

SNP	Chrom	Position	A1	A2	Rate count	Sex	GC	Recipient het	Other parent het	Validation	SNP density	Type	CO strand	HapMap2 rate	deCODE rate	Hotspot count
rs4347199	1	118526592	A	G	.5	F	N	N	N	TORSSGP	L	CO cluster	A	1.829467	1.661154	.5
rs749003	1	118531980	T	C	.5	F	Y	Y	N	TORSSGP	L	CO cluster	B	0.581527	0.004318	.5
rs2226273	1	198097051	A	G	1	M	Y	Y	N	TORGP	D			5.240165	1.353777	1
rs701164	1	230685255	G	A	1	F	Y	N	Y		D			12.146157	16.102417	1
rs11585647	1	247507887	C	T	1	M	Y	N	N	TORSSg	D			1.925585	NA	1
rs6717613	2	309480	G	A	1	M	N	Y	Y	TOGP	D			9.340856	NA	1
rs2113820	2	53355627	G	T	1	M	N	Y	N		D			14.776747	3.618419	1
rs10490193	2	66958804	C	A	1	F	Y	N	Y	OG	D			13.785664	11.949364	1
rs7609111	2	76975383	G	A	1	F	N	N	N		L	NCO cluster		3.091294	0.024092	1
rs1517771	2	77014577	T	C	1	F	Y	Y	N		L	NCO cluster, Tract		3.997621	2.732152	0
rs4853273	2	77018329	G	A	1	F	Y	N	N		L	NCO cluster, Tract		3.905728	3.876444	1
rs716730	2	151429031	G	A	1	M	Y	N	N		L			10.852501	3.227196	1
rs13012540	2	200056608	C	T	1	F	Y	N	N	TORSSgP	L			0.127552	0.002142	1
rs825282	2	222522255	T	C	1	F	Y	N	Y		D			19.293358	18.972634	1
rs13419630	2	228056218	G	A	1	M	Y	Y	Y		D			18.369565	37.093293	1
rs4663310	2	239480335	C	A	1	F	Y	N	N		D			4.155929	0.823188	1
rs2975748	2	241518989	G	A	1	M	Y	N	N	TSP	D			2.488724	NA	1
rs787837	3	9727675	T	C	1	M	Y	Y	N	TOGP	D			1.202195	0.081819	1
rs9881117	3	123702960	A	G	0	F	N	N	Y		D			1.608192	1.309069	1
rs10936761	3	173323691	A	C	1	F	Y	Y	N		L			1.208924	1.897151	1
rs13105678	4	40260379	A	C	1	F	N	N	Y	ORssGP	D			2.541384	3.999018	1
rs1352437	4	84755196	T	G	1	F	Y	N	N		L			7.778375	3.931610	1
rs4148149	4	89062285	A	C	1	F	N	N	N		D	Tract		2.401212	1.356051	1
rs13137622	4	89062513	G	T	1	F	Y	N	N		D	Tract		2.420062	1.368195	0
rs12509302	4	152164786	G	A	1	M	Y	N	N		D			4.290054	1.586734	1
rs2625249	4	156519123	G	A	0	M	N	N	Y	TOSgP	D			12.050109	14.609979	1
rs12640997	4	190245038	C	T	1	M	Y	N	Y	TOGP	D			0.853191	NA	1
rs91315	5	1855301	A	G	1	F	Y	N	Y	TORSSGP	L			4.948984	NA	1
rs293102	5	4632694	C	T	1	F	Y	N	Y		L			16.604299	9.192664	1
rs6877265	5	108634128	T	G	1	F	Y	Y	Y	No call	L			18.718147	35.380079	1
rs1051643	5	126171999	C	T	0	F	Y	N	Y	TRgP	D	Tract		1.337151	0.309420	1
rs1051644	5	126172195	T	C	0	F	N	N	Y	TRgP	D	Tract		1.360362	0.309420	0
rs7706554	5	171552219	C	T	.5	F	Y	N	N	TORG	D	CO cluster, Tract	A	3.909591	8.143745	.5
rs2279515	5	171553833	A	G	.5	F	N	N	N	TORG	D	CO cluster, Tract	A	3.898081	7.971111	0
rs2029523	5	171554516	T	C	.5	F	Y	Y	N	TORG	D	CO cluster, Tract	B	3.885133	7.898057	.5
rs882328	5	171554880	A	G	.5	F	Y	Y	N	TORG	D	CO cluster, Tract	B	3.878211	7.859124	0

rs2913851	5	177675217	G	A	1	F	N	Y	N		D		1.200900	0.085199	1	
rs1994124	6	2509443	A	G	1	F	N	Y	Y		L		14.564878	NA	1	
rs4305775	6	3296997	T	G	1	M	N	N	N	TOSGP	D	Tract	14.553147	21.820716	1	
rs9378359	6	3297021	G	A	1	M	Y	N	N	TOSGP	D	Tract	14.553271	21.844996	0	
rs4305776	6	3297090	T	C	1	M	Y	Y	N	TOSGP	D	Tract	14.553628	21.914803	0	
rs3812205	6	16699949	C	T	1	M	Y	N	N		D	NCO cluster	5.723190	11.130449	1	
rs13219866	6	16705542	T	G	1	M	N	Y	Y		D	NCO cluster, Tract	16.458242	17.295359	1	
rs666215	6	16705651	A	C	1	M	Y	Y	N		D	NCO cluster, Tract	16.457963	17.198613	0	
rs532735	6	16706171	G	A	1	M	N	Y	N		D	NCO cluster, Tract	16.441753	16.734659	0	
rs2844670	6	31005726	T	C	1	F	Y	Y	N		L		1.412231	1.003082	1	
rs3818685	6	44280281	A	G	1	F	Y	Y	N	TORSSgP	L		1.920553	4.999843	1	
rs851871	6	67102718	A	G	1	F	Y	N	N		D		1.960590	1.567021	1	
rs4708055	6	74167981	A	C	1	F	Y	Y	N		D		0.717261	0.650717	1	
rs9480861	6	108858460	C	T	1	F	Y	N	N		L		5.972521	4.543918	1	
rs197459	6	143083978	A	G	1	F	N	Y	Y	TORGP	D		15.424001	3.187097	1	
rs3924019	7	511203	G	A	1	M	N	N	N	ORG	D		1.496915	NA	1	
rs10278217	7	22254262	G	A	1	M	Y	N	N		D		3.428370	9.050305	1	
rs2519601	7	93364984	C	A	.5	M	Y	Y	N	TORSSgP	L	CO cluster	A	0.202363	0.042675	.5
rs2677071	7	93387256	G	A	.5	M	N	N	N	TORSgP	L	CO cluster	B	0.001408	0.042675	.5
rs6963030	7	146791213	A	G	1	F	Y	Y	Y	TRSSGP	D		20.470011	8.677746	1	
rs19334	8	9009906	T	C	1	F	Y	Y	N		L		0.960889	0.370120	1	
rs850429	8	16877472	A	G	1	M	N	Y	Y		D		22.016981	28.827977	1	
rs13252794	8	22921931	T	C	.5	F	Y	Y	N	TOGP	D	CO cluster	A	1.198158	1.972554	.5
rs11135693	8	22925154	C	A	.5	F	Y	N	N	TOGP	D	CO cluster, Tract	B	1.145507	1.213649	.5
rs11135694	8	22925515	A	G	.5	F	N	N	N	TOGP	D	CO cluster, Tract	B	1.129192	1.130358	0
rs1531746	8	32119175	T	C	1	M	Y	N	N	TOG	D		9.873400	8.708522	1	
rs6998933	8	38808752	G	A	1	F	Y	N	Y	ORS	D		14.032842	25.710011	1	
rs2513925	8	103701666	A	G	.5	F	Y	N	Y		D	CO cluster	A	2.506383	1.583796	.5
rs2513926	8	103704496	T	C	.5	F	Y	Y	N		D	CO cluster	B	3.281211	1.583796	.5
rs12676425	8	143413857	A	C	1	F	Y	Y	N	TORSSg	D		0.530126	0.967863	1	
rs2148358	9	7385564	C	T	1	F	N	Y	N		L		14.170579	10.412837	1	
rs7855661	9	9499674	C	T	1	M	Y	Y	Y		D		3.323471	6.238951	1	
rs1591033	9	21423394	A	G	1	F	Y	Y	N		D		2.243674	1.899696	1	
rs10904103	10	3872876	C	T	1	M	N	N	Y	TORSSG	D		31.831424	48.114509	1	
rs2768716	10	14818820	A	G	1	F	N	Y	Y		L		16.400510	12.782121	1	
rs2298126	10	16558985	C	A	0	F	Y	N	Y	TORSSgP	L		3.288349	1.185007	1	
rs11192073	10	106216467	A	C	1	F	N	N	N		D		0.831668	0.925138	1	
rs1393957	11	19172911	T	C	1	F	Y	Y	N	TORSSg	D		0.569770	0.027468	1	
rs12223676	11	69907249	C	T	1	F	N	N	Y		D		11.884855	3.087553	1	

rs1215047	11	75759378	A	C	1	F	N	N	N	xtOGP	D		0.019100	0.013225	1	
rs10047441	11	99815753	G	A	1	M	Y	N	N		L		1.494012	0.250427	1	
rs10895115	11	101352427	T	G	1	M	N	Y	Y	TORs	D		4.307756	0.116715	1	
rs740355	12	1723228	C	T	1	M	Y	N	Y	TOSgP	D		2.065905	NA	1	
rs640814	12	4069521	G	A	1	M	Y	Y	N	ORss	D		24.430140	24.103302	1	
rs10492181	12	5749363	T	C	1	M	Y	Y	N	TORSSG	D		19.356655	24.479922	1	
rs1956328	14	48306780	T	C	1	F	Y	N	N		L		3.287131	2.988853	1	
rs9888717	15	23755449	G	A	1	F	Y	Y	N	TOSGP	D	Tract	9.981170	NA	1	
rs1405186	15	23755713	G	A	1	F	Y	Y	N	TOSGP	D	Tract	10.042265	NA	0	
rs12901610	15	85465873	G	A	1	F	Y	N	N		L		3.774357	2.017862	1	
rs11857443	15	100729706	G	A	1	M	Y	N	N		D		2.460175	NA	1	
rs4419043	15	100745680	G	A	1	F	Y	Y	Y	TSSGP	L		29.633471	NA	1	
rs7194309	16	54268659	T	C	1	M	Y	N	N		D		8.416534	1.178086	1	
rs7200935	16	69564497	T	C	1	F	N	Y	N		D		0.195997	0.000287	1	
rs7219550	17	7401671	G	A	1	M	Y	N	N		D		0.271946	0.053604	1	
rs16972050	17	34463094	T	C	1	M	Y	Y	Y	TOsgP	D		7.809958	0.988192	1	
rs1052169	17	43189049	T	G	1	F	Y	Y	N		L		0.885387	1.508172	1	
rs2074405	17	44866001	C	A	1	F	Y	Y	Y	TRsSGP	D		11.074544	18.713073	1	
rs8081659	17	27213990	C	T	1	M	Y	N	Y		D		0.612237	1.617896	1	
rs1540038	18	47182569	C	T	1	F	N	N	Y		L	Tract	6.909134	9.075234	0	
rs1943969	18	47182838	C	T	1	F	Y	N	N		L	Tract	6.861498	9.380396	1	
rs2276186	18	48327815	A	G	1	F	Y	Y	Y	TRSgP	L		16.465994	17.600995	1	
rs7243833	18	57322606	G	A	1	F	N	Y	N		D		4.964306	2.961244	1	
rs12954548	18	62305405	G	T	1	M	N	Y	N	TOSGP	D	Tract	1.032678	0.139324	1	
rs6566131	18	62306527	T	C	1	M	N	Y	N	TOSGP	D	Tract	1.021140	0.006783	0	
rs872664	19	6311818	G	A	1	F	Y	N	Y		D		17.714512	7.606549	1	
rs929777	19	47222310	G	A	1	M	Y	Y	Y	TSSSGP	D		0.342496	0.025617	1	
rs1716274	19	49706736	T	G	1	F	Y	Y	Y	TORSSGP	L		7.086865	2.434152	1	
rs11881919	19	56978525	T	G	1	M	Y	Y	Y		D		1.391946	NA	1	
rs10485487	20	5378864	G	A	1	M	Y	N	N	xTOrSSG	D		19.791516	18.456969	1	
rs6012200	20	36067873	G	A	1	F	Y	N	N	TORSSGP	L		14.099518	11.809377	1	
rs3787412	20	60481054	C	A	1	F	Y	Y	Y	TORs	D	NCO cluster	0.521299	NA	1	
rs4925209	20	60511734	A	G	1	F	Y	Y	N	TOs	D	NCO cluster, Tract	2.003385	NA	1	
rs4925323	20	60511737	T	C	1	F	Y	Y	N	TOs	D	NCO cluster, Tract	2.002826	NA	0	
rs4925325	20	60514224	G	A	1	F	Y	Y	N	TORs	D	NCO cluster, Tract	1.539834	NA	0	
rs2051186	21	33538498	G	A	1	M	N	N	Y		D		3.726848	2.741755	1	
rs174345	22	18033199	A	G	1	M	Y	N	Y		L		3.261495	NA	1	
rs467504	22	18583267	C	T	.5	F	N	N	N		L	CO cluster	A	0.350970	NA	.5
rs468789	22	18586169	T	C	.5	F	Y	Y	N		L	CO cluster	B	0.376600	NA	.5

rs138054	22	44219572	G	A	1	M	N	Y	Y	TOSG	D		0.438627	0.081416	1
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Table S1. Listing of identified gene conversion sites. SNP gives the rs id from dbSNP for each site. Chrom and position give the chromosome and physical position in GRCh37 coordinates as determined by aligning probe sequences to the reference genome. A1 and A2 are the two alleles for the SNP. Rate count gives the weight that the SNP was assigned for computing the rate of gene conversion genome-wide. SNPs with rate count of .5 are ambiguous (see Methods), and SNPs with rate count of 0 were ascertained differently than the informative sites and therefore do not contribute to the rate calculation. Sex lists the sex of the transmitting parent (M for male, F for female). “Recipient het” indicates whether the recipient of the gene conversion is heterozygous (Y for yes, N for no). “Other parent het” indicates whether the other parent (i.e., the partner of the transmitting parent) is heterozygous. Validation indicates how the site was validated. Blank entries indicate that data were not available and validation was not attempted. For non-blank entries, we use the following abbreviations to list the individuals examined for validation: T for the transmitting parent, O for the other parent, R for the gene conversion recipient, S for sibling (upper case S indicates that the sibling received the allele that was putatively gene converted; lower case s indicates the sibling received the non-gene converted allele), G for grandchild (upper case G indicates the grandchild received the gene converted allele, lower case g indicates the grandchild received the non-gene converted allele), P for partner of the recipient, and x indicates that there is a mismatch, with either a lowercase t for a mismatch in the transmitting parent, or a lowercase r for a mismatch in the recipient of the gene conversion. For the site whose validation status is listed as “No call,” sequence data are available for relevant samples, but no genotype calls exist at the position. SNP density is either D for the high SNP density dataset or L for the low SNP density dataset. Type indicates whether the gene conversion site was part of a tract, a crossover (CO) cluster event (also referred to as complex crossover), a non-crossover (NCO) cluster event (which we refer to a clustered gene conversion in the paper text); some events are part of a cluster and a tract. Blank type fields indicate a gene conversion site identified in isolation of other nearby recombination events. CO strand indicates, for crossover cluster events, the relative strand that an event falls on; strands are arbitrarily labeled ‘A’ and ‘B’. HapMap2 and deCODE rate columns give the recombination and crossover rates, respectively from the two maps described in the text. Some sites do not have a rate reported in the deCODE map and are listed as NA. Hotspot count indicates how the site was counted in order to calculate the number of sites that fall in crossover hotspots (see Methods); we count only one site per tract for this purpose.