

Supplementary Table 1 Eighty-five instrument SNPs associated with 25-(OH)D and cataract

SNP	chr	pos	beta.outcom e	se.outcom e	pval.outcom e	eaf.outcom e	effect_allele.outco me	other_allele.outco me
rs6698680	1	2329661	0.00121462	0.011176	0.917737	0.244087	G	A
rs1765174 1	15	38869666	-0.0189969	0.0192962	0.324876	0.0741326	A	G
rs1081876 9	9	12571992 3	0.0157275	0.0124606	0.206886	0.210879	G	C
rs9423639	10	5538801	0.0159101	0.0124074	0.199734	0.221067	T	C
rs3472683 4	8	25889606	-0.00711422	0.0104071	0.494232	0.375107	T	C
rs7724488	5	14805189 5	0.0081007	0.0104148	0.436682	0.614409	G	A
rs5588611 6	2	63068489	0.00038797	0.01789	0.982698	0.0884484	T	G
rs867772	1	22097234 3	-0.00461205	0.0151187	0.760323	0.871586	G	A
rs6724965	2	10144015	-0.00822655	0.0101344	0.416939	0.481425	G	A

		1							
rs8063706	16	11909552	0.00833269	0.0114749	0.467735	0.386223	T		A
rs1972994	3	85631142	-0.0276158	0.021484	0.198648	0.940251	T		A
rs7930750	11	14452133	0.0089094	0.0101449	0.379826	0.494339	T		C
rs8018720	14	39556185	0.0041396	0.0108634	0.703158	0.681892	C		G
rs1800440	2	38298139	0.0406887	0.127246	0.749149	0.00167452	C		T
rs7528419	1	10981719	0.0308696	0.019514	0.113667	0.071648	G		A
rs7519574	1	34726552	0.0134746	0.0296036	0.64899	0.0403726	A		G
rs3429313	3	49579017	-0.0129306	0.0194475	0.506115	0.0721579	C		T
rs1241775	11	66076360	-0.0127424	0.0116884	0.275638	0.270527	C		T
rs1231726	12	21352541	-5.60E-05	0.0105419	0.995762	0.355692	G		A
rs9569235	13	55794226	-0.0167176	0.0101409	0.0992453	0.500417	C		A
rs424132	19	11941221	-9.59E-05	0.0167137	0.995422	0.104836	A		T
rs4267257	15	64098137	-0.0445949	0.0523103	0.393933	0.010026	G		A

rs4645189	4	72359910	0.00296095	0.0101543	0.770595	0.532345	T	C
rs1047891	2	21154050 7	0.0137203	0.0153819	0.372405	0.15278	A	C
rs2909218	17	66464546	0.00972553	0.0102844	0.344321	0.592358	T	C
rs5854292 6	19	19379549	0.0194322	0.0189727	0.305731	0.0779873	T	C
rs7864991 0	4	3482213	0.00263702	0.011544	0.81931	0.306288	A	T
rs7574138 1	7	10080945 8	-0.00646384	0.0102546	0.528476	0.507627	G	C
rs5807303 9	4	88287363	-0.00630938	0.0110686	0.56866	0.298611	G	A
rs4616820	4	57745481	0.0163083	0.0101813	0.109203	0.537924	T	C
rs2074735	22	31535872	-0.00199291	0.010745	0.852859	0.33273	C	G
rs3814995	19	36342212	0.0103433	0.0103637	0.318264	0.61017	T	C
rs960596	22	41393520	0.0118254	0.011072	0.285503	0.517416	T	C
rs2762938	20	52778335	-0.00776292	0.01565	0.619869	0.852883	A	G
rs7148857	14	10414323	-0.0104961	0.0110257	0.341114	0.303976	G	C

		7						
rs3573374	16	30945887	0.00150974	0.017182	0.929982	0.903935	A	G
1								
rs1077109	12	24588749	0.0323291	0.0308334	0.294404	0.968625	G	A
0								
rs532436	9	13614983	0.00381004	0.0113568	0.737259	0.274371	A	G
		0						
rs9476310	6	57767576	0.00465002	0.0114311	0.684164	0.423187	T	C
rs1112704	2	27752463	0.0254381	0.0108212	0.0187348	0.417667	A	G
8								
rs964184	11	11664891	0.0153638	0.0115607	0.183861	0.719138	C	G
		7						
rs1280325	11	71132868	0.00567413	0.011074	0.608384	0.308433	G	A
6								
rs1085999	12	96375682	0.00584682	0.0104754	0.576741	0.408213	C	T
5								
rs1090846	1	15546873	-0.00908231	0.0121053	0.45309	0.736636	C	A
9		2						

rs466360	5	14389802 5	-0.00939198	0.0109833	0.392486	0.690656	A	G
rs27774	5	87959033	0.00527962	0.0123031	0.667829	0.782167	A	G
rs3750296	1	17559656	0.00369476	0.0139904	0.791708	0.154452	C	G
rs7266569 8	1	41775589	-0.0205087	0.0109064	0.0600496	0.326022	G	T
rs7828742	8	11696072 9	-0.00363621	0.01025	0.722775	0.583262	G	A
rs7699711	4	69947596	-0.024231	0.0113864	0.0333327	0.71408	T	G
rs1229984	4	10023931 9	-0.0188812	0.0126301	0.134932	0.261277	C	T
rs6438900	3	12514828 7	0.000486493	0.0132673	0.970749	0.179638	G	C
rs804280	8	11612698	-0.0478144	0.031581	0.13002	0.973093	A	C
rs2847500	11	12011442 1	-0.0178007	0.0215275	0.408305	0.0612689	A	G
rs3816117	16	56996158	0.000586731	0.0102318	0.954271	0.546437	C	T
rs7301502	19	11192915	-0.00157997	0.0260475	0.951632	0.0456952	G	A

1								
rs1008588	7	21577960	0.0200023	0.0150964	0.18518	0.136801	C	T
1								
rs1088771	10	82042624	-0.0168282	0.0185833	0.365172	0.921087	T	C
8								
rs1150019	11	27707409	-0.0650096	0.110603	0.556683	0.00221346	A	G
7								
rs7718395	5	11865257	-0.0600006	0.0328697	0.0679407	0.025722	G	C
		4						
rs2012736	2	23462237	-0.0173162	0.015378	0.26015	0.124203	A	C
		9						
rs7792461	16	20392332	0.0267172	0.0130592	0.0407709	0.204818	A	G
5								
rs6127099	20	52731402	0.017504	0.0115294	0.128962	0.387784	T	A
rs4694423	4	72554159	-0.0319822	0.0112067	0.00431947	0.448391	A	C
rs7569755	2	11864826	0.050186	0.017654	0.0044725	0.0928684	A	G
		1						
rs7657132	4	73416601	0.0119168	0.0126426	0.345892	0.253753	G	A

rs942380	6	12185477 8	-0.00831447	0.0114191	0.466541	0.733403	G	A
rs6773343	3	14182559 8	-0.00306657	0.011059	0.781556	0.702563	T	C
rs4635554	2	21389659	0.0146211	0.0110381	0.185303	0.364965	G	T
rs2245133	6	13193109 2	0.00404714	0.010935	0.711302	0.332197	C	T
rs2934744	1	63048045	-0.000840699	0.0121362	0.944773	0.224169	C	A
rs1011468	7	10461379 1	0.00174057	0.0238787	0.941892	0.949836	A	G
rs1792214	11	71069311	-0.0100442	0.0106848	0.347195	0.612887	G	T
rs9668081	12	38602911	0.00777561	0.011814	0.510431	0.755607	T	C
rs8091117	18	28919794	-0.017712	0.0230693	0.442623	0.0498513	A	C
rs4121823	18	47144223	-0.00493225	0.0125998	0.695461	0.795294	A	T
rs7178572	15	77747190	0.0308296	0.0104044	0.00304537	0.407455	G	A
rs1800588	15	58723675	-0.0104406	0.0101188	0.302167	0.507041	T	C
rs174418	15	58687603	-0.00236912	0.0101128	0.814776	0.518923	C	T
rs1328405	9	10766907	-0.00934549	0.0200345	0.64088	0.0684927	C	T

4		3						
rs1279805	11	71223256	0.01072	0.0102909	0.297552	0.443346	T	C
0								
rs2037511	18	61366207	0.00400015	0.0140196	0.775395	0.157633	A	G
rs1012777	1	23029713	0.00687729	0.0123194	0.576674	0.218754	T	A
5		6						
rs1183076	12	11152202	0.0153751	0.0150319	0.306385	0.131141	C	G
4		6						
rs2229742	21	16410960	-0.0020898	0.0119004	0.860602	0.244298	C	G