web Table 3. Mean Circulating 25(OH)D_3 Concentrations (ng/mL) by Vitamin D Binding Protein (GC, Group Component) Isoforms in Pooled CPRU and MAP Case-Control Studies of Incident, Sporadic Colorectal Adenomas (United States, 1991-2002)

	Isoform Genotype					
GC isoform	**rs7041**	**rs3755967**	**Cases/Controls (*n*)**	**Least-squares means[a]**	**95% CI**	***P*[b]**
Gc1s-1s	GG	GG	128/166	27.4	26.2, 28.5	Referent
Gc1s-1f	GT	GG	70/80	26.8	25.3, 28.4	0.99
Gc1f-1f	TT	GG	11/11	25.5	21.5, 29.6	0.96
Gc2-1s	GT	AG	134/161	23.7	22.6, 24.8	<0.0001
Gc2-1f	TT	AG	44/47	25.5	23.5, 27.4	0.57
Gc2-2	TT	AA	30/56	20.7	18.6, 22.7	<0.0001
Gc1-1	GG/GT/TT	GG	209/257	27.1	26.2, 28.0	Referent
Gc1-2	GT/TT	AG	178/208	24.1	23.1, 25.0	0.01
Gc2-2	TT	AA	30/56	20.7	18.6, 22.7	<0.0001

Abbreviations: CI, confidence interval; CPRU, Cancer Prevention Research Unit; *GC,* group component (encoding vitamin D binding protein); MAP, Markers of Adenomatous Polyps.

[a] Least-squares means estimated using linear regression models CEU population,1000 genomes, phase 3

[b] Calculated using Tukey's test for multiple comparisons.