"Large recurrent microdeletions associated with schizophrenia"

Subjects and ascertainment

Iceland

The Icelandic sample consists of 646 cases with schizophrenia and related psychoses and 32,442 controls. Patients and controls are all Icelandic and were recruited from all over Iceland. Diagnoses were assigned according to Research Diagnostic Criteria (RDC)¹ through the use of the lifetime version of the Schizophrenia and Affective Disorders Schedule (SADS-L)². Of the 646 subjects, 619 were diagnosed with schizophrenia, 22 with schizoaffective disorder and five with unspecified functional psychosis.

The 32,442 Icelandic controls used for this study were recruited as a part of various genetic programs at deCODE and were not screened for psychiatric disorders. The individuals came from genetic programs in the following diseases (approximate number of participants in brackets): Abdominal Aortic Aneurism (400), Addiction (5400), Age-related Macular Degeneration (600), Alzheimer's Disease (700), Anxiety and Panic Disorder (1100), Asthma (1400), Attention Deficit Hyperactivity Disorder (500), Benign Prostatic Hyperplasia (900), Breast Cancer (1600), Chronic Obstructive Pulmonary Disease (900), Colon Cancer (1000), Coronary Artery Disease (4000), Deep Vein Thrombosis (1000), Dyslexia (700), Endometriosis (300), Enuresis (900), Obesity (800), Glaucoma (200), Hypertension (2400), Infectious Diseases (2500), Longevity

(1600), Lung Cancer (300), Melanoma (500), Migraine (1300), Osteoarthritis (2600),
Osteoporosis (3000), Polycystic Ovary Syndrome (1400), Peripheral Artery Disease
(1500), Preeclampsia (800), Prostate Cancer (1400), Psoriasis (900), Restless Legs
Syndrome (500), Rheumatoid Arthritis (700), Stroke (1900), Essential Tremor (400),
Type II Diabetes (1500), Autism (299) and a set of population controls (900). Because
some of the individuals used as controls were participants in more than one program,
the numbers of participants in individual programs sum to more than 32,442.

<u>Finland</u>

The Finnish sample consists of 191 schizophrenics and 200 regionally selected controls that had no medical history of schizophrenia. Approximately half of the sample originated from an internal isolate of Finland having a 3.0 % age corrected lifetime risk for schizophrenia compared to the 1.1% of the general population. Two independent psychiatrists blind to family structures made a consensus diagnosis to give best-estimate lifetime diagnoses according to the criteria of Diagnostic and Statistical Manual of Mental Disorders, 4th edition (DSM-IV)³.

<u>Scotland</u>

The Scottish sample is comprised of 211 schizophrenia cases and 229 controls used in phase I and a replication cohort of 451 schizophrenia cases and 441 controls. All participants self-identified as born in the British Isles (95% in Scotland). All cases met DSM-IV and an ICD-10 criteria for schizophrenia. Diagnosis was made by OPCRIT. Controls were volunteers recruited through general practices in Scotland. Practice lists were screened for potentially suitable volunteers by age and sex and by exclusion of subjects with major mental illness or use of antipsychotic medication.

UK

Samples from the UK subjects (N=105) were drawn from the Maudsley Family Study of psychosis⁴, the psychosis twin study⁵, and the genetics and psychosis (GAP) study. All controls were unrelated European Caucasians (N=96). All patients were interviewed with the Schedule for Affective Disorders and Schizophrenia Lifetime Version (SADS-L; Endicott and Spitzer, 1978) which was supplemented with information from case notes and other relatives to assign a lifetime DSM-IV diagnosis of schizophrenia. The GAP cases were diagnosed using the Item Group Checklist (IGC) of the Schedule for Clinical Assessment in Neuropsychiatry (SCAN)⁶. Only patients with an ICD-10 research diagnosis of schizophrenia were finally included as cases. Patients were receiving a variety of antipsychotic medications at the time of assessment. The study received approval from the Ethics Committee of the South London and Maudsley Trust and after complete description of the study to the participants, written informed consent was obtained.

<u>Italy</u>

Diagnosis of the 85 Italian subjects was identical to that for the GAP sample (See UK subjects). Patients with a diagnosis of psychotic disorders (ICD-10, F20-F25) attending the South Verona CMHS were identified from the South Verona Psychiatric Case Register, and cases with ICD-10 research diagnosis of schizophrenia were finally included. The controls (N=91) were unrelated volunteers randomly selected from the general population of South Verona. The study received ethical approval and after complete description of the study to the participants, written informed consent was obtained.

Germany - Munich

The Munich sample consisted of 615 cases and 614 controls, all Caucasian. Cases diagnosed with DSM-IV schizophrenia were ascertained from the Munich area in Germany. Samples from 195 cases and 192 controls were typed for phase I and the remaining samples used in the replication phase. Detailed medical and psychiatric histories were collected, including a clinical interview using the Structured Clinical Interview for Axis I DSM-IV Disorders (SCID)⁷. Exclusion criteria included a history of head injury or neurological diseases. The controls were unrelated volunteers randomly selected from the general population of Munich.

Germany - Bonn

The Bonn sample is comprised of 491 patients and 875 controls. Patients were recruited from consecutive hospital admissions and were all of German descent. In patients, lifetime best estimate diagnoses according to DSM-IV criteria were based on multiple sources of information including structured interview with the SCID⁷ or SADS-L (Endicott and Spitzer, 1978), the OPCRIT⁸, medical records, and the family history. Best estimate diagnoses were obtained from at least two experienced psychiatrists/psychologists. Controls were derived from two German population-based cohorts, PopGen (N=492) and Heinz Nixdorf Recall (N=383). Ethical approval was obtained from the local Ethics Committees. All participants gave written informed consent.

The Netherlands - Utrecht/ Nijmegen

The Dutch sample consisted of 806 patients and 706 controls from Utrecht and on additional 3,333 control individuals from Nijmegen in the Netherlands. Inpatients and outpatients were recruited from different psychiatric hospitals and institutions

throughout the Netherlands, coordinated via academic hospitals in Amsterdam, Groningen, Maastricht and Utrecht. Detailed medical and psychiatric histories were collected, including the Comprehensive Assessment of Symptoms and History (CASH), an instrument for assessing diagnosis and psychopathology. To exclude related patients and controls, all subjects were fingerprinted (Illumina DNA panel, 400 SNPs). Only patients with a DSM-IV diagnosis of schizophrenia were included as cases. All patients and controls were of Dutch descent, with at least three out of four grandparents of Dutch ancestry. The controls were volunteers and were free of any psychiatric history. Ethical approval was obtained from the local Ethics Committees. All participants gave written informed consent.

The additional controls consisted of 3,333 samples, collected by the Radboud University Nijmegen Medical Centre (RUNMC) for genetic studies (cancer and control samples). All 3,333 participants used in the present study are of self-reported European descent. The study protocol was approved by the Institutional Review Board of Radboud University and all study subjects gave written informed consent.

Denmark

The Danish sample included 442 patients who have been recruited to Danish Psychiatric Biobank from the psychiatric departments at the six hospitals in the Copenhagen region. All patients had been clinically diagnosed with schizophrenia according to ICD-10 (F20 and F25) without ever having received a diagnosis of mania or bipolar illness (F30-31). An experienced research- and consultant psychiatrist verified high reliability of the clinical diagnoses, using OPCRIT. Of the 442 patients 30 were schizoaffective and six were diagnosed with persistent delusional disorder. Nine hundred ninety four healthy control subjects were recruited through the Danish Blood Donor Corps in the Copenhagen area. Apparent behavioral abnormality was an exclusion criterion and all individuals stated that they felt completely healthy and were able to discuss health related issues with a physician. An additional 445 population control samples from the Copenhagen area were recruited by the Danish Headache Center. The Danish Scientific Committees and the Danish Data Protection Agency approved the study and all the patients had given written informed consent prior to inclusion into the project.

<u>Norway</u>

The Norwegian sample included 237 patients who had been recruited to the TOP study from all the psychiatric hospitals in the Oslo area. The patients were diagnosed according to Structural Clinical Interview for DSM-IV (SCID) as schizophrenia (N=153) schizoaffective (N=34), schizophreniform disorder (N=10), psychosis NOS (N=44) and delusional disorder (N=6). The healthy control subjects (N=272) were randomly selected from statistical records of persons from the same catchment area as the patient groups. Only subjects born in Norway, all of Caucasian origin, were contacted by letter and invited to participate. All subjects have given written informed consent prior to inclusion into the project and the Norwegian Scientific-Ethical Committee and the Norwegian Data Protection Agency approved the study.

<u>China</u>

The Chinese sample was from Sichuan Province, Southwest China. Cases (N=438) were ascertained from West China Hospital, and were interviewed by a psychiatrist using the SCID. Diagnosis of schizophrenia was assigned on the basis of the interview and medical records according to DSM-IV criteria. Patients were excluded if they had a history of neurological disorders or head injury, or reported intellectual disability. The unrelated controls (N=463) were volunteers from the local population and were free of

major mental illness. Ethical approval for the project was granted by West China Hospital and written informed consent was obtained from all participants.

The phase I samples were all typed at deCODE using the HumanHap300 chip. The additional samples (phase II) were typed at Duke University (HumanHap300 or HumanHap550), Bonn University (HumanHap550), UCLA (HumanHap550) and Expression Analysis, Durham (Affymetrix GeneChip(r) GenomeWide SNP 6.0 array) and at deCODE (Dosage analysis, Taqman assays). All subjects identified with a CNV using the Taqman assays were confirmed by typing the respective samples on HumanCNV370 chip. A summary of the samples used in the various stages of the study can be found in Supplementary Table 1.

Supplementary Table 1. Summary of the samples used in the various stages of the study

Site	CNV ident	ification	Phase I		Phase II		
	Aff	Ctrl	Aff	Ctrl	Aff	Ctrl	
Iceland	-	17596	646	32442	-	-	
Scotland	-	-	211	229	451	441	
Germany (Munich)	-	-	195	192	420	422	
Germany (Bonn)	-	-	-	-	491	875	
UK	-	-	105	96	-	-	
The Netherlands	-	-	-	-	806	4039	
Italy	-	-	85	91	-	-	
Finland	-	-	191	200	-	-	
Denmark	-	-	-	-	442	1439	
Norway	-	-	-	-	237	272	
China	-	-	-	-	438	463	

For the CNV identification stage, Icelandic trios and parent-offspring pairs, all unaffected with schizophrenia, were used. Phase I included affected and control samples from six research groups - Iceland, Germany (Munich), UK, Italy and Finland. For phase II, additional samples from two sites of the previous six - Scotland and Germany (Munich) – were included (no overlap) as well as data from five additional groups – Germany (Bonn), The Netherlands, Denmark, Norway and China. The Icelandic trios and parent-offspring pairs used for CNV identification were included in the Icelandic controls used in phase I. There were no duplicate samples in the combined phase I and phase II set.

Fluorescent in situ hybridization (FISH)

FISH was carried out at deCODE genetics. Interphases were harvested according to standard cytogenetic methods from human B-lymphoblastoid cell lines (EBV transformed) from six individuals, based on information from the Taqman dosage analysis done previously. We used two BAC probes, RP11-431G14 (covers PRK gene on chromosome 1q21) labelled with biotin (green) and an anchor BAC, RP11-458I7 labelled with digoxigenin (red). The BAC probes were labelled with either Biotin-16-dUTP or Digoxigenin-11-dUTP utilizing a nick translation kit (Roche Applied Science).

The hybridization procedure followed a standard protocol. In short, the probes were denatured at 72°C for 5 minutes and pre-annealed at 37°C for 15 minutes, before being applied to denatured slides. The slides were denatured in 70% formamide at 70°C for 2 minutes, quenched in 2xSSC at 4°C and then dehydrated in an ethanol series. Following an overnight hybridization the slides were washed in 50% formamide at 42°C for 10 minutes and 2xSSC at 42°C for 5 minutes. The biotinylated probe was detected with avidin/streptavidin FITC (Vector Lab) followed by a layer of biotinylated Anti Avidin (Vector Lab) and again one layer of avidin FITC was added. The digoxigenin probe was detected using Sheep anti Digoxigenin Rhodamine (Roche Applied science) followed by a layer of Donkey anti Sheep Texas red (Jackson Immuno Research). After detection the interphases were counter-stained with $9x10^{-3}\mu g 4'$,6-Diamidino-2-phenylindole Dihydrochloride:Hydrate (DAPI) (Sigma) in AF1 mounting medium (Citifluor). The digital imaging was done using a Zeiss Axioplan 2 microscope with Asiocam MRm Zeiss camera and automatic Scanning System Metafer software from Metasystems.

Inheritance of the 1q21.1, 15q11.2 and 15q13.3 deletions in Iceland – evidence for negative selection

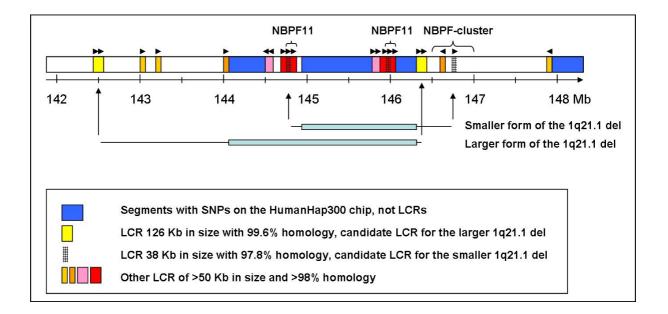
Apart from association to schizophrenia, the deletions at 1g21.1, 15g11.2 and 15q13.3 also otherwise exhibited a pattern of negative selection. In the 33,088 Icelanders (646 schizophrenia patients and 32,442 controls) who are CNV typed, nine carry the deletion on 1q21.1, 62 carry the deletion on 15q11.2 and eight carry the deletion on 15q13.3. But not all of these cases resulted from 'first-generation' de novo events, i.e. some cases inherited the deletions from their parents. Specifically, by examining the haplotype (sequence of SNPs) background of the deletions and the known familial relationship between the carriers, we deduced that the nine 1q21.1 deletions correspond to six independent mutation/deletion events, the eight 15q13.3 deletions correspond to six independent mutation/deletion events and the 62 15q11.2 deletions correspond to approximately 32 separate events (it is noted that the 15q11.2 deletions in the four Icelandic schizophrenia cases correspond to four separate events, which are shared by a few of the controls). Two conclusions could be drawn from these observations. Firstly, carriers of these deletions are not infertile and, moreover, can pass on the deletion to their children. However, the probability that the carriers pass on the deletion to a child appears to be substantially lower than that under a model of neutrality and fecundity of carriers therefore reduced. All three deletions, particularly the 15q11.2, occurred rather frequently as a *de novo* event. Assuming that the deletions do not repair themselves (or only do so with very low probability) during successive meioses, being neutral, the deletions would be expected to have a much higher frequency in the population than observed. Consider the 15q11.2 deletion. When we study the carriers pair-wise, we find that if two carriers are separated by six meioses (second cousins) or less, their deletions are very likely to result from the same deletion event. For example, if two cousins both carry the deletion, they probably both inherited it from a common grandparent who is also a carrier. However, for two carriers that are separated by more

9

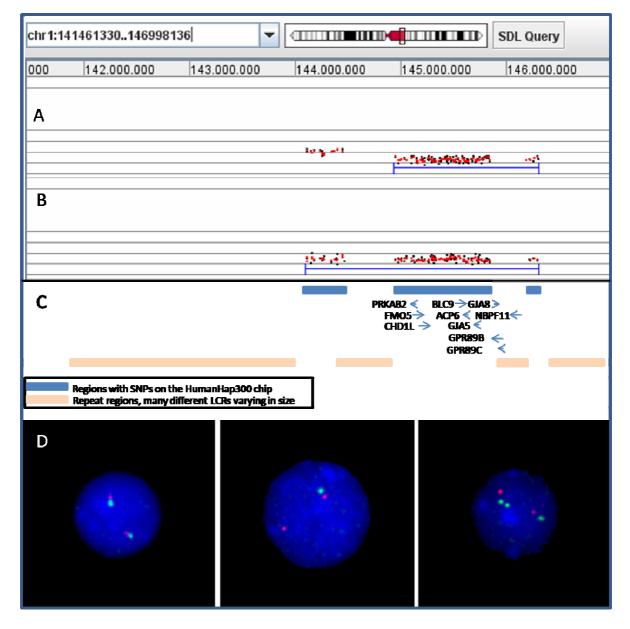
than six meioses, it is nearly always that the deletions they carry are results from two separate deletion events. This implies that the deletions that we observe in carriers, if not first generation *de novo*, would only go back a few generations. If we assume that each deletion carried could be traced back on average five generations, the 62 carriers observed out of 33,088 would correspond to an estimated mutation/deletion rate of $62/(5 \times 33088 \times 2)$ (notice that the factor 2 comes in because a person carries two chromosomes), or about 1.9 events in 10,000. This is slightly higher, but not inconsistent, with the 1 in 9878 transmissions that we directly observed. Suppose we assume a mutation rate of 1 in 10,000. Notice that the chromosome a person carried would include all mutations that happened in its history. Even if we consider only the past 30 meioses (or tracing back to about 900 years ago), under a neutral model, the carrier frequency of 15q11.2 in the population would be expected to be around 30 x (1/10,000) x 2 = 0.006, or about 198 carriers in 33088 individuals examined. This is substantially higher than the 62 carriers we actually observed.

We emphasize that the analysis described above is only meant to be descriptive. More rigorous investigation is needed to fully understand the selection pressure on the 1q21.1, 15q11.2 and 15q13.3 deletions. Given that the deletions are associated with schizophrenia patients, who are known to have fewer children than the general population, a pattern of negative selection might be expected. However, further negative selection pressure could result from reduced fecundity of carriers due to other phenotypes, and also transmission disequilibrium from carrier to child, i.e. the normal chromosome has a higher probability to be passed on than the chromosome with the deletion.

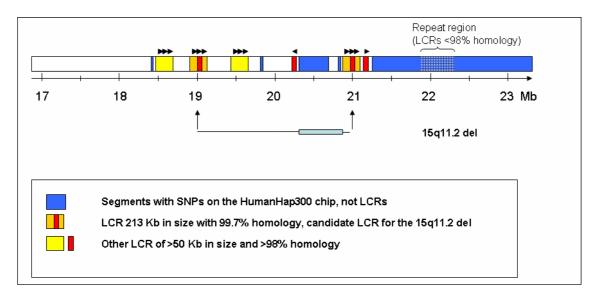
Supplementary Figures



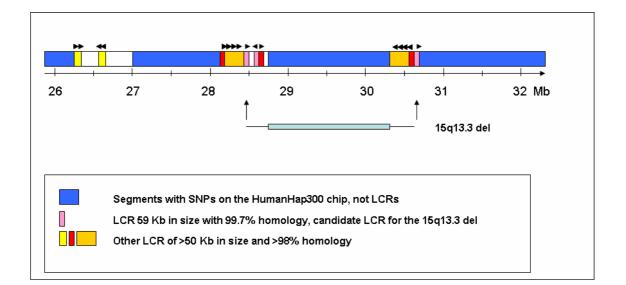
Supplementary Figure 1. Genomic architecture of the 1q21.1 deletions. Many large LCR with high homology are found at the 1q21.1 locus. LCR marked yellow (large arrows) on the picture may mediate NAHR accounting for the larger form of the 1q21.1 deletion. There are also many smaller repeats, 1,000-10,000 bp (not shown on the figure) that potentially could mediate the formation of the deletion. A smaller repeat marked in gray in the figure (smaller arrows) may assist NAHR, accounting for the smaller form of the deletion. Again, for this form of the deletion there are other smaller LCR that potentially could assist with the formation of the deletion (not shown on the figure). The NBPF11 protein (hypothetical protein LOC200030) is duplicated with high sequence homology.Segments marked in blue represent region containing SNPs on the Illumina HumanHap300 chip centromeric to the larger form of the 1q21.1 deletion. Thus, exact size of the larger form of the deletion is not known, the minimum size is 2.19 Mb. Markers on the p-arm are not deleted in the four cases or the control with the larger form of the 1q21.1 deletion.



Supplementary Figure 2. A) DosageMiner output showing the shorter form of the 1q21 deletion (marked in blue). Ninety-nine SNPs on the HumanHap300 chip are affected by the deletion which spans 1.38 Mb. B) DosageMiner output showing the larger form of the 1q21.1 deletion (marked in blue). C) Shows affected genes by both deletions (Coordinates are based on Build 36 of the human genome and positions of genes derived from the UCSC genome browser). LCR flank both deletions (**Supplementary Figure 1**). D) Analysis of the 1q21.1 deletion with fluorescence in situ hybridization (FISH). Two BAC probes, RP11-431G14 (cover the *PRK* gene on chromosome 1q21) labeled with biotin (green) and an anchor BAC, RP11-458I7 labeled with digoxigenin (red) were used as probes for FISH analysis. A cell from a normal control (left) in interphase shows normal FISH signals, one red probe and one green probe per chromosome. A cell from a schizophrenia patient (center) with the 1q21.1 deletion shows aberrant FISH signal, the green signal is missing for one of the chromosomes. A cell from a schizophrenia patient with the 1q21.1 region duplicated (right), two green signals are seen for one of the two chromosomes.



Supplementary Figure 3. A) LCRs flanking the deletion at 15q11.2. Several LCR at this locus can mediate the formation of the deletion. The light blue bar shows the minimum size of the deletion, and vertical arrows point to the regions with longest homologous sequences on both sides of the deletion, harbouring possible breakpoints. Coordinates are in line with Build 36 of the human genome.



Supplementary Figure 4. A) LCRs flanking the deletion at 15q13.3 It is not clear which LCR might mediating the formation of the recurrent deletion. Light blue bar shows the minimum size of the deletion, and vertical arrows point to the only high homology sequence with same orientation on both sides of the deletion in the UCSC human genome reference sequence. Coordinates are in line with Build 36 of the human genome.

Supplementary Table 2. Low copy repeats flanking *de novo* CNVs.

CNV del dup del	found in Phase I 8	Distal	Proximal		Reference if present in
dup del			1 Toxima	homology	CNV databases
del	10	>5	>5	many	
	12	>5	>5	many	
dol	1	-	>5	many	
uei	2	-	-		
dup	1	-	-		
	1	-	-		
	1	-	-		
	1	-	1	99.30%	
		-	-		
		>5	_	many	
		-	-	many	
001	•				lafrate/Tuzun:196918333-
امل	1	> 5	>5	many	198862488
				many	10002400
		-	-		
		-	-		
		-	-		
			-		
		>5	-	many	
del	1	-	-		Redon: 162760913-
del	35	-	-		163153251
del	1	-	-		
del	1	4	-	98%	
del	1	-	-		Redon: 106472-298664
		-	-		
•		-	-		
		-	2	99 1%	
		-			lafrate: 5431460-5671684
•				•	
				many	
uei	I	-	-		lafrate:3586932-5909600 & 3611006-4928252 &
del	1	2	-	98.7	3671288-5942813
del	1	>5	-		
		-	-		
		-	-		
		>5	>5	many	
		-	-	many	
		_	_		
•		-	-		
•		-	-		
		-	-		Redon/lafrate: 18263733- 21365850 & lafrate:18403666- 24241085
uei	30	>0	>0	шапу	21241985 Redon/lafrate: 18263733- 21365850 & lafrate:18403666-
dup	128	>5	>5	many	21241985
	del del del del del del del del del del	dup 1 del 1	dup1-dup1-del1-del1-del1>5del1-del58>5del58del58del58del58del58del58del58del58del58del58del58del58del58del58del58<	dup1dup1del1del1del1>5-del1<	del2dup1dup1del1del1del1>5-manydel1>5>5manydel1d

chr15:2030654926208861 chr15:2872357730302218 chr15:4763530347679448 chr16:1503294216197033	dup del del del	6 7 94 10	>5 >5 - >5	>5 >5 - >5	many many many	lafrate:21241957- 21833734 & Tuzun:21485317- 22595351 & 21500522- 22586272 &
chr16:2151597321647775	del	31	>5	>5	many	Redon:21212773- 21856623 Tuzun:21485317- 22595351 & 21500522-
chr16:2185662322331199	del	17	>5	>5	many	22586272
chr16:2956336530085308	del	11	>5	>5	many	22000212
chr16:7775791578273834	del	1	-	-	many	
chr16:8142979381491808	del	1	-	-		
	uoi	•				Redon: 86986674-
chr16:8692198487097884	del	1	-	-		87137417
chr17:1404175415390352	del	5	2	>5	many	
chr17:1539035220231611	del	1	_ >5	>5	many	
chr17:3188966433323543	dup	11	>5	>5	many	
chr17:7969761155912	del	1	2	4	many	
chr17:90710439382978	del	1	-	_	many	
chr18:7502083775408356	dup	1	-	-		
chr19:2084476420914290	dup	6	2	1	98%	
chr19:2670401822341	del	1	-	-	0070	
chr19:5426464154560863	del	1	>5	>5	many	
chr20:1461072114884935	del	1	-	-	many	
chr20:1484977615034277	del	. 22	-	-		
chr20:1487433315174767	del	5	-	-		
chr21:3484610335391627	dup	1	-	-		
	aap	·				lafrate: 16931796- 17441713 & 17011366-
chr22:1725778717373128	del	56	>5	>5	many	17417535
chr22:1906349519792353	del	3	>5	>5	many	
						McCarroll: 21032391- 21564096 & lafrate: 20487965-21442582 & 20759608-21442582 &
chr22:2106340121394287	del	3	>5	>5	many	21032391-21564096

Of the 66 identified CNVs tested for association 23 are flanked by large repetitive segments (distal or proximal) likely to harbor LCRs. Those flanked by repetitive segments are in most cases seen in more of the 32,442 controls tested. Reference is given where we have found the CNV in a CNV database. Coordinates are based on Build 36 of the human genome. lafrate: BAC microarray analysis of 236 putative CNP regions in 55 individuals⁹. Tuzun: Fosmid mapping paired-end sequences from a human fosmid DNA library (297 ISV sites)¹⁰. Redon: SNP and BAC microarray analysis of HapMap data phase II (270 Individuals)¹¹. Locke: CNP in duplication-rich regions using array CGH in the HapMap populations(269 individuals)¹². McCarrolI: Deletions from analysis of SNP genotypes, using the HapMap Phase I data, release 16a. (269 individuals)¹³.

Supplementary Table 3

		Boundari	es of CNV	Ice	eland	Scot	land	Geri	nany	U	K	It	aly	Fin	land	Combin	ned
Build36		First SNP	Last SNP	Aff (N=648)	Ctrl (N=32442)	Aff (N=211)	Ctrl (N=229)	Aff (N=195)	Ctrl (N=192)	Aff (N=108)	Ctrl (N=92)	Aff (N=85)	Ctrl (N=91)	Aff (N=191)	Ctrl (N=200)	OR	P-value
chr1:144943150146293282	del	rs6656361	rs2932454	1	8	2	0	1	0	0	0	0	0	0	0	8.7 (1.0-50)	0.02
chr1:144943150146293282	dupl	rs6656361	rs2932454	1	12	0	0	0	0	0	0	0	0	0	1	na.	ns.
chr1:241675290241777030	del	rs6702982	rs1121276	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr1:6648717266981676	del	rs6664618	rs604737	0	2	0	0	0	0	0	0	0	0	0	0	na.	na.
chr10:6788042868013385	del	rs1911314	rs2631221	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr10:79177908021528	del	rs1244502	rs187821	0	2	0	0	0	0	0	0	0	0	0	0	na.	na.
chr10:8156759481962366	del	rs10885307	rs3000954	0	3	0	0	0	0	0	0	0	1	0	0	na.	na.
chr11:128201807134435899	del	rs588407	rs4540845	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr11:8460329185465999	dupl	rs938727	rs541458	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr12:115338506115813464	dupl	rs1732325	rs4767470	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr12:9851232598707024	del	rs3851626	rs11110041	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr15:2030654920777695	del	rs8040193	rs3883043	4	58	2	0	3	0	0	1	0	0	0	1	3.2 (1.1-8.0)	0.02
chr15:2030654920777695	dupl	rs8040193	rs3883043	2	128	0	0	1	2	0	0	0	0	1	0	na.	ns.
chr15:2030654926208861	dupl	rs8040193	rs1635168	0	6	0	0	0	0	0	0	0	0	0	0	na.	na.
chr15:2872357730302218	del	rs2046362	rs4779984	1	7	1	0	1	0	0	0	0	0	0	0	8.9 (0.8-58)	0.04
chr15:4763530347679448	del	rs1588127	rs7176306	0	94	0	0	0	0	0	0	0	0	0	0	na.	na.
chr16:1503294216197033	del	rs4985124	rs8056397	0	10	0	0	0	0	0	0	0	0	0	0	na.	na.
chr16:1503294216197033	del	rs4985124	rs8056397	0	10	0	0	0	0	0	0	0	0	0	0	na.	na.
chr16:2151597321647775	del	rs194548	rs8050407	1	31	0	0	0	0	0	0	0	0	0	0	na.	ns.
chr16:2151597321647775	del	rs194548	rs8050407	1	31	0	0	0	0	0	0	0	0	0	0	na.	ns.
chr16:2185662322331199	del	rs7498705	rs12446433	0	17	0	0	0	0	0	0	0	0	1	0	na.	ns.
chr16:2956336530085308	del	rs8054172	rs7202714	1	11	0	0	1	0	0	0	0	0	0	0	na.	ns.
chr16:2956336530085308	del	rs8054172	rs7202714	1	11	0	0	1	0	0	0	0	0	0	0	na.	ns.
chr16:7775791578273834	del	rs11150140	rs7186420	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr16:8142979381491808	del	rs9934411	rs11150519	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr16:8692198487097884	del	rs7500421	rs868874	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr17:1404175415390352	del	rs2856177	rs2938171	0	5	0	0	1	0	0	0	1	0	0	0	na.	ns.
chr17:1539035220231611	del	rs2938171	rs9909852	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr17:3188966433323543	dupl	rs8067765	rs306801	0	11	0	0	0	0	0	0	0	0	0	0	na.	na.
chr17:7969761155912	del	rs4968132	rs12936071	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.

chr17:90710439382978	del	rs3785991	rs4239107	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr18:7502083775408356	dupl	rs9954753	rs383068	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr19:2084476420914290	dupl	rs1465430	rs10500214	0	6	0	0	0	0	0	0	0	0	0	0	na.	na.
chr19:2670401822341	del	rs7256434	rs4807156	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr19:5426464154560863	del	rs3810185	rs2303759	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr2:1944311594900	dupl	rs4637157	rs6758730	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr2:197605805204072966	dupl	rs13426748	rs2247380	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr2:198783049199060613	del	rs10170042	rs4413156	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr2:239980943242692820	del	rs870790	rs12469535	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr2:5094704051164471	del	rs11884918	rs11896803	0	1	0	0	0	0	0	0	0	0	0	1	na.	na.
chr2:9551468697033113	del	rs10201845	rs1256991	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr20:1461072114884935	del	rs1932954	rs2423873	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr20:1484977615034277	del	rs2423846	rs431587	0	22	0	0	0	0	0	0	0	1	0	0	na.	na.
chr20:1484977615034277	del	rs2423846	rs431587	0	22	0	0	0	0	0	0	0	1	0	0	na.	na.
chr20:1487433315174767	del	rs173293	rs6043152	0	5	0	0	0	0	0	0	0	0	0	0	na.	na.
chr21:3484610335391627	dupl	rs2247891	rs1006293	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr22:1725778717373128	del	rs2543958	rs5993463	1	56	0	0	0	0	0	0	0	0	0	0	na.	ns.
chr22:1906349519792353	del	rs6003971	rs140392	0	3	0	0	0	0	0	0	0	0	0	0	na.	na.
chr22:2106340121394287	del	rs6519260	rs5996362	0	3	0	0	0	0	0	0	0	0	0	0	na.	na.
chr3:174806420176937369	del	rs10513715	rs9858278	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr3:197326041197704191	del	rs7432894	rs9858020	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr3:7122351171819797	dupl	rs11128206	rs3796226	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr3:9501998099373057	del	rs9681884	rs10935259	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr3:97879021101883423	del	rs1386678	rs1143781	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr4:151856718151884547	del	rs6535746	rs1451634	0	4	0	0	0	0	0	0	0	0	0	0	na.	na.
chr5:3460306734668956	del	rs7736168	rs408815	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr5:5811678772845587	del	rs446155	rs2914544	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr6:162767020162943840	del	rs9456777	rs7756486	0	35	0	0	0	0	0	0	0	0	0	0	na.	na.
chr6:1669973916803452	del	rs236981	rs3812199	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:146077700147445123	del	rs6956550	rs1859539	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:149081295765	del	rs7806592	rs12718123	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:1560987216251148	dupl	rs6946852	rs1295164	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:157553706158812247	del	rs10949695	rs1124425	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:50502675190933	del	rs7458161	rs6955907	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:52297205653268	dupl	rs13223581	rs7780518	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.

chr7:5721260857659300	dupl	rs13240443	rs4870626	0	74	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:7238828173777987	del	rs1178970	rs810364	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr7:8388739385199723	del	rs1228960	rs1533029	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr8:39315764252805	del	rs10503233	rs10089026	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.
chr9:1942015739305	del	rs10964134	rs4742122	0	1	0	0	0	0	0	0	0	0	0	0	na.	na.

Four deletions, three on 16p and one on 20p, are observed twice *de novo* in our discovery sample, and listed in the table as duplicates. Locations are based on Build 36 of the human genome.

Supplementary Table 4. Diagnosis, family history, age of onset, response to neuroleptics (based on available records) and learning ability in cases carrying the 1q21.1 deletion associating with schizophrenia.

Case ID	Diagnosis	Family history	Age of onset	Gender	Response	Other
Munich 1	DSMIV:295.3	Yes	24	М	Yes	Aggressive, learning disability, not MR
Bonn 1*	DSMIV:295.3	No	33	F	Yes	Not MR
Bonn 2	DSMIV:295.3	No	16	F	Relapse	Not MR, depressive symptoms
Iceland 1	RDC:126.3	No	26	F	Yes	Not MR
Scotland 1	DSMIV:295	No	43	F	Yes	Not MR
Scotland 2*	DSMIV:295	Yes	21	Μ	Yes	Not MR
Scotland 3*	DSMIV:295	No	32	М	Yes	Not MR, mother with low IQ
Scotland 4*	DSMIV:295	No	33	F	Yes	Not MR, borderline learning disability
Denmark 1	DSMIV: 295	Yes	24	F	Yes	Not MR
Denmark 2	DSMIV: 295	No	23	Μ	Yes	Borderline mental retardation
Denmark 3	ICD10: Scz (F20)	No	20	Μ	No	Not MR

* There are two forms of the 1q21.1 deletion, long and short. Those marked with an asterisk in the table above have the larger form. MR=mentally retarded.

Supplementary Table 5. Diagnosis, family history, age of onset, response to neuroleptics based on available records and learning ability in cases carrying the 15q11.2 deletion associating with schizophrenia and related psychoses.

Case ID	Diagnosis	Family history	Age of onset	Gender	Response	Other
Munich 1	DSMIV: 295	Monozygotic twin brother with unknown psychiatric diagnosis	24	Μ	Yes	Not MR, very aggressive as child
Munich 2	DSMIV: 295	No	25	F	Yes	Not MR
Munich 3	DSMIV: 295	Mother depression	32	Μ	Yes	Not MR
Munich 4	DSMIV: 295	No	17	Μ	Yes	Not MR
Munich 5	DSMIV: 295	No	23	F	Yes	Not MR
Bonn 1				Μ		Not MR
Iceland 1		No	39	Μ	Yes	Not MR
Iceland 2		No	29	F	Yes	Not MR
Iceland 3	RDC: 126.3	Yes, schizophrenia	33	Μ	Yes	Not MR
Iceland 4	RDC: 126	Yes, schizophrenia	16	F	Yes	Not MR
Scotland 1	DSMIV: 295	No	37	F	Yes	Not MR, borderline learning difficulties
Scotland 2	DSMIV: 295		23	F	Yes	Not MR
Scotland 3	DSMIV: 295		32	F	Yes	Not MR
Scotland 4	DSMIV: 295	No	22	Μ	Yes	Not MR
Scotland 5	DSMIV: 295	No	31	F	Yes	Not MR, nervous breakdown at 22
Scotland 6	DSMIV: 295	No	15	Μ	Yes	Not MR, heroin addiction
Scotland 7		Yes, schizophrenia	24	F		
England 1		Yes, schizophrenia (co-twin)	25	Μ	Yes	Not MR, no drug abuse, primarily negative symptoms
Denmark 1	ICD10: F20	No	26	М	No	Not MR
Denmark 2	ICD10: F20	No	20 27	M		Not MR
Denmark 3	ICD10: F20	No	21	M	•	Not MR ,
	10010.120		21	IVI	•	cannabis abuse
Denmark 4	ICD10: F25	Yes	16	М	Yes	Not MR
Holland 1	DSMIV: 295.30		19	F		Not MR

Holland 2	DSMIV: 295.30	No	20	Μ	Not MR
Holland 3	DSMIV: 295.30	No	20	Μ	Not MR
Holland 4	DSMIV: 295.30		22	Μ	Not MR

MR=mentally retarded.

Supplementary Table 6. Diagnosis, family history, age of onset, response to neuroleptics based on available records and learning ability in cases carrying the 15q13.3 deletion associating with schizophrenia.

Case ID	Diagnosis	Family history	Age of onset	Gender	Response	Other
Munich 1	DSMIV: 295	Yes	24	М	Yes	Not MR
Iceland 1		Yes	30	Μ	Yes	Not MR
Scotland 1	DSMIV: 295		20	Μ	Yes	Not MR, IQ 83
Norway 1	DSMIV: 295.4		31	F	Yes	Not MR
Holland 1	DSMIV: 295.20		23	Μ		Not MR
Holland 2	DSMIV: 295.30	Yes	39	F		Not MR
Holland 3	DSMIV: 295.30			Μ		Not MR

MR=mentally retarded.

Marker	Alle	le	OR	P-value	chr	Location (bp)	Gene
rs124068	344	С	1.14	0.0010	1	145436035	
rs121411		Č	1.13	0.0023	1	145449387	
rs104658		Č	1.12	0.0033	1	145699364	GJA5
rs668417		Č	1.11	0.0067	1	145683484	
rs264457		Č	0.90	0.0075	1	145409110	
rs495043		A	0.90	0.0076	1	145394019	OR13Z2P
rs952477		A	1.10	0.0113	1	145716820	GJA5
rs107937		С	1.10	0.0150	1	145706931	GJA5
rs413295		C	1.09	0.0258	1	145430649	
rs127559		C	0.92	0.0300	1	145658465	
rs120224		А	0.92	0.0328	1	145463869	BCL9
rs613089		С	1.09	0.0356	1	145547811	BCL9
rs495032		A	1.10	0.0372	1	145321460	
rs109003		С	0.92	0.0431	1	145096540	PRKAB2 LOC400780
rs134270		C	1.08	0.0432	1	145744388	
rs376651		A	0.89	0.0434	1	145596846	ACP6
rs495036		А	1.09	0.0472	1	145025789	LOC441904
rs223657		А	0.92	0.0495	1	145560511	BCL9
rs193297		А	0.92	0.0603	1	145155565	FMO5
rs112400		С	1.08	0.0662	1	145304073	
rs945742		A	0.93	0.0728	1	145251781	
rs495040		G	1.08	0.0787	1	145258026	
rs903786		С	1.09	0.0839	1	145830625	LOC391092 GJA8
rs112401		A	1.13	0.0856	1	145824905	LOC391092 GJA8
rs104942		А	1.14	0.1012	1	145490518	BCL9 '
rs903784	Ļ	А	0.92	0.1020	1	145830723	LOC391092 GJA8
rs999095		А	0.92	0.1048	1	145676851	
rs118110		С	1.07	0.1075	1	145047742	LOC440678
rs21327		С	1.07	0.1119	1	144995145	LOC440677
rs382012	9	А	1.06	0.1145	1	145558596	BCL9
rs112399	84	А	0.94	0.1174	1	145258353	
rs141727	'9	А	1.09	0.1212	1	145574517	BCL9
rs288331	8	G	1.06	0.1216	1	145315767	
rs235397	'4	А	1.06	0.1297	1	145322880	
rs193297	'8	С	0.95	0.1532	1	145194387	CHD1L
rs124083	95	А	1.07	0.1535	1	145372992	
rs112399		Т	1.06	0.1559	1	145184188	CHD1L
rs227555	2	С	1.06	0.1566	1	145598569	ACP6
rs647596	;	G	1.05	0.1593	1	145002018	LOC440677
rs659375	52	С	1.06	0.1766	1	145196592	CHD1L
rs235398	6	С	0.95	0.1781	1	145288493	
rs207774	9	А	1.05	0.1810	1	145119261	PRKAB2 LOC400780
							FMO5
rs115767	'60	С	1.09	0.1956	1	145806592	LOC391092
rs235398		G	0.95	0.2020	1	145294180	
rs495032	8	С	1.05	0.2235	1	145471435	BCL9
rs235354	4	А	0.95	0.2365	1	145515224	BCL9
rs235398	3	С	1.04	0.2809	1	145279761	
rs754109	0	С	1.04	0.3058	1	145353686	OR13Z1P

Supplementary Table 7. Allelic association results for markers on the Illumina HumanHap300 within the 1q21.1 deletion.

rs627219 G 0.92 0.3068 1 145539979 BCL9 rs10900403 G 0.95 0.3305 1 445607358 rs2999613 A 1.06 0.3586 1 146286966 rs10494246 A 1.10 0.3592 1 145614928 ACP6 rs2354432 A 1.05 0.3811 1 145159853 FMO5 rs885239 A 0.95 0.3831 1 145594226 ACP6 rs1353431 C 0.94 0.3926 1 145764604 LOC391092 rs1390510 A 1.07 0.3975 1 145497947 BCL9 rs14960392 G 0.96 0.4064 1 145203172 CHD1L rs1494245 A 1.04 0.4135 1 14568301 OR1322P rs1538423 C 0.97 0.4348 1 145542845 rs584323 C 0.97 0.4348 1 14554817 BCL9 rs1572825 A 0.97 0.4348 1 14554817 BCL9 rs1572825 A 0.97 0.4367 1 145473996 BCL9 rs1814653 A 0.96 0.4757 1 145473996 BCL9 rs1814653 A 0.96 0.4757 1 14542845 rs16442467 C 0.94 0.5305 1 14518117 BCL9 rs1998247 A 1.03 0.5358 1 14512842 PRKA82JFMO5 rs1998627 C 0.95 0.5319 1 145128642 PRKA82JFMO5 rs1908627 C 0.95 0.5319 1 145128642 PRKA82JFMO5 rs1908627 C 0.95 0.5319 1 14527849 GJA5 rs946904 C 0.98 0.5768 1 14509356 ACP6 rs2992453 A 0.97 0.5686 1 14509356 ACP6 rs2992453 A 0.98 0.5768 1 14528434 LOC440679 LOC388684 rs946904 C 0.98 0.5768 1 14509356 ACP6 rs2992453 A 0.98 0.5768 1 14509356 ACP6 rs2992453 A 0.98 0.5561 1 14528434 LOC440680 rs596561 C 0.97 0.6110 1 14547612 rs596561 C 0.97 0.6110 1 14547612 rs596561 C 0.97 0.6110 1 145477612 rs10494257 A 0.98 0.6551 1 1455287233 BCL9 rs11804045 A 1.03 0.5558 1 14528420 LOC391092[GJA8 rs4950574 A 1.03 0.6551 1 145628401 ACP6 rs4950574 A 1.03 0.6551 1 145628401 ACP6 rs4950574 A 1.03 0.6551 1 145628401 ACP6 rs495056 C 1.02 0.7095 1 14572113 GJA5 rs1496045 A 1.03 0.6551 1 145628401 ACP6 rs495056 C 1.02 0.7095 1 145705110 GJA5 rs1496045 A 1.03 0.8651 1 145628401 ACP6 rs495056 C 1.02 0.7095 1 145705110 GJA5 rs14942457 A 0.99 0.8603 1 14570816 rs10494257 A 0.99 0.8603 1 14552003 CHD1L rs1261877 C 0.99 0.8369 1 145730876 GJA5 rs1241387 A 1.01 0.7529 1 144970465 LOC440680 rs5530746 A 1.03 0.8049 1 14552003 CHD1L rs1261877 C 0.99 0.8369 1 145730876 GJA5 rs12404277 A 0.99 0.8607 1 145308060 rs9661159 A 0.99 0.8607 1 14530806 rs9661159 A 0.99 0.8607 1 1453080							
rs2999613 A 1.06 0.3586 1 146286966 rs10494246 A 1.10 0.3592 1 145159823 FMO5 rs2354432 A 0.05 0.3811 1 145159826 ACP6 rs1353431 C 0.94 0.3326 1 145764604 LOC391092 rs13590510 A 1.07 0.3975 1 1455764604 LOC391092 rs14590382 G 0.96 0.4064 1 145203172 CHD1L rs16494245 A 1.04 0.4300 1 1445648301 OR1322P rs584323 C 0.97 0.4348 1 145518117 BCL9 rs1572825 A 0.97 0.44671 145473966 BCL9 rs6664767 G 1.03 0.4681 1 14578067 LOC391092 rs1512525 A 0.97 0.5032 1 145128642 PRKAB2JFMO5 rs1015235 A 0.97 0.5032 1 145128642 PRKAB2JFMO5 rs1098627 C	rs627219	G	0.92	0.3068	1	145539979	BCL9
rs10494246 A 1.10 0.3592 1 145614928 ACP6 rs2354432 A 1.05 0.3811 1 14559853 FMO5 rs885239 A 0.95 0.3831 1 145594226 ACP6 rs13930510 A 1.07 0.3975 1 145674604 LOC391092 rs14905392 G 0.96 0.4064 1 145203172 CHD1L rs1494245 A 1.04 0.4300 1 144573388 LOC440677 rs4504949 A 1.06 0.4304 1 145518117 BCL9 rs584323 C 0.97 0.4367 1 145473986 BCL9 rs664767 G 1.03 0.4681 1 14570667 LOC391092 rs814653 A 0.96 0.4757 1 14520369 BCL9 rs894469 A 1.05 0.4853 1 145139530 FMO5 rs190867 C <t< td=""><td>rs10900403</td><td>G</td><td>0.95</td><td>0.3305</td><td>1</td><td>145807358</td><td></td></t<>	rs10900403	G	0.95	0.3305	1	145807358	
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rs1344A1.010.74391145585897ACP6rs12141387A1.010.75291144970465LOC440677rs11261254C0.980.76311146185099rs10494243C1.030.77231145146427FMO5rs6593746A1.030.80491145153273FMO5rs2932454G1.010.83541146293282FLJ39739 RNU1P10rs12061877C0.990.83691145730876GJA5rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145220003CHD1Lrs6693109A1.010.86861145287960rs1240009A0.990.86971145224547CHD1Lrs1001193C1.010.87841145633001rs1857208A1.010.90701144989346LOC440677							
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rs11261254C0.980.76311146185099rs10494243C1.030.77231145146427FMO5rs6593746A1.030.80491145153273FMO5rs2932454G1.010.83541146293282FLJ39739 RNU1P10rs12061877C0.990.83691145730876GJA5rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145287960CHD1Lrs6693109A1.010.86861145287960rs12061159A0.990.8740114524547CHD1Lrs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677							
rs10494243C1.030.77231145146427FMO5rs6593746A1.030.80491145153273FMO5rs2932454G1.010.83541146293282FLJ39739 RNU1P10rs12061877C0.990.83691145730876GJA5rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.869711452308966rs9661159A0.990.8740114524547rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677							LOC440677
rs6593746A1.030.80491145153273FMO5rs2932454G1.010.83541146293282FLJ39739 RNU1P10rs12061877C0.990.83691145730876GJA5rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.8697114524547CHD1Lrs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677	rs11261254		0.98	0.7631	1	146185099	
rs2932454G1.010.83541146293282FLJ39739 RNU1P10rs12061877C0.990.83691145730876GJA5rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.869711452308966rs9661159A0.990.87401145233001rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677	rs10494243	С	1.03	0.7723	1	145146427	FMO5
rs2932454G1.010.83541146293282FLJ39739 RNU1P10rs12061877C0.990.83691145730876GJA5rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.869711452308966rs9661159A0.990.87401145233001rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677	rs6593746	А	1.03	0.8049	1	145153273	FMO5
rs12061877C0.990.83691145730876GJA5rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.86971145308966rs9661159A0.990.87401145224547rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677					1		
rs1763457C0.990.84551146262302LOC440680rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.86971145308966rs9661159A0.990.87401145224547rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677					1		•
rs7530962A1.010.85231145614797ACP6rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.86971145308966rs9661159A0.990.87401145224547rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677							
rs2452A0.990.86091145220003CHD1Lrs6693109A1.010.86861145287960rs11240009A0.990.86971145308966rs9661159A0.990.87401145224547rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677							
rs6693109A1.010.86861145287960rs11240009A0.990.86971145308966rs9661159A0.990.87401145224547rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677					-		
rs11240009A0.990.86971145308966rs9661159A0.990.87401145224547CHD1Lrs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677					-		CHDIE
rs9661159A0.990.87401145224547CHD1Lrs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677							
rs1001193C1.010.87841145633001rs1857208A1.010.90701145758611rs671205C1.000.94791144989346LOC440677							
rs1857208 A 1.01 0.9070 1 145758611 rs671205 C 1.00 0.9479 1 144989346 LOC440677							CHD1L
rs671205 C 1.00 0.9479 1 144989346 LOC440677							
rs2000072 A 1.00 0.9581 1 145437192		С			1	144989346	LOC440677
	rs2000072	А	1.00	0.9581	1	145437192	

Significant association with SNP alleles was not found with schizophrenia after Bonferroni correction. Data from 2,687 cases and 13,484 controls were used in the association analysis. Locations are based on Build 36 of the human genome.

Supplementary Table 8. Allelic association results for markers on the Illumina HumanHap300 within the 15q11.2 deletion.

Marker Allele	A	OR	P-value	chr	Location (bp)	Gene
	0	OIX	i valuo	on		
				. –		
rs8029320	A	1.17	0.0008	15	20437666	CYFIP1
rs1897786	A	1.15	0.0061	15	20545323	CYFIP1
rs999842	С	0.91	0.0163	15	20551713	CYFIP1 NIPA2
rs4778413	С	1.09	0.0507	15	20560833	NIPA2 CYFIP1
rs6606817	С	1.08	0.0647	15	20567999	NIPA2
rs4778370	С	0.91	0.0764	15	20578289	NIPA2
rs8034210	С	0.93	0.0810	15	20347960	
rs12911925	С	1.10	0.0917	15	20568493	NIPA2
rs4778334	А	0.93	0.1100	15	20592297	
rs7168000	G	1.08	0.1283	15	20564567	CYFIP1 NIPA2
rs7170838	С	0.93	0.1334	15	20572679	NIPA2
rs4778464	А	0.93	0.1518	15	20537129	CYFIP1
rs2289819	С	0.93	0.1522	15	20512379	CYFIP1
rs4778575	Т	0.95	0.2031	15	20605280	NIPA2 NIPA1
rs1009153	С	0.95	0.2039	15	20528352	CYFIP1
rs4293342	С	1.05	0.2069	15	20455753	CYFIP1
rs1991922	С	0.92	0.2168	15	20610835	NIPA1
rs12594495	А	1.05	0.2193	15	20499445	CYFIP1
rs7181789	А	0.96	0.2454	15	20595337	NIPA2 NIPA1
rs12441373	А	1.13	0.2619	15	20541359	CYFIP1
rs2289824	С	0.94	0.2680	15	20477670	CYFIP1
rs2028794	А	0.96	0.2818	15	20470856	CYFIP1
rs2278458	А	0.90	0.3075	15	20551298	CYFIP1 NIPA2
rs8031642	С	1.04	0.3118	15	20351272	LOC390544
rs3693	А	1.04	0.3290	15	20556334	CYFIP1 NIPA2
rs2289815	G	0.96	0.3483	15	20421301	TUBGCP5
rs4778470	Č	0.96	0.3797	15	20523005	CYFIP1
rs7167658	Č	1.04	0.4210	15	20460862	CYFIP1
rs1347314	Č	0.94	0.4450	15	20585443	NIPA2 NIPA1
rs7168367	č	1.04	0.4805	15	20618177	NIPA1
rs5006363	Ă	0.95	0.4848	15	20398953	TUBGCP5
rs722410	A	1.03	0.4896	15	20475538	CYFIP1
rs765763	c	0.97	0.5022	15	20428330	TUBGCP5 CYFIP1
rs6606825	Ă	1.04	0.5038	15	20614243	NIPA1
rs4932679	C	1.03	0.5296	15	20322108	LOC390544
rs2289823	Ă	0.97	0.5390	15	20479393	CYFIP1
rs956120	ĉ	1.02	0.5545	15	20489279	CYFIP1
rs4592619	č	0.97	0.5620	15	20585244	NIPA2 NIPA1
rs8040193	c	1.05	0.6146	15	20306549	LOC390544
rs7182576	G	0.98	0.6284	15	20546036	CYFIP1
rs1579821	c	1.02	0.6338	15	20501269	CYFIP1
rs3812924	A	1.02	0.6381	15	20599983	NIPA2 NIPA1
rs3751566	ĉ	0.98	0.6918	15	20399903	CYFIP1
rs2304341	C	0.98	0.7614	15		CYFIP1
rs722411		1.01	0.7614		20542471 20475585	CYFIP1
rs7174982	A C	1.01		15 15		
			0.8269	15	20517099	CYFIP1
rs7168653	C	0.99	0.8308	15	20516088	CYFIP1
rs3883043	A	1.01	0.8321	15	20777695	LOC339005
rs11636068	А	0.99	0.8639	15	20629449	NIPA1 LOC400320

rs8043036	А	1.00	0.9396	15	20434983	CYFIP1
rs1544285	Α	1.00	0.9665	15	20405438	TUBGCP5
rs4778298	А	1.00	0.9740	15	20505022	CYFIP1
rs11263687	G	1.00	0.9838	15	20635884	LOC400320 NIPA1
rs2289816	G	1.00	0.9906	15	20506454	CYFIP1

Significant association with SNP alleles was not found with schizophrenia after Bonferroni correction. Data from 2,687 cases and 13,484 controls were used in the association analysis. Locations are based on Build 36 of the human genome.

Supplementary Table 9. Allelic association results for markers on the Illumina HumanHap300 within the 15q13.3 deletion.

rs1463408 A 0.88 0.0055 15 29243936 rs12915265 C 0.89 0.0089 15 30196358 CHRNA7 rs038864 C 0.83 0.0095 15 30072156 rs1433842 A 0.91 0.0174 15 29195896 TRPM1 rs1223889 A 0.92 0.0243 15 29258764 TRPM1 rs14637992 A 0.91 0.0459 15 29245430 TRPM1 rs16152238 A 1.15 0.0377 15 300276710 TS rs14779844 A 0.92 0.0530 15 29271979 TS TS rs4779536 A 1.08 0.0539 15 29274400 C15orf16 C15orf16 rs2651418 A 0.93 0.0642 15 29274826 CHRNA7 rs998876 A 0.93 0.0642 15 2927466 TRPM1 rs1978801 A 0.94 0.0803 15 2924786 LOC283710 rs6493543	Marker	Allele	OR	P-value	chr	Location (bp)	Gene
rs8038654 C 0.83 0.0095 15 30072156 rs10438342 A 0.91 0.0169 15 3018938 rs4779824 C 0.91 0.0174 15 29191586 TRPM1 rs1223489 A 0.92 0.0243 15 29258764 TRPM1 rs14779944 A 0.92 0.0301 15 29155896 TRPM1 rs1863279 A 0.91 0.0459 15 29245430 TS rs47799536 A 1.08 0.0520 15 3026573 CHRNA7 rs99876 A 0.93 0.0642 15 30226573 CHRNA7 rs99876 A 0.93 0.0642 15 29124806 TRPM1 rs1035706 A 1.00 0.0795 15 29130377 TRPM1 rs1978801 A 0.94 0.0893 15 2924428 LOC283710 rs6439368 A 0.94 0.1139 <t< td=""><td>rs1463408</td><td>B A</td><td>0.88</td><td>0.0055</td><td>15</td><td>29243936</td><td></td></t<>	rs1463408	B A	0.88	0.0055	15	29243936	
rs1038342 A 0.91 0.0169 15 30189338 rs4779824 C 0.91 0.0174 15 29191586 TRPM1 rs1223889 A 0.92 0.0243 15 29258764 TRPM1 rs1647992 A 0.92 0.0301 15 29258764 TRPM1 rs1647992 A 0.91 0.0459 15 29228764 TRPM1 rs1647992 A 0.89 0.0520 15 30302218 TRPM1 rs1853279 A 1.08 0.0530 15 2927450 C15orf16 rs2651418 A 0.93 0.0642 15 30226573 CHRNA7 rs99876 A 0.93 0.0759 15 29128656 TRPM1 rs1035706 A 1.10 0.0755 15 29130377 TRPM1 rs193901 A 0.94 0.0801 15 2924282 LOC283710 rs804531 A 1.16 0.0971 15 29128656 TRPM1 rs804534 C 0	rs1291526	5 C	0.89	0.0089	15	30196358	CHRNA7
rs4779824 C 0.91 0.0174 15 29191586 TRPM1 rs1223889 A 0.92 0.0243 15 29258764 rs2241494 A 0.92 0.0301 15 29155996 TRPM1 rs10152238 A 1.15 0.0377 15 30057610 TRPM1 rs1647992 A 0.91 0.0459 15 29282405 TRPM1 rs183279 A 1.08 0.0530 15 29271979 TrepM1 rs2651418 A 0.93 0.0642 15 30265673 CHRNA7 rs999876 A 0.93 0.0642 15 29272626 TRPM1 rs1035706 A 1.00 0.0795 15 29130377 TRPM1 rs1939801 A 0.94 0.0880 15 2924328 LOC283710 rs6493543 G 0.94 0.0162 15 29215548 rs6493688 A 0.94 0.1130	rs8038654	C	0.83	0.0095	15	30072156	
rs1223889 A 0.92 0.0201 15 29258764 rs2241494 A 0.92 0.0301 15 29155896 TRPM1 rs10152238 A 0.15 0.0377 15 30057610 rs477994 A 0.89 0.0520 15 30302218 rs4779534 A 0.89 0.0530 15 29271979 rs4779536 A 1.08 0.0598 15 29271979 rs4779536 A 0.93 0.0642 15 30226573 CHRNA7 rs99876 A 0.93 0.0642 15 29128666 TRPM1 rs1035706 A 1.10 0.0759 15 29130377 TRPM1 rs1937801 A 0.94 0.0880 15 2924328 LOC283710 rs8042511 A 1.60 0.971 15 29212634 LOC243710 rs8043688 A 0.94 0.1062 15 2924328 LOC243710 rs1672407 C 1.06 0.1178 15 2927096	rs1043834	2 A	0.91	0.0169	15	30189338	
rs2241494 A 0.92 0.0307 15 2915586 TRPM1 rs10152238 A 1.15 0.0377 15 30057610 rs1647992 A 0.91 0.0459 15 29245430 rs1863279 A 1.08 0.0530 15 29271979 rs477536 A 0.93 0.0542 15 3022573 CHRNA7 rs2851418 A 0.93 0.0642 15 30226573 CHRNA7 rs999876 A 0.93 0.0642 15 2927626 TRPM1 rs1035706 A 1.10 0.0795 15 29128656 TRPM1 rs1035706 A 1.07 0.0893 15 2924328 LOC283710 rs8193001 A 0.94 0.0803 15 2924430 TRPM1 rs6439368 A 0.94 0.1062 15 29215548 rs643688 A 0.94 0.1062 15 2927096 rs1672407 C 1.06 0.1178 15 29228600 rs1672407 <t< td=""><td>rs4779824</td><td>C</td><td>0.91</td><td>0.0174</td><td>15</td><td>29191586</td><td>TRPM1</td></t<>	rs4779824	C	0.91	0.0174	15	29191586	TRPM1
rs10152238 A 1.15 0.0377 15 30057610 rs16479924 A 0.89 0.0520 15 3302218 rs1863279 A 1.08 0.0539 15 29282405 rs1477534 A 0.93 0.0539 15 29282405 rs4779536 A 1.08 0.0598 15 29272626 rs7173280 C 0.93 0.0642 15 29272626 rs7173280 C 0.33 0.0642 15 29130377 TRPM1 rs1035706 A 1.00 0.0759 15 29130377 TRPM1 rs139801 A 0.94 0.0880 15 2924328 LOC283710 rs8043543 G 0.94 0.0923 15 2914430 TRPM1 rs6439368 A 0.94 0.1062 15 29215548 LOC283710 rs803534 C 0.94 0.1178 15 292795287 rs7162249 rs1672407 C 1.06 0.1344 15 29227096 rs1672407 <td>rs1223889</td> <td>A (</td> <td>0.92</td> <td>0.0243</td> <td>15</td> <td>29258764</td> <td></td>	rs1223889	A (0.92	0.0243	15	29258764	
rs1647992 A 0.91 0.0459 15 29245430 rs4779984 A 0.89 0.0520 15 30302218 rs1863279 A 1.08 0.0530 15 29271979 rs4779536 A 1.08 0.0598 15 29271979 rs4779536 A 0.03 0.0642 15 30226573 CHRNA7 rs999876 A 0.93 0.0642 15 29272626 TRPM1 rs1035706 A 1.10 0.0795 15 29130377 TRPM1 rs193901 A 0.94 0.0893 15 2914430 TRPM1 rs6493543 G 0.94 0.0923 15 29324788 LOC283710 rs804354 C 0.94 0.1062 15 29215548 rs6493688 A 0.94 0.1139 15 2945548 rs6493688 A 0.94 0.1139 15 29221548 S S S S <td>rs2241494</td> <td>A</td> <td>0.92</td> <td>0.0301</td> <td>15</td> <td>29155896</td> <td>TRPM1</td>	rs2241494	A	0.92	0.0301	15	29155896	TRPM1
rs4779984 A 0.89 0.0520 15 30302218 rs1863279 A 1.08 0.0530 15 29282405 rs1477534 A 0.93 0.0642 15 3026573 CHRNA7 rs499876 A 0.93 0.0642 15 30226573 CHRNA7 rs999876 A 0.93 0.0759 15 29128656 TRPM1 rs1035706 A 1.10 0.0795 15 29130377 TRPM1 rs999876 A 0.94 0.0880 15 2924328 LOC283710 rs917801 A 1.07 0.0883 15 29144430 TRPM1 rs6493543 G 0.94 0.1062 15 2922034 LOC283710 rs8042511 A 1.16 0.971 15 2922034 LOC400347 C150rf16 rs4779937 C 1.06 0.1134 15 29975287 rs7162289 C 1.08 0.1310 15 29265	rs1015223	8 A	1.15	0.0377	15	30057610	
rs1863279 A 1.08 0.0530 15 29282405 rs1477534 A 0.93 0.0539 15 29271979 rs4779536 A 1.08 0.0598 15 29574400 C15orf16 rs2651418 A 0.93 0.0642 15 2927626 CHRNA7 rs999876 A 0.93 0.0759 15 29128656 TRPM1 rs173280 C 0.93 0.0759 15 29128656 TRPM1 rs1978801 A 0.94 0.0880 15 2924328 LOC283710 rs6493543 G 0.94 0.0923 15 29215548 CC283710 rs6493688 A 0.94 0.1062 15 29215548 C rs7162289 C 1.06 0.1178 15 29560167 LOC400347 C15orf16 rs479937 C 1.06 0.1344 15 29227096 rs1672407 rs1672407 C 1.06 0.1446 15 29228060 rs751614 rs1647385 A 0	rs1647992	2 A	0.91	0.0459	15	29245430	
rs1477534 A 0.93 0.0539 15 29271979 rs4779536 A 1.08 0.0539 15 29574400 C15orf16 rs2651418 A 0.93 0.0642 15 30226573 CHRNA7 rs999876 A 0.93 0.0759 15 29123666 TRPM1 rs1035706 A 1.10 0.0795 15 29130377 TRPM1 rs1978801 A 0.94 0.0880 15 2924328 LOC283710 rs6493543 G 0.94 0.0923 15 2922438 LOC283710 rs8042511 A 1.16 0.0971 15 29222034 rs803354 C 0.94 0.1062 15 2921478 LOC283710 rs849368 A 0.94 0.1052 15 29215646 rs7162289 LOC400347 C15orf16 rs74779937 C 1.06 0.1344 15 29227096 rs1672409 A 0.95 0.1446 15 29223667 rs1672409 A 0.95 0.1446 15	rs4779984	A	0.89	0.0520	15	30302218	
rs4779536 A 1.08 0.0598 15 29574400 C15orf16 rs2651418 A 0.93 0.0642 15 30226573 CHRNA7 rs999876 A 0.93 0.0759 15 29128656 TRPM1 rs1035706 A 1.10 0.0795 15 29130377 TRPM1 rs1978801 A 0.94 0.0893 15 2924284 LOC283710 rs919001 A 1.07 0.0893 15 29324788 LOC283710 rs803534 G 0.94 0.0923 15 293215548 rs8043534 G 0.94 0.1062 15 29215548 rs8439868 A 0.94 0.1139 15 29560167 LOC400347 C15orf16 rs7162289 C 1.06 0.1344 15 29227096 15 15 29408613 KLF13 rs1672407 C 1.06 0.1344 15 2922800 15 15 16 </td <td>rs1863279</td> <td>) A</td> <td>1.08</td> <td>0.0530</td> <td>15</td> <td>29282405</td> <td></td>	rs1863279) A	1.08	0.0530	15	29282405	
rs2651418 A 0.93 0.0642 15 30226573 CHRNA7 rs999876 A 0.93 0.0759 15 2912865 TRPM1 rs1035706 A 1.10 0.0795 15 29130377 TRPM1 rs1978801 A 0.94 0.0880 15 2924328 LOC283710 rs919001 A 1.07 0.0893 15 29144430 TRPM1 rs6493543 G 0.94 0.0923 15 2922034 LOC283710 rs8032541 A 1.16 0.0971 15 2922034 LOC400347]C15orf16 rs803534 C 0.94 0.1662 15 2922034 LOC400347]C15orf16 rs4779937 C 1.06 0.1178 15 29975287 rs7162289 LOC400347]C15orf16 rs1742407 C 1.06 0.1344 15 29227096 rs71672407 C 1.06 0.1344 15 29228600 rs1614254 A 0.94 0.1456 15 2999826 rs1614254 A 0.94 0.1456	rs1477534	A	0.93	0.0539	15	29271979	
rs999876 A 0.93 0.0642 15 29272626 rs7173280 C 0.93 0.0759 15 29128656 TRPM1 rs1978801 A 0.94 0.0880 15 29128056 TRPM1 rs1978801 A 0.94 0.0893 15 29144430 TRPM1 rs6493543 G 0.94 0.0923 15 2924788 LOC283710 rs8042511 A 1.16 0.971 15 29227034 TRPM1 rs803534 C 0.94 0.1062 15 29215548 LOC400347]C15orf16 rs477937 C 1.06 0.1178 15 29373158 TS rs16242471 C 1.06 0.1344 15 29227096 TS rs1672407 C 1.06 0.1344 15 29228600 TS rs1001555 A 1.12 0.1450 15 2908826 TS rs1465778 C 1.06 <t< td=""><td>rs4779536</td><td>6 A</td><td>1.08</td><td>0.0598</td><td>15</td><td>29574400</td><td>C15orf16</td></t<>	rs4779536	6 A	1.08	0.0598	15	29574400	C15orf16
rs7173280 C 0.93 0.0759 15 29128656 TRPM1 rs1035706 A 1.10 0.0795 15 29130377 TRPM1 rs1978801 A 0.94 0.0880 15 2924328 LOC283710 rs919001 A 1.07 0.0893 15 29144430 TRPM1 rs6493543 G 0.94 0.0923 15 2922034 LOC283710 rs803534 C 0.94 0.1062 15 29221034 TRPM1 rs80493688 A 0.94 0.1139 15 29215548 LOC400347]C15orf16 rs4779937 C 1.06 0.1178 15 29227096 rs1672407 C 1.06 0.1344 15 29228600 rs1514254 A 0.94 0.1456 15 29998226 rs1514254 A 0.94 0.1456 15 2923062 rs3784595 A 1.07 0.2226 15 29307182 KLF13 rs36493540 A 1.05 0.2115 15 29129507 TRPM1 rs465779C	rs2651418	8 A	0.93	0.0642	15	30226573	CHRNA7
rs1035706 A 1.10 0.0795 15 29130377 TRPM1 rs1978801 A 0.94 0.0880 15 29294328 LOC283710 rs919001 A 1.07 0.0893 15 29144430 TRPM1 rs6493543 G 0.94 0.0921 15 2922034 TRPM1 rs6493688 A 0.94 0.1062 15 2922034 LOC2400347 C15orf16 rs776937 C 1.06 0.1178 15 29975287 Trs7162289 C 1.08 0.1310 15 2927096 rs1672407 C 1.06 0.1344 15 29227096 TRPM1 TS7162289 C 1.06 0.1344 15 29226678 TS7162249 A 0.95 0.1446 15 29228600 TS1001555 A 1.12 0.1452 15 30060958 TS154254 A 0.94 0.1456 15 2932182 LOC283710 TRPM1 TS484374 A 0.94 0.1466 15 2932182 LOC283710 TS1465778 C 1.06	rs999876		0.93	0.0642	15	29272626	
rs1978801 A 0.94 0.0880 15 29294328 LOC283710 rs919001 A 1.07 0.0893 15 29144430 TRPM1 rs6493543 G 0.94 0.0923 15 29324788 LOC283710 rs8042511 A 1.16 0.0971 15 29222034 rs803534 C 0.94 0.1062 15 29215548 rs6493688 A 0.94 0.1139 15 29373158 rs767289 C 1.06 0.1178 15 2927096 rs1672407 C 1.06 0.1344 15 2922800 rs1672407 C 1.06 0.1344 15 2922800 rs1001555 A 1.12 0.1452 15 30060958 rs1465778 C 1.06 0.1460 15 29232062 rs3784595 A 1.07 0.2043 15 29323182 LOC283710 rs468736 C 1.07 0.2226 15 29303300 LOC283710 rs46873	rs7173280) C	0.93	0.0759	15	29128656	TRPM1
rs919001 A 1.07 0.0893 15 29144430 TRPM1 rs6493543 G 0.94 0.0923 15 29324788 LOC283710 rs8045511 A 1.16 0.0971 15 29222034 LOC283710 rs8045334 C 0.94 0.1062 15 29215548 LOC400347]C15orf16 rs6493688 A 0.94 0.1139 15 29560167 LOC400347]C15orf16 rs4779937 C 1.06 0.1310 15 2927096 rs7162289 C 1.08 0.1310 15 29228600 rs1242141 C 1.16 0.1345 15 29228600 rs1672409 A 0.95 0.1446 15 29988226 rs15142578 C 1.06 0.1460 15 29408613 KLF13 rs1580141 A 1.05 0.1981 15 2932182 LOC283710 rs1865779 C 1.07 0.2226 15 29303300 LOC283710 rs22478133	rs1035706	6 A	1.10	0.0795	15	29130377	TRPM1
rs6493543 G 0.94 0.0923 15 29324788 LOC283710 rs8042511 A 1.16 0.0971 15 2922034 rs803534 C 0.94 0.1062 15 29215548 rs6493688 A 0.94 0.1139 15 29560167 LOC400347 C15orf16 rs7162289 C 1.06 0.1178 15 29373158 rs1672407 C 1.06 0.1344 15 292266578 rs1672409 A 0.95 0.1446 15 29228600 rs1672409 A 0.95 0.1446 15 29228062 rs1672409 A 0.94 0.1452 15 30060958 rs165778 C 1.06 0.1460 15 29408613 KLF13 rs1865778 A 1.07 0.2043 15 2932182 LOC283710 rs146579 C <	rs1978801	А	0.94	0.0880	15	29294328	LOC283710
rs8042511 A 1.16 0.0971 15 29222034 rs803534 C 0.94 0.1062 15 29215548 rs6493688 A 0.94 0.1139 15 29560167 LOC400347 C15orf16 rs4779937 C 1.06 0.1178 15 29975287 rs7162289 C 1.08 0.1310 15 29373158 rs1672407 C 1.06 0.1344 15 29227096 rs1672409 A 0.95 0.1446 15 29228600 rs101555 A 1.12 0.1452 15 30060958 rs154242141 C 1.06 0.1446 15 29228600 rs101555 A 1.07 0.1456 15 29998226 rs1465778 C 1.06 0.1460 15 29408613 KLF13 rs6493540 A 1.05 0.2115 15 2932782 LOC283710 rs1465779 C 1.07	rs919001	А	1.07	0.0893	15	29144430	TRPM1
rs803534 C 0.94 0.1062 15 29215548 rs6493688 A 0.94 0.1139 15 29560167 LOC400347 C15orf16 rs7162289 C 1.06 0.1178 15 29373158 rs1672407 C 1.06 0.1344 15 29227096 rs1672407 C 1.16 0.1345 15 29228600 rs1672409 A 0.95 0.1446 15 29228600 rs1672409 A 0.95 0.1446 15 29228600 rs1672408 C 1.06 0.1452 15 30060958 rs1514254 A 0.94 0.1456 15 29232062 rs3784595 A 1.07 0.2043 15 29129507 TRPM1 rs6493540 A 1.05 0.2115 15 29337182 KLF13 rs1865873 C 1.06 0.2226 15 2930300 LOC283710 rs2278133 A 1.05 0.2270 15 29460239 KLF13 LOC440262	rs6493543	G G	0.94	0.0923	15	29324788	LOC283710
rs6493688 A 0.94 0.1139 15 29560167 LOC400347 C15orf16 rs4779937 C 1.06 0.1178 15 29975287 rs7162289 C 1.08 0.1310 15 29373158 rs1672407 C 1.06 0.1344 15 29227096 rs12442141 C 1.16 0.1345 15 29228600 rs1672409 A 0.95 0.1446 15 29228600 rs1672409 A 0.94 0.1456 15 29940813 KLF13 rs1672409 A 0.94 0.1456 15 29408613 KLF13 rs1672407 C 1.06 0.1460 15 29408613 KLF13 rs1680141 A 1.05 0.2115 15 29321882 LOC283710 rs1465779 C 1.07 0.2226 15 29303300 LOC283710 rs2728133 A 1.05 0.2270 15 29460239 <t< td=""><td>rs8042511</td><td>А</td><td>1.16</td><td>0.0971</td><td>15</td><td>29222034</td><td></td></t<>	rs8042511	А	1.16	0.0971	15	29222034	
rs4779937 C 1.06 0.1178 15 29975287 rs7162289 C 1.08 0.1310 15 29373158 rs1672407 C 1.06 0.1344 15 29227096 rs12442141 C 1.16 0.1345 15 29228600 rs1672409 A 0.95 0.1446 15 29228600 rs1001555 A 1.12 0.1452 15 30060958 rs1514254 A 0.94 0.1456 15 29998226 rs1465778 C 1.06 0.1460 15 29129507 TRPM1 rs1580141 A 1.05 0.2043 15 2932710 rs1546577 rs1678 C 1.06 0.2115 15 2932710 rs16577 rs1465779 C 1.07 0.2226 15 29303300 LOC283710 rs2278133 A 1.05 0.2270 15 29406239 KLF13 rs8034505 A 1.05 0.2295 15 29140680 TRPM1 <t< td=""><td>rs803534</td><td>С</td><td>0.94</td><td>0.1062</td><td>15</td><td>29215548</td><td></td></t<>	rs803534	С	0.94	0.1062	15	29215548	
rs7162289 C 1.08 0.1310 15 29373158 rs1672407 C 1.06 0.1344 15 29227096 rs1672409 A 0.95 0.1446 15 29228600 rs1672409 A 0.95 0.1446 15 29228600 rs1001555 A 1.12 0.1452 15 30060958 rs1514254 A 0.94 0.1456 15 29998226 rs1465778 C 1.06 0.1460 15 29408613 KLF13 rs1580141 A 1.05 0.1981 15 29232062 rs3784595 A 1.07 0.2043 15 29129507 TRPM1 rs6493540 A 1.05 0.2115 15 29321882 LOC283710 rs1465779 C 1.07 0.2226 15 29303300 LOC283710 rs2278133 A 1.05 0.2270 15 29460239 KLF13]LOC440262 rs2035668 A 0.94 0.2296 15 30178638 CHRNA7	rs6493688		0.94	0.1139	15	29560167	LOC400347 C15orf16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	rs4779937		1.06	0.1178	15	29975287	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	rs7162289		1.08	0.1310	15	29373158	
rs1672409A0.950.14461529228600rs1001555A1.120.14521530060958rs1514254A0.940.1456152998226rs1465778C1.060.14601529408613KLF13rs1580141A1.050.19811529232062rs3784595A1.070.20431529129507TRPM1rs6493540A1.050.21151529321882LOC283710rs1465779C1.070.22261529303300LOC283710rs1265873C1.050.22161529140680TRPM1rs8034505A1.050.22701529460239KLF13]LOC440262rs2278133A1.050.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529344873rs4417522rs1417522C1.040.27351529974412rs7179733rs41459200A1.040.29911529594877C15orf16rs2288242A1.050.30621529117572TRPM1rs238834C1.040.3097152915017TRPM1rs800158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs1672407		1.06	0.1344	15	29227096	
rs1001555A1.120.14521530060958rs1514254A0.940.14561529998226rs1465778C1.060.14601529408613KLF13rs1580141A1.050.19811529232062rs3784595A1.070.20431529129507TRPM1rs6493540A1.050.21151529321882LOC283710rs1465779C1.070.22261529303300LOC283710rs1865873C1.050.22261529406239KLF13rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.245915299744127rs1459200A1.040.29911529594877C15orf16rs2338834C1.040.30691529125017TRPM1rs2338834C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs1244214	1 C	1.16	0.1345	15	29266578	
rs1514254A0.940.14561529998226rs1465778C1.060.14601529408613KLF13rs1580141A1.050.19811529232062rs3784595A1.070.20431529129507TRPM1rs6493540A1.050.21151529321882LOC283710rs1465779C1.070.22261529303300LOC283710rs1865873C1.050.22261529303300LOC283710rs2278133A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529974412rs7179733Crs7179733C0.960.28141530160985CHRNA7rs2338834C1.040.30691529125017TRPM1rs800158C1.040.30971529157929TRPM1rs800158C1.040.30971529157929TRPM1rs2338834C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs1672409) A	0.95	0.1446	15	29228600	
rs1465778C1.060.14601529408613KLF13rs1580141A1.050.19811529232062rs3784595A1.070.20431529129507TRPM1rs6493540A1.050.21151529321882LOC283710rs1465779C1.070.22261529303300LOC283710rs278133A1.050.22381529140680TRPM1rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529344873rs417522C1.040.27351529974412rs7179733C0.960.28141530160985CHRNA7rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30971529157929TRPM1rs800158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C150rf16	rs1001555	6 A	1.12	0.1452	15	30060958	
rs1580141A1.050.19811529232062rs3784595A1.070.20431529129507TRPM1rs6493540A1.050.21151529321882LOC283710rs1465779C1.070.22261529397182KLF13rs1865873C1.050.22261529303300LOC283710rs2278133A1.050.22381529140680TRPM1rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529974412rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529594877C15orf16rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30971529157929TRPM1rs800158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs1514254		0.94	0.1456	15	29998226	
rs3784595A1.070.20431529129507TRPM1rs6493540A1.050.21151529321882LOC283710rs1465779C1.070.22261529397182KLF13rs1865873C1.050.22261529303300LOC283710rs278133A1.050.22381529140680TRPM1rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529344873rs417522C1.040.27351529974412rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529594877C15orf16rs233834C1.040.30691529125017TRPM1rs800158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs1465778	C C	1.06	0.1460	15	29408613	KLF13
rs6493540A1.050.21151529321882LOC283710rs1465779C1.070.22261529303300LOC283710rs1865873C1.050.22261529303300LOC283710rs2278133A1.050.22381529140680TRPM1rs8034505A1.050.22701529460239KLF13]LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529974412rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529117572TRPM1rs238834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs1580141	А	1.05	0.1981	15	29232062	
rs1465779C1.070.22261529397182KLF13rs1865873C1.050.22261529303300LOC283710rs2278133A1.050.22381529140680TRPM1rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529344873rs4417522C1.040.27351529974412rs7179733C0.960.28141530160985CHRNA7rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs3784595	6 A	1.07	0.2043	15	29129507	TRPM1
rs1865873C1.050.22261529303300LOC283710rs2278133A1.050.22381529140680TRPM1rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529974412rs7179733C0.960.28141530160985CHRNA7rs2288242A1.040.29911529594877C15orf16rs2338834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs6493540) A	1.05	0.2115	15	29321882	LOC283710
rs2278133A1.050.22381529140680TRPM1rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529344873							
rs8034505A1.050.22701529460239KLF13 LOC440262rs2241493C1.060.22951529149644TRPM1rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529344873rs4417522C1.040.27351529974412rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529594877C15orf16rs238834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs1865873	S C	1.05	0.2226	15	29303300	LOC283710
rs2241493 C 1.06 0.2295 15 29149644 TRPM1 rs8035668 A 0.94 0.2296 15 30178638 CHRNA7 rs2879262 C 0.95 0.2459 15 29344873 rs4417522 C 1.04 0.2735 15 29974412 rs7179733 C 0.96 0.2814 15 30160985 CHRNA7 rs1459200 A 1.04 0.2991 15 29594877 C15orf16 rs2288242 A 1.05 0.3062 15 29125017 TRPM1 rs2338834 C 1.04 0.3097 15 29157929 TRPM1 rs890158 C 1.04 0.3097 15 29157929 TRPM1 rs12900301 C 0.95 0.3122 15 29619936 C15orf16			1.05		15	29140680	TRPM1
rs8035668A0.940.22961530178638CHRNA7rs2879262C0.950.24591529344873rs4417522C1.040.27351529974412rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529594877C15orf16rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30971529157929TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs8034505			0.2270		29460239	
rs2879262C0.950.24591529344873rs417522C1.040.27351529974412rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529594877C15orf16rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30971529157929TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs2241493	S C				29149644	
rs4417522C1.040.27351529974412rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529594877C15orf16rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30991529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs8035668					30178638	CHRNA7
rs7179733C0.960.28141530160985CHRNA7rs1459200A1.040.29911529594877C15orf16rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16						29344873	
rs1459200A1.040.29911529594877C15orf16rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16	rs4417522					29974412	
rs2288242A1.050.30621529117572TRPM1rs2338834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16							
rs2338834C1.040.30691529125017TRPM1rs890158C1.040.30971529157929TRPM1rs12900301C0.950.31221529619936C15orf16							
rs890158 C 1.04 0.3097 15 29157929 TRPM1 rs12900301 C 0.95 0.3122 15 29619936 C15orf16							
rs12900301 C 0.95 0.3122 15 29619936 C15orf16							
rs1503004 A 1.06 0.3286 15 29827425							C15orf16
	rs1503004	A	1.06	0.3286	15	29827425	

rs3964705	С	0.96	0.3343	15	28822861	LOC440261
rs6494039	Č	1.07	0.3401	15	29979194	
rs12440180	C	1.04	0.3677	15	30072148	
rs1606659	Ă	0.96	0.3731	15	30119745	CHRNA7
rs4779939	C	0.95	0.3764	15	29985165	••••••
rs4779814	č	0.97	0.3814	15	29143717	TRPM1
rs7169523	Ă	0.96	0.3831	15	29250670	
rs2137856	Â	0.90	0.3882	15	30016646	
	C				29313681	LOC283710
rs7163696		0.96	0.3902	15		
rs11630449	C	0.96	0.3953	15	29402033	KLF13
rs7163763	A	0.94	0.3977	15	29609507	C15orf16
rs953326	С	1.03	0.4090	15	30004979	
rs3784601	С	0.96	0.4097	15	29180766	TRPM1
rs3096464	С	1.03	0.4122	15	29256215	
rs898212	G	1.03	0.4134	15	29579128	C15orf16
rs4779862	С	1.03	0.4200	15	29420453	KLF13
rs4779759	А	1.03	0.4212	15	28751864	
rs1456212	А	1.05	0.4215	15	29211346	
rs3743234	А	1.03	0.4329	15	29126965	TRPM1
rs1459198	А	1.03	0.4337	15	29649740	C15orf16
rs12901022	С	0.97	0.4341	15	29100035	TRPM1
rs11638348	А	1.03	0.4352	15	29714219	C15orf16
rs1524878	G	1.03	0.4370	15	28941992	
rs2125615	Ă	1.03	0.4493	15	29587441	C15orf16
rs2046362	C	0.97	0.4581	15	28723577	01001110
rs8041717	Ğ	1.03	0.4719	15	29063737	FLJ20313
rs4779816	Ă	0.97	0.4730	15	29156415	TRPM1
rs3865090	ĉ	1.06	0.4734	15	29319602	LOC283710
rs8026705	Ă	0.97	0.4835	15	29704566	C15orf16
rs16956362		1.07	0.4848	15	28986264	KIAA1018
	A					
rs12439925	С	1.03	0.4852	15	29386793	KLF13
rs971330	C	1.03	0.4885	15	29538956	LOC400347
rs7174744	А	0.97	0.4961	15	28971039	KIAA1018
40440000	•	4.00	0 4074	4.5	00045405	LOC388104
rs12442622	A	1.03	0.4971	15	30045195	
rs11071179	С	0.97	0.4975	15	29635750	C15orf16
rs7175258	A	1.04	0.5180	15	29484934	LOC440262
rs2337980	С	0.98	0.5194	15	30231488	CHRNA7
rs10519712	А	1.03	0.5230	15	29997162	
rs4779889	G	1.03	0.5245	15	29601495	C15orf16
rs7169662	А	0.98	0.5292	15	29438608	KLF13
rs11632955	С	0.98	0.5400	15	29336409	
rs9672615	А	1.03	0.5436	15	30298847	
rs8025698	С	1.02	0.5444	15	29186010	TRPM1
rs7175507	С	1.02	0.5606	15	30007740	
rs6493623	А	1.03	0.5622	15	29444540	KLF13
rs4779809	С	0.98	0.5771	15	29131323	TRPM1
rs12439621	С	1.05	0.5937	15	30096476	CHRNA7
rs12442954	A	0.98	0.5955	15	30029658	-
rs1060493	G	1.02	0.6020	15	29303762	LOC283710
rs7402321	č	1.02	0.6061	15	30207700	CHRNA7
rs16956762	Ă	0.98	0.6140	15	29539275	LOC400347
rs964925	ĉ	1.02	0.6145	15	29093271	TRPM1
rs2337233	c	0.98	0.6206	15	30094507	CHRNA7
rs7182946	G	0.98	0.6232	15	29182160	TRPM1
rs7178760	C	0.98	0.6232	15	29318665	LOC283710
rs17228178	c	0.97	0.6243	15	29318665	LUU2037 IU
	C	0.98				
rs6493352	C	1.02	0.6331	15	29021356	FLJ20313 KIAA1018

rs11070871	С	0.97	0.6503	15	29299944	LOC283710
rs11636101	А	0.98	0.6721	15	30061449	
rs1524876	С	0.98	0.6726	15	29050564	FLJ20313
rs4779948	С	0.98	0.6730	15	30046352	
rs8042404	А	0.98	0.6904	15	29467308	KLF13 LOC440262
rs2113945	С	0.98	0.6905	15	29111823	TRPM1
rs7174211	A	0.98	0.6930	15	29425288	KLF13
rs1474380	А	0.98	0.6997	15	29056527	FLJ20313
rs2338679	A	0.99	0.7029	15	29608133	C15orf16
rs13329490	A	1.02	0.7102	15	30195523	CHRNA7
rs4321165	A	0.98	0.7117	15	29863575	LOC440263
rs12323980	C	0.97	0.7147	15	29363969	200110200
rs4238558	Ă	0.99	0.7193	15	29933027	
rs11636160	Ċ	0.98	0.7239	15	29489142	LOC440262
rs4268714	Ă	0.99	0.7304	15	29462745	KLF13 LOC440262
rs965435	c	1.02	0.7400	15	30104501	CHRNA7
rs7167632	Ă	1.02	0.7425	15	29935438	of individu
rs4779520	ĉ	0.99	0.7456	15	29452735	KLF13
rs8028220	A	1.01	0.7450	15	29214684	REI 15
rs12441324	Â	1.01	0.7535	15	28830254	LOC440261
rs7182547	ĉ	1.01	0.7558	15	29084964	FLJ20313 TRPM1
rs9302175	c	0.99	0.7596	15	29530870	LOC400347
	G	0.99		15		LOC283710
rs2289126			0.7710		29308957	
rs798081	A	0.98	0.7775	15	28910527	LOC390561
rs2611605	С	0.99	0.7856	15	30228925	CHRNA7
rs11070619	C	1.02	0.7926	15	28896081	LOC390561
rs753636	A	0.98	0.7935	15	29478345	LOC440262
rs1514260	A	1.01	0.7981	15	30086242	
rs1567885	A	1.01	0.8297	15	30088094	
rs2063722	A	0.99	0.8311	15	30083665	
rs10519688	С	0.99	0.8362	15	29921270	
rs10519726	A	0.99	0.8404	15	29109167	TRPM1
rs12594231	С	0.99	0.8540	15	29963596	•· ··-
rs17816055	С	1.01	0.8543	15	29619386	C15orf16
rs4779527	С	1.01	0.8566	15	29523383	LOC440262
						LOC400347
rs1524877	С	0.99	0.8618	15	29058472	FLJ20313
rs2293314	А	0.99	0.8680	15	28997943	KIAA1018
rs1035707	С	1.01	0.8721	15	29172089	TRPM1
rs2081455	С	0.99	0.8741	15	29210624	
rs6493741	С	1.01	0.8747	15	29609127	C15orf16
rs11638086	Α	0.99	0.8765	15	28853522	LOC440261
						LOC390561
rs9672180	С	1.01	0.8818	15	30300468	
rs1088475	С	1.01	0.8880	15	28927992	LOC390561
rs2219507	А	1.01	0.8928	15	29646927	C15orf16
rs2873	А	1.00	0.9116	15	29018547	FLJ20313 KIAA1018
rs2339046	А	1.01	0.9146	15	29059962	FLJ20313
rs798104	С	1.01	0.9313	15	28894118	LOC390561
rs3784589	Α	0.99	0.9331	15	29082006	FLJ20313 TRPM1
rs8027035	С	1.01	0.9334	15	30149996	CHRNA7
rs1392808	G	1.00	0.9471	15	30198807	CHRNA7
rs4779556	С	1.00	0.9564	15	29960537	
rs4779910	С	1.00	0.9612	15	29734334	C15orf16
rs1075232	А	1.00	0.9619	15	29528508	LOC400347
rs1378847	С	1.00	0.9674	15	29234640	
rs12898600	А	1.00	0.9694	15	29816985	
rs6494223	С	1.00	0.9697	15	30183749	CHRNA7

rs1983459	А	1.00	0.9703	15	28996041	KIAA1018	
rs7178637	С	1.00	0.9774	15	29665644	C15orf16	
rs4779794	А	1.00	0.9844	15	28984856	KIAA1018	
rs905426	А	1.00	0.9955	15	29870041		

Significant association with SNP alleles was not found with schizophrenia after Bonferroni correction. Data from 2,687 cases and 13,484 controls were used in the association analysis. Locations are based on Build 36 of the human genome.

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