

gwascat: structuring and querying the NHGRI GWAS catalog

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Contents

1 Introduction

NHGRI maintains and routinely updates a database of selected genome-wide association studies. This document describes R/Bioconductor facilities for working with contents of this database.

1.1 Installation

The package can be installed using Bioconductor's *BiocManager* package, with the sequence

```
library(BiocManager)
BiocManager::install("gwascat")
```

1.2 Attachment and access to documentation

Once the package has been installed, use `library(gwascat)` to obtain interactive access to all the facilities. After executing this command, use `help(package="gwascat")` to obtain an overview. The current version of this vignette can always be accessed at www.bioconductor.org, or by suitably navigating the web pages generated with `help.start()`.

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1.3 Illustrations: computing

Available functions are:

```
> library(gwascat)
> objects("package:gwascat")

[1] "bindcadd_snv"      "chklocs"          "ebicat37"
[4] "ebicat37UCSC"      "ebicat38"          "ebicat_b37"
[7] "ebicat_b38"        "efo.obo.g"        "g17SM"
[10] "getRsids"          "getTraits"         "gg17N"
[13] "gw6.rs_17"         "gwastagger"        "gwcex2gviz"
[16] "gwdf_2014_09_08"   "gwrngs19"          "gwrngs38"
[19] "ldtagr"            "locon6"            "locs4trait"
[22] "low17"             "makeCurrentGwascat" "obo2graphNEL"
[25] "riskyAlleleCount"  "rules_6.0_1kg_17"  "si.hs.37"
[28] "si.hs.38"          "subsetByChromosome" "subsetByTraits"
[31] "topTraits"         "traitsManh"
```

The extended GRanges instance with all SNP-disease associations is obtained as follows, using the hg19 genome build (GRCh38/hg38-based ranges are also available as ebicat38).

```
> data(ebicat37)
```

To determine the most frequently occurring traits:

```
> topTraits(ebicat37)
```

Obesity-related traits	Height	IgG glycosylation
957	822	699
Type 2 diabetes	Rheumatoid arthritis	Crohn's disease
340	294	249
Schizophrenia	Blood metabolite levels	HDL cholesterol
248	245	220
Breast cancer		
199		

For a given trait, obtain a GRanges with all recorded associations; here only three associations are shown:

```
> subsetByTraits(ebicat37, tr="LDL cholesterol")[1:3]
```

gwasloc instance with 3 records and 36 attributes per record.

Extracted: 2016-01-18

Genome: GRCh37

Excerpt:

GRanges object with 3 ranges and 3 metadata columns:

	seqnames	ranges	strand		DISEASE/TRAIT	SNPS	P-VALUE
	<Rle>	<IRanges>	<Rle>		<character>	<character>	<numeric>
[1]	chr2	44072576	*		LDL cholesterol	rs4299376	4e-72
[2]	chr1	150958836	*		LDL cholesterol	rs267733	5e-09
[3]	chr2	21263900	*		LDL cholesterol	rs1367117	1e-182

seqinfo: 23 sequences from GRCh37 genome

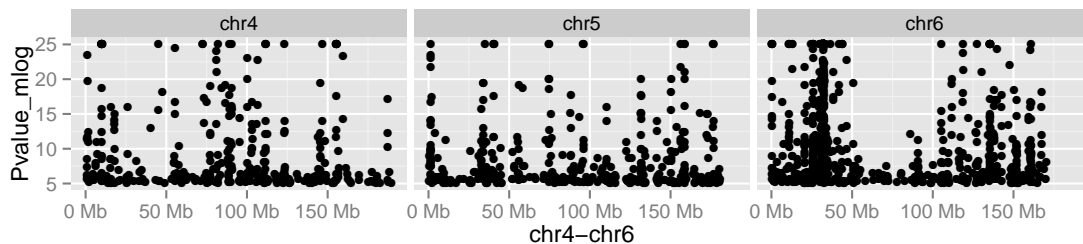
2 Some visualizations

2.1 Basic Manhattan plot

A basic Manhattan plot is easily constructed with the ggbio package facilities. Here we confine attention to chromosomes 4:6. First, we create a version of the catalog with $-\log_{10}p$ truncated at a maximum value of 25.

```
> gwtrunc = ebicat37
> requireNamespace("S4Vectors")
> mcols = S4Vectors::mcols
> mlpv = mcols(ebicat37)$PVALUE_MLOG
> mlpv = ifelse(mlpv > 25, 25, mlpv)
> S4Vectors::mcols(gwtrunc)$PVALUE_MLOG = mlpv
> library(GenomeInfoDb)
> seqlevelsStyle(gwtrunc) = "UCSC"
> gwlit = gwtrunc[ which(as.character(seqnames(gwtrunc)) %in% c("chr4", "chr5", "chr6")) ]
> library(ggbio)
> mlpv = mcols(gwlit)$PVALUE_MLOG
> mlpv = ifelse(mlpv > 25, 25, mlpv)
> S4Vectors::mcols(gwlit)$PVALUE_MLOG = mlpv

> methods:::bind_activation(FALSE)
> autoplot(gwlit, geom="point", aes(y=PVALUE_MLOG), xlab="chr4-chr6")
```



2.2 Annotated Manhattan plot

A simple call permits visualization of GWAS results for a small number of traits. Note the defaults in this call.

July 2018: The following is unevaluated owing to ggbio.

```
> args(traitsManh)

function (gwr, selr = GRanges(seqnames = "chr17", IRanges(3e+07,
  5e+07)), traits = c("Asthma", "Parkinson's disease", "Height",
  "Crohn's disease"), truncmlp = 25, ...)
NULL

> traitsManh(gwtrunc)
```

2.3 Integrative view of potential genetic determinants

The following chunk uses GFF3 data on eQTL and related phenomena distributed at the GBrowse instance at eqtl.uchicago.edu. A request for all information at 43-45 Mb was made on 2 June 2012, yielding the GFF3 referenced below. Of interest are locations and scores of genetic associations with DNaseI hypersensitivity (scores identifying dsQTL, see Degner et al 2012).

```
> gffpath = system.file("gff3/chr17_43000000_45000000.gff3", package="gwascat")
> library(rtracklayer)
> c17tg = import(gffpath)
```

We make a Gviz DataTrack of the dsQTL scores.

```
> c17td = c17tg[ which(S4Vectors::mcols(c17tg)$type == "Degner_dsQTL") ]
> library(Gviz)
> dsqs = DataTrack( c17td, chrom="chr17", genome="hg19", data="score",
+   name="dsQTL")
```

We start the construction of the graph here.

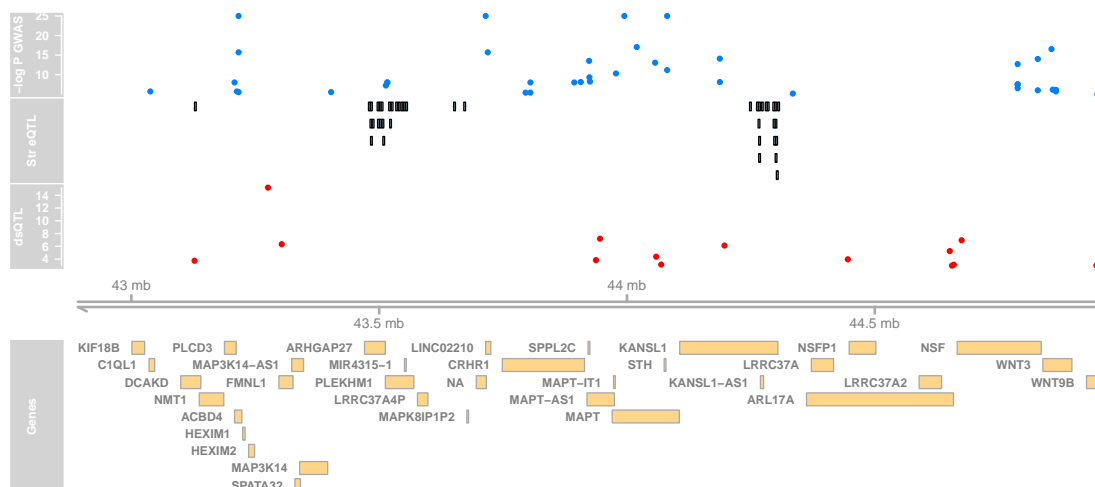
```
> g2 = GRanges(seqnames="chr17", IRanges(start=4.3e7, width=2e6))
> seqlevelsStyle(ebicat37) = "UCSC"
> basic = gwcex2gviz(basegr = ebicat37, contextGR=g2, plot.it=FALSE)
```

We also collect locations of eQTL in the Stranger 2007 multipopulation eQTL study.

```
> c17ts = c17tg[ which(S4Vectors::mcols(c17tg)$type == "Stranger_eqtl") ]
> eqloc = AnnotationTrack(c17ts, chrom="chr17", genome="hg19", name="Str eQTL")
> displayPars(eqloc)$col = "black"
> displayPars(dsqs)$col = "red"
> integ = list(basic[[1]], eqloc, dsqs, basic[[2]], basic[[3]])
```

Now use Gviz.

```
> plotTracks(integ)
```



3 SNP sets and trait sets

3.1 SNPs by name

We can regard the content of a SNP chip as a set of SNP, referenced by name. The `pd.genomewidesnp.6` package describes the Affymetrix SNP 6.0 chip. We can determine which traits are associated with loci interrogated by the chip as follows. We work with a subset of the 1 million loci for illustration.

The `locon6` data frame has information on 10000 probes, acquired through the following code (not executed here to reduce dependence on the `pd.genomewidesnp.6` package, which is very large).

```

> library(pd.genomewidesnp.6)
> con = pd.genomewidesnp.6@getdb()
> locon6 = dbGetQuery(con,
+   "select dbsnp_rs_id, chrom, physical_pos from featureSet limit 10000")

```

Instead use the serialized information:

```

> data(locon6)
> rson6 = as.character(locon6[[1]])
> rson6[1:5]

[1] "rs2887286" "rs1496555" "rs41477744" "rs3890745" "rs10492936"

```

We subset the GWAS ranges structure with rsids that are common to both the chip and the GWAS catalog. We then tabulate the diseases associated with the common loci.

```

> intr = ebicat37[ intersect(getRsids(ebicat37), rson6) ]
> sort(table(getTraits(intr)), decreasing=TRUE)[1:10]

```

Height	6
Select biomarker traits	3
Bipolar disorder	2
Dental caries	2
Homocysteine levels	2
IgG glycosylation	2
Immune reponse to smallpox (secreted IFN-alpha)	2
Metabolic traits	2
Mitochondrial DNA levels	2
Response to cytidine analogues (cytosine arabinoside)	2

3.2 Traits by genomic location

We will assemble genomic coordinates for SNP on the Affymetrix 6.0 chip and show the effects of identifying the trait-associated loci with regions of width 1000bp instead of 1bp.

The following code retrieves coordinates for SNP interrogated on 10000 probes (to save time) on the 6.0 chip, and stores the results in a GRanges instance.

```
> gr6.0 = GRanges(seqnames=ifelse(is.na(locon6$chrom),0,locon6$chrom),
+               IRanges(ifelse(is.na(locon6$phys),1,locon6$phys), width=1))
> S4Vectors::mcols(gr6.0)$rsid = as.character(locon6$db SNP_rs_id)
> seqlevels(gr6.0) = paste("chr", seqlevels(gr6.0), sep="")
```

Here we compute overlaps with both the raw disease-associated locus addresses, and with the locus address ± 500 bp.

```
> ag = function(x) as(x, "GRanges")
> ovraw = suppressWarnings(subsetByOverlaps(ag(ebicat37), gr6.0))
> length(ovraw)

[1] 128

> ovaug = suppressWarnings(subsetByOverlaps(ag(ebicat37+500), gr6.0))
> length(ovaug)

[1] 207
```

To acquire the subset of the catalog to which 6.0 probes are within 500bp, use:

```
> rawrs = mcols(ovraw)$SNPS
> augrs = mcols(ovaug)$SNPS
> ebicat37[augrs]
```

gwasloc instance with 207 records and 36 attributes per record.

Extracted: 2016-01-18

Genome: GRCh37

Excerpt:

GRanges object with 5 ranges and 3 metadata columns:

	seqnames	ranges	strand
	<Rle>	<IRanges>	<Rle>
[1]	chr11	4605195	*
[2]	chr11	46761055	*
[3]	chr1	169519049	*
[4]	chr11	61640379	*
[5]	chr1	8495945	*

DISEASE/TRAIT

<character>

[1]	Response to serotonin reuptake inhibitors in major depressive disorder
[2]	Venous thromboembolism
[3]	Venous thromboembolism

[4]		Trans fatty acid levels
[5]		Optic cup area

	SNPS	P-VALUE
	<character>	<numeric>
[1]	rs2566255	2e-06
[2]	rs1799963	2e-09
[3]	rs6025	1e-96
[4]	rs174449	8e-07
[5]	rs301801	3e-08

seqinfo: 23 sequences from GRCh37 genome

Relaxing the intersection criterion in this limited case leads to a larger set of traits.

```
> setdiff( getTraits(ebicat37[augrs]), getTraits(ebicat37[rawrs]) )
```

```
[1] "Response to serotonin reuptake inhibitors in major depressive disorder"
[2] "Venous thromboembolism"
[3] "Hippocampal volume"
[4] "Red blood cell fatty acid levels"
[5] "Febrile seizures (MMR vaccine-related)"
[6] "Eosinophilic esophagitis"
[7] "QT interval"
[8] "Smoking cessation"
[9] "Systolic blood pressure (alcohol consumption interaction)"
[10] "QRS duration in Tripanosoma cruzi seropositivity"
[11] "Functional impairment in major depressive disorder, bipolar disorder and schizoph
[12] "Periodontitis (CDC/AAP)"
[13] "Odorant perception (&beta;-damascenone)"
[14] "Bronchopulmonary dysplasia"
[15] "Self-reported allergy"
[16] "Migraine"
[17] "Reading and spelling"
[18] "Adverse response to chemotherapy (neutropenia/leucopenia) (carboplatin)"
[19] "Obesity"
[20] "Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disor
[21] "Response to taxane treatment (docetaxel)"
[22] "Response to amphetamines"
[23] "Neuroblastoma"
[24] "Lentiform nucleus volume"
[25] "Capecitabine sensitivity"
[26] "Fasting glucose-related traits (interaction with BMI)"
[27] "Response to angiotensin II receptor blocker therapy"
```



```

[28] "Response to hepatitis C treatment"
[29] "Response to anti-depressant treatment in major depressive disorder"
[30] "Phospholipid levels (plasma)"
[31] "Endometrial cancer"
[32] "MRI atrophy measures"
[33] "Self-rated health"
[34] "Neonatal lupus"
[35] "Crohn's disease"
[36] "Response to statin therapy"
[37] "Tanning"
[38] "Osteonecrosis of the jaw"
[39] "Hip geometry"
[40] "Parkinson's disease"

```

4 Counting alleles associated with traits

We can use `riskyAlleleCount` to count risky alleles enumerated in the GWAS catalog. This particular function assumes that we have genotyped at the catalogued loci. Below we will discuss how to impute from non-catalogued loci to those enumerated in the catalog.

```

> data(gg17N) # translated from GGdata chr 17 calls using ABmat2nuc
> gg17N[1:5,1:5]

```

	rs6565733	rs1106175	rs17054921	rs8064924	rs8070440
NA06985	"G/G"	"A/G"	"C/C"	"G/G"	"G/G"
NA06991	"G/G"	"A/A"	"C/C"	"G/G"	"G/G"
NA06993	"G/G"	"A/A"	"C/C"	"G/G"	"G/G"
NA06994	"A/G"	"A/G"	"C/C"	"A/G"	"G/G"
NA07000	"G/G"	"A/A"	"C/C"	"G/G"	"G/G"

This function can use genotype information in the A/B format, assuming that B denotes the alphabetically later nucleotide. Because we have direct nucleotide coding in our matrix, we set the `matIsAB` parameter to `false` in this call.

```

> h17 = riskyAlleleCount(gg17N, matIsAB=FALSE, chr="ch17",
+   gwwl = ebicat37)
> h17[1:5,1:5]

```

	rs7217319	rs684232	rs623323	rs747685	rs747687
NA06985	0	0	2	1	1
NA06991	0	0	2	2	2
NA06993	0	0	2	1	1

NA06994	0	0	2	2	2
NA07000	0	0	2	2	2

```
> table(as.numeric(h17))
```

	0	1	2
23876	9954	7570	

It is of interest to bind the counts back to the catalog data.

```
> gwr = ebicat37
> gwr = gwr[colnames(h17),]
> S4Vectors::mcols(gwr) = cbind(mcols(gwr), DataFrame(t(h17)))
> sn = rownames(h17)
> gwr[,c("DISEASE/TRAIT", sn[1:4])]
```

gwasloc instance with 460 records and 5 attributes per record.

Extracted: 2016-01-18

Genome: GRCh37

Excerpt:

GRanges object with 5 ranges and 5 metadata columns:

	seqnames	ranges	strand	DISEASE/TRAIT	NA06985	NA06991
	<Rle>	<IRanges>	<Rle>	<character>	<integer>	<integer>
[1]	chr17	38924	*	AIDS progression	0	0
[2]	chr17	618965	*	Prostate cancer	0	0
[3]	chr17	700020	*	Type 2 diabetes	2	2
[4]	chr17	775051	*	Blood pressure	1	2
[5]	chr17	775334	*	Blood pressure	1	2
	NA06993	NA06994				
	<integer>	<integer>				
[1]	0	0				
[2]	0	0				
[3]	2	2				
[4]	1	2				
[5]	1	2				

seqinfo: 23 sequences from GRCh37 genome

Now by programming on the metadata columns, we can identify individuals with particular risk profiles.

5 Imputation to unobserved loci

If we lack information on a specific locus s , but have reasonably dense genotyping on a subject, population genetics may allow a reasonable guess at the genotype at s for this subject. Many algorithms for genotype imputation have been proposed. Here we use a very simple approach due to David Clayton in the *snpStats* package.

We use the “low coverage” 1000 genomes genotypes for the CEU (central European) HapMap cohort as a base for constructing imputation rules. We focus on chromosome 17 for illustration.

The base data are

```
> data(low17)
> low17
```

An object of class "SnpMatrix"

```
chr17:1869 chr17:2220 chr17:6689 rs34663111 rs62054999 chr17:13074
chr17:14008 chr17:19979 chr17:27268 chr17:31906 chr17:32249 chr17:32309
chr17:32311 chr17:32579 chr17:32869 chr17:33766 chr17:33817 chr17:33865
chr17:34206 chr17:34276 chr17:34401 chr17:36164 chr17:36169 chr17:36642
rs62054056 chr17:38761 chr17:44399 rs62057000 chr17:46107 rs34794059
rs35498575 rs11656530 rs12941744 chr17:48400 rs12945606 rs59865068
chr17:48474 rs7501441 chr17:48878 rs4890179 rs4890180 rs4890181
rs62057022 rs62057023 rs4890182 rs55715614 chr17:49783 rs56209223
chr17:49868 rs8070685 rs62057026 chr17:50776 rs11658619 rs11656429
rs9900783 chr17:51088 rs11657419 rs9911285 rs4890184 chr17:51196
rs4890185 rs1882990 rs1109902 rs4424950 rs56200345 rs7503116 rs4890188
rs1136388 chr17:53181 rs1609550 chr17:53324 rs34979521 rs9913041
chr17:54373 rs1109995 chr17:55518 chr17:55533 rs9903623 rs4305131
rs7213008 chr17:57029 chr17:57897 rs55639116 rs62057047 rs11654695
chr17:59056 chr17:59096 chr17:59137 chr17:59340 rs4353523 chr17:59389
rs11649979 chr17:60469 rs12938802 chr17:60733 chr17:61665 chr17:61849
rs1138504 rs11150884 rs9907477 chr17:63097 rs11150885 rs11150886
chr17:63683 chr17:63824 chr17:63927 rs62057048 rs8077096 chr17:64175
rs62057049 rs7226358 chr17:65360 rs62057050 rs7207457 rs11868664
rs4417592 rs4417593 chr17:66507 rs62057051 rs8066107 chr17:68293
chr17:68317 chr17:68329 rs62057055 rs56377713 rs12941133 rs55767019
rs55737141 chr17:69067 rs62057059 rs62059560 rs62059561 rs62059562
rs62059563 rs12450789 chr17:71465 chr17:71471 rs12943724 rs56871222
rs62059580 rs9915268 rs35292180 chr17:72213 chr17:72267 chr17:72335
chr17:72338 rs12450662 rs28698090 rs4442878 rs9890183 rs8078223
rs9896436 rs35147412 rs11867332 rs34778113 rs36016398 rs35147390
rs11867900 rs35698541 chr17:74922 chr17:75264 rs61618085 chr17:75839
chr17:76431 rs12939784 chr17:76628 rs9915328 rs34372025 rs12452457
```

chr17:77285 rs11150887 rs8081881 rs8078929 rs8069524 rs9675043
rs28521142 rs8075539 chr17:80061 chr17:80433 rs11150888 rs11150889
rs4890193 rs4550502 rs11150890 rs11150891 rs12945036 rs11150892
rs55708782 chr17:81113 rs4890194 rs4890195 chr17:81254 chr17:81349
chr17:81369 rs9674467 chr17:81659 rs9674571 chr17:81768 chr17:81921
chr17:81922 chr17:81923 rs8075084 rs8075208 chr17:82229 chr17:82312
rs34314694 rs4890196 rs4890171 chr17:82992 rs4890197 rs4890198
rs12941826 rs28529202 rs28690679 chr17:84521 rs8073847 rs35286566
chr17:84936 rs8076034 chr17:85592 chr17:85776 rs4531790 rs3923019
chr17:85842 rs11655874 rs11651610 rs3923018 rs11651800 rs3923017
rs11654890 chr17:86853 rs9905036 chr17:86925 rs55708732 rs11652984
rs35315427 rs11150893 rs11150894 rs11653255 rs12603796 chr17:87964
rs34347588 rs8074031 rs7213583 rs7213702 rs12449638 rs7217872
chr17:89055 rs12937656 chr17:90050 rs62056563 rs9912863 rs9908467
rs9908519 rs9894303 rs9913392 rs9909439 rs9892331 rs35026216 rs55904681
rs34170095 rs35445227 rs12942097 rs12949408 chr17:92005 chr17:93709
chr17:94243 rs12150065 chr17:94595 chr17:94869 rs12150077 chr17:94873
rs9896350 rs58055127 chr17:95303 chr17:95332 rs9892040 rs7207284
rs62622824 rs58153628 rs57953101 rs7405600 rs4985571 rs4352099
chr17:97378 rs4353524 rs4426400 chr17:97720 rs12948758 rs12449506
rs12451407 rs4357997 chr17:98250 rs11651297 rs4395128 chr17:98469
chr17:98717 rs59337913 chr17:98915 rs4129926 rs56252542 chr17:100246
rs7406880 chr17:100371 rs62056571 rs56384259 chr17:100691 rs7405713
rs12451219 rs12451236 rs12600698 rs12602957 chr17:101766 rs9901911
chr17:102171 rs7208985 rs58485634 rs7223759 rs7209151 rs58315634
rs9892618 rs7209688 rs7221298 rs7217222 rs7214608 rs28747076 rs7214637
rs12451029 rs4458053 rs28515912 rs28706104 rs28556780 rs62056574
rs9900685 rs60727688 rs12601375 rs4890202 rs4890203 chr17:108015
rs12452527 rs11150870 rs9906110 chr17:109220 chr17:109235 rs9907635
rs7406768 chr17:109423 rs4985595 rs7224163 rs7215219 chr17:110522
rs7219680 rs7212156 rs9903116 rs8073479 rs8073513 rs10454094
chr17:111460 chr17:111519 chr17:111665 rs56702013 rs28468376 rs28404325
chr17:112970 rs7208188 rs55695413 rs6565702 rs4985594 chr17:113584
chr17:113604 rs34427628 rs4985593 rs4985592 chr17:113738 rs12947571
rs12449625 chr17:114530 rs4617924 rs8075999 chr17:115031 chr17:115115
rs60794269 rs4985591 rs4985590 rs4247500 rs4985589 rs4371209 rs4471739
chr17:115802 rs4471740 rs7224768 rs7224674 rs12940704 chr17:116375
chr17:116431 chr17:116499 chr17:117204 chr17:117452 rs28593623
rs56960944 chr17:118657 rs12451051 chr17:118962 rs7504058 rs7501898
chr17:119999 rs4985588 rs12937990 chr17:122582 rs8079261 rs9789021
chr17:123540 rs9891976 chr17:123961 rs9915796 rs59849037 chr17:125579
rs7207517 chr17:126030 rs7211665 rs9902230 rs10871511 rs9915647

rs9915649 chr17:126885 chr17:127753 rs56101945 rs12936802 rs7223270
rs9789059 rs9789037 rs9789038 rs9788983 chr17:129697 rs35128325
rs56210084 rs56005157 rs7208824 chr17:130149 chr17:130369 chr17:130451
chr17:130529 rs4985587 chr17:130892 rs12949507 rs9894715 rs12449754
rs12942829 rs11150871 rs12451279 rs12452629 rs9906685 chr17:132008
rs9901478 rs12453152 rs9891894 rs9891903 chr17:132276 rs10871512
rs11657652 chr17:132364 rs35035943 rs4985586 rs9913843 rs35478781
rs9909445 rs12936617 chr17:133111 rs12949092 chr17:133392 chr17:133497
rs12451101 rs9889392 rs9901577 rs11650789 rs11650933 rs10871513
rs55995547 rs55856972 rs62052705 chr17:135075 rs55868427 rs12951184
rs12951413 chr17:135237 rs9915773 chr17:135524 chr17:135981 rs11652478
rs11653478 rs12946667 chr17:136397 chr17:136464 rs34700119 rs36047229
chr17:138726 rs28705960 chr17:139250 rs9891792 rs9912566 chr17:139747
chr17:139853 chr17:139901 chr17:139984 rs9912795 rs9905901 chr17:140586
rs12950277 rs9913719 rs11650366 rs9675256 chr17:141286 rs57803378
chr17:143043 rs7502760 rs7212943 rs6565707 rs7501694 rs12450463
rs7213496 rs12940213 rs12452413 chr17:144037 rs34724309 rs34223743
chr17:146378 rs11867532 rs34927789 rs11869552 rs28583833 chr17:147237
rs11658390 chr17:147332 chr17:147595 rs11655614 rs62053674 rs9902691
rs9893423 rs9903406 rs17879541 chr17:148623 rs57766060 chr17:149102
rs9747194 rs9747497 chr17:149349 rs9746989 chr17:149583 chr17:149593
chr17:149596 chr17:149615 rs12936405 rs56709577 chr17:150830
chr17:151137 chr17:151242 rs9285362 rs4286161 rs62053676 rs56117701
chr17:151951 rs4638649 chr17:152189 rs4313866 rs4354994 chr17:152522
chr17:152666 chr17:152735 rs9747475 chr17:153195 rs12453473 rs9747969
rs55929526 chr17:154244 rs62053678 rs55857427 chr17:154589 rs4990301
chr17:154627 rs4990302 rs7406802 chr17:155099 rs62053680 rs6565709
chr17:155410 rs4074549 chr17:155629 chr17:155738 chr17:156101
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rs9897769 rs9909725 chr17:78654024 rs12937511 chr17:78654554
[ reached getOption("max.print") -- omitted 60 rows ]

```

A somewhat sparser set of genotypes (HapMap phase II, genomewide 4 million loci) on chromosome 17 is archived as `g17SM`. This has a compact `SnpMatrix` encoding of genotypes.

```

> data(g17SM)
> g17SM

```

An object of class "SnpMatrix"

```

      rs6565733 rs1106175 rs17054921 rs8064924 rs8070440 rs3794811 rs8066551
NA06985      03      02      03      03      03      02      02
      rs7215271 rs7224313 rs7217319 rs17055015 rs4890199 rs10459967 rs4890183
NA06985      02      01      02      01      03      01      02
      rs11654491 rs1882990 rs4424950 rs7503116 rs1136388 rs1609550 rs12937885
NA06985      00      03      03      01      03      02      03
      rs7213008 rs7212865 rs10153238 rs11654695 rs8072649 rs8072804
NA06985      01      03      03      03      03      03
      rs11649979 rs12938802 rs11650641 rs1138504 rs11150884 rs9907477
NA06985      01      01      03      01      03      02
      rs7226358 rs8066107 rs9915268 rs8078223 rs9896436 rs4890192 rs8078929
NA06985      03      02      03      02      02      01      01
      rs4890194 rs9674467 rs8075084 rs4890171 rs4890197 rs4890198 rs12941826
NA06985      03      02      03      01      01      01      01
      rs8073847 rs3923018 rs11651800 rs3923017 rs11654890 rs11652984

```

NA06985	02	01	03	03	02	01	
	rs11150893	rs11653255	rs12603796	rs12103587	rs4890172	rs8074031	
NA06985	02	01	01	03	01	03	
	rs7213702	rs12449638	rs7217872	rs12937656	rs9908467	rs9896350	rs7207284
NA06985	03	01	01	03	02	03	02
	rs7222853	rs12602957	rs7223759	rs7221298	rs12452527	rs11150870	
NA06985	01	03	02	03	02	03	
	rs9906110	rs9907635	rs7406768	rs7224163	rs7215219	rs7219680	rs7212156
NA06985	01	03	01	01	01	03	02
	rs9903116	rs8073479	rs8073513	rs10454094	rs11656900	rs4130822	rs7208188
NA06985	03	02	02	03	01	03	01
	rs7220744	rs4985594	rs12947571	rs12449625	rs4617924	rs4247500	rs7224674
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	rs8076943	rs906565	rs1532977	rs1508206	rs9901704	rs4790886	rs12950748
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	rs11078622	rs4790823	rs11078629	rs9912549	rs9898672	rs4790288	rs9898694
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	rs7209096	rs4566239	rs12944784	rs8069030	rs1873826	rs902968	rs12232494
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	rs746145	rs902967	rs902966	rs12952369	rs12953162	rs12937460	rs7219763

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	rs216195	rs1885986	rs216193	rs216192	rs4523957	rs391300	rs8081273

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	rs8068167	rs9904113	rs9904166	rs1516801	rs8076916	rs11658432	rs4790549
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	rs16953580	rs12451331	rs9893372	rs16953582	rs917605	rs3084	rs887387
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						rs382524	

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	rs1876726	rs201611	rs968292	rs3899045	rs9890830	rs201609	rs201608
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	rs8077090	rs201607	rs7220819	rs7221027	rs201606	rs201605	rs7210682
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	rs4791415	rs2662970	rs7210143	rs11868026	rs6503319	rs7221019	rs4792016
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	rs2662959	rs7512	rs2520195	rs2520194	rs2520191	rs11078857	rs2063269
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	rs2662948	rs2175040	rs2106400	rs7211630	rs2520185	rs2520184	rs7223486
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	rs2520173	rs2175039	rs1509112	rs3809732	rs2520166	rs2662975	rs2520162
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	rs368141	rs7213409	rs1633833	rs6503322	rs617655	rs368500	rs411511
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	rs4792037	rs4792038	rs8080356	rs7222976	rs16943766	rs7214355	rs9899841
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	rs3803846	rs11654958	rs7220621	rs7225482	rs768596	rs4792049	rs4792050
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	rs989170	rs7216976	rs989171	rs9913134	rs12941011	rs9907860	rs17510939
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	rs6502136	rs758429	rs9913500	rs758430	rs758431	rs758432	rs1541461
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	rs237358	rs237356	rs237355	rs8064359	rs8064640	rs8081914	rs237353
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	rs4791501	rs237352	rs11657971	rs11871974	rs10491190	rs17646290	
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	rs11078076	rs7210285	rs4792259	rs237351	rs4792260	rs237348	rs237347
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	rs237346	rs237345	rs12950008	rs427488	rs173160	rs7213121	rs237342
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	rs9901677	rs9903797	rs9910725	rs9909281	rs4514709	rs2726534	rs2726533
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	rs1014575	rs10852811	rs12601657	rs1233855	rs16946486	rs16946487	
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	rs16949234	rs12449595	rs2529629	rs12453877	rs2529627	rs2856177

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	rs2529625	rs3826366	rs917308	rs9901549	rs12452172	rs3785662	rs3785659
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	rs12601148	rs4792446	rs1050214	rs2230355	rs11078233	rs11078234	
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	rs11869709	rs4792447	rs7211577	rs7212116	rs12951559	rs12944270	
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	rs16949277	rs11656595	rs8065030	rs4792449	rs11655445	rs12946884	
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	rs4792450	rs8066913	rs17679758	rs9891187	rs726729	rs7213012	rs7214697
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	rs17617684	rs7218697	rs7223903	rs17679866	rs4792453	rs4792454	rs2323221
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	rs8077212	rs988489	rs7207687	rs7207431	rs983424	rs1859909	rs1859907
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	rs9903896	rs8067063	rs1859905	rs1859904	rs17680043	rs2874993	rs7503943
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	rs12453856	rs12453899	rs11078236	rs11078237	rs12450424	rs16949314	
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	rs11868525	rs16949319	rs7214616	rs4792461	rs9911711	rs960296	rs3815271
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	rs4284690	rs4303583	rs4303584	rs4303585	rs4303586	rs1465243	rs1465242
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	rs9908703	rs9908513	rs11868964	rs11078238	rs17680211	rs2874994	
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	rs1107828	rs9913734	rs9913735	rs7502686	rs886865	rs9914886	rs960361
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	rs7220012	rs755732	rs755730	rs733769	rs12942020	rs7223714	rs2190626
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	rs4792467	rs4791571	rs886862	rs9890556	rs4791573	rs16949371	rs4791574
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	rs740379	rs11078240	rs4792468	rs4792469	rs3826365	rs9890648	rs758049
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	rs7221273	rs11870395	rs12373159	rs12103925	rs7222205	rs4792471	
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	rs8080590	rs726942	rs7211702	rs2108461	rs9900779	rs1015663	rs2058044
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	rs9890916	rs9891555	rs740376	rs6502345	rs11870724	rs9909862	rs720873
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	rs7220003	rs4792473	rs1990203	rs3785655	rs8078587	rs11078241	rs2200000
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	rs7222164	rs1859906	rs917310	rs1871784	rs7217818	rs11552190	rs1053326
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	rs2291208	rs2086515	rs6502346	rs2199998	rs7225272	rs7226075	rs2127998
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	rs8078705	rs8080020	rs12944383	rs7215862	rs4792478	rs2086514	rs7207163
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	rs16949420	rs1994029	rs8069341	rs17619418	rs17619424	rs11078245	
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	rs7209627	rs8066595	rs7214411	rs7220093	rs7220276	rs16949423	rs7220344
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	rs16949426	rs8077326	rs17692591	rs11657444	rs17692633	rs17619645	
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	rs9914530	rs3912261	rs3912262	rs3912263	rs3912264	rs11651598	rs11651699

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	rs16949443	rs12453007	rs16949449	rs2127994	rs11658470	rs11658502	
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	rs2323182	rs9913173	rs9913599	rs2323183	rs9913728	rs8074962	rs9915002
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	rs9906816	rs7212410	rs12941577	rs7359614	rs9916615	rs7223120	rs8065351
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	rs12709307	rs721334	rs721333	rs4054653	rs4054655	rs2170368	rs2021844
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	rs16949502	rs16949506	rs7222435	rs11652792	rs9908835	rs7225858	
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	rs8082367	rs7226329	rs11078246	rs3859256	rs6502358	rs16949512	
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	rs3967057	rs11869441	rs13341754	rs7221370	rs16949529	rs2127995	
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	rs8072828	rs7215419	rs7216735	rs9912653	rs17621552	rs7220278	rs9896798
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	rs665248	rs8079813	rs10521272	rs9303106	rs8079300	rs4791580	rs4792484
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	rs11651542	rs8064430	rs11651550	rs16950067	rs2323453	rs7212494	
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	rs2323454	rs2875053	rs16950108	rs8078778	rs8080249	rs8080558	rs8079491
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	rs4791591	rs4791592	rs4791593	rs11867168	rs11654940	rs11649913	
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	rs16950131	rs12940255	rs9899511	rs2323455	rs987189	rs12942331	rs8073806
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	rs4792532	rs9895493	rs9897170	rs2323457	rs2323458	rs9891806	rs9906577
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	rs12941773	rs12936630	rs9890349	rs12602267	rs12602281	rs9899112	
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	rs5020067	rs5020068	rs5020069	rs9914478	rs9912640	rs9914512	rs1558269
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	rs9914939	rs1558271	rs1558272	rs9914043	rs9914639	rs12950816	rs12950593
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	rs12951138	rs12951163	rs12449673	rs2191197	rs9894757	rs9894763	
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	rs2215309	rs4605202	rs9900619	rs12951301	rs4792533	rs4792534	rs11657986
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	rs4792535	rs1014375	rs2159394	rs9898082	rs8080998	rs12948034	rs12937664
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	rs4792537	rs5008028	rs5008029	rs9898377	rs2323460	rs2323461	rs12950233
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	rs9789080	rs9788971	rs11649745	rs11871201	rs12942384	rs7223237	
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	rs16950200	rs9911025	rs16950205	rs9911505	rs12150635	rs12150282	
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	rs11870765	rs8065554	rs8065567	rs2218086	rs2218087	rs9910059	rs9916419
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	rs7220775	rs3922119	rs12944867	rs8068567	rs8067551	rs6502384	rs8067558
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	rs1561433	rs1561434	rs1465861	rs1465862	rs1465863	rs1000724	rs1465864
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	rs12941338	rs1530091	rs7501621	rs11659070	rs8080455	rs8067083	rs8067256
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	rs2586557	rs8082656	rs7208654	rs11658871	rs11872072	rs8079686	rs8080194
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	rs7208308	rs859243	rs859244	rs3900639	rs859245	rs3922810	rs859247
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	rs859248	rs859250	rs859251	rs859252	rs859253	rs7208549	rs7208915
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	rs859254	rs859256	rs708591	rs17776817	rs859263	rs859264	rs859265
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	rs859266	rs859267	rs12603728	rs2535600	rs9909446	rs9889801	rs9907878
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	rs8070859	rs4792709	rs6502482	rs7211756	rs758853	rs3760298	rs11554353
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	rs8072652	rs8076538	rs2302416	rs8077373	rs6502483	rs2041460	rs718884
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	rs7212804	rs7213125	rs3826360	rs7220790	rs9891938	rs8070719	rs8074888
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	rs11078366	rs6502556	rs8068587	rs4985714	rs8066877	rs8070944	rs16961288
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	rs8080972	rs4985715	rs11658533	rs6502558	rs6502559	rs7207187	rs11658084
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	rs7219149	rs11650156	rs2247518	rs2289668	rs8076893	rs9909350	rs16960201

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	rs1443460	rs2289669	rs16960206	rs2289670	rs8081204	rs9900821	rs8076891
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	rs8065082	rs11657807	rs2289667	rs2289666	rs11871177	rs716126	rs1961669
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	rs2253611	rs2250486	rs2453599	rs10735	rs3803838	rs2453594	rs2120273
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	rs2453589	rs2165894	rs7222948	rs2245724	rs2245639	rs2453586	rs2165895
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	rs7216938	rs9674673	rs2440161	rs11656199	rs12949521	rs2440162	rs2440163
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	rs2453602	rs17684040	rs4598966	rs2012843	rs2453604	rs1806922	rs11654072
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	rs7342960	rs11650399	rs12604069	rs12946324	rs8080984	rs2120274	
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	rs16960251	rs4273101	rs2453608	rs7405862	rs7502992	rs12941194	rs7215257
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	rs9914765	rs8079648	rs7225451	rs7210433	rs1470317	rs11871420	rs9889632
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	rs8064748	rs8074500	rs4925026	rs8065688	rs11871642	rs4621031	rs3888642
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	rs11204407	rs9901895	rs4925036	rs1004490	rs1004491	rs4646794	rs4646795
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	rs962801	rs962800	rs2072332	rs4646798	rs1034897	rs2386145	rs16960280
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	rs1800869	rs4646801	rs4646802	rs2108971	rs8073767	rs4646804	rs4244600
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	rs7216	rs7215	rs3760489	rs11868363	rs4646807	rs8074204	rs12937179
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	rs3744692	rs3786036	rs2072330	rs2072329	rs9895030	rs4646790	rs2072328
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	rs887241	rs887240	rs887239	rs4646789	rs4646788	rs4646787	rs12951039
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	rs2072327	rs4646786	rs4646785	rs4646784	rs4646783	rs3760487	rs7221211
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	rs16960386	rs11204415	rs9898251	rs17793620	rs2052052	rs7225305	
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	rs9905570	rs205094	rs1662214	rs1638522	rs205093	rs205090	rs176098
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	rs9897295	rs184006	rs205088	rs169512	rs9915902	rs11656704	rs9894723
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	rs379703	rs9892995	rs17794370	rs166841	rs157386	rs192511	rs4462660
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	rs157387	rs157388	rs157389	rs157390	rs157391	rs157393	rs7216958
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	rs11204416	rs157394	rs12602779	rs157405	rs157406	rs150122	rs157407
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	rs157408	rs157409	rs11204417	rs157401	rs157402	rs16960454	rs16960456
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	rs157397	rs157398	rs169513	rs205103	rs205104	rs9905538	rs8064549
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	rs281363	rs281362	rs11654515	rs281366	rs9899357	rs4925054	rs9914273
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	rs119672	rs7224713	rs203450	rs11871326	rs175922	rs4476228	rs203481
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	rs203480	rs203479	rs2891912	rs2891911	rs203478	rs16960545	rs850623
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	rs7211535	rs16960602	rs9911872	rs9912657	rs7218708	rs1034904	rs2385961
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	rs4588033	rs1812934	rs7223505	rs9897168	rs9893832	rs17686839	rs1971044
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	rs11869959	rs11658722	rs9895618	rs9896109	rs11650623	rs4073723	
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	rs1076066	rs899416	rs2880231	rs17052381	rs2342045	rs9892857	rs11871441
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	rs899414	rs11871520	rs755583	rs755584	rs2199698	rs4993505	rs12949684
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	rs4993506	rs4993507	rs4993511	rs981637	rs12051613	rs12601480	rs8069077

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	rs1842109	rs12450492	rs4393617	rs4889721	rs9989453	rs2169914	rs2169913
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	rs6565378	rs1985878	rs1985877	rs7218015	rs11651208	rs17052396	rs2061853
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	rs7225244	rs6565381	rs8068034	rs11150718	rs7350915	rs12940235	
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	rs12948134	rs2880292	rs12103516	rs11658486	rs8075964	rs7218889	
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	rs2169916	rs1877500	rs1817415	rs1382623	rs12950467	rs2219805	rs9897562
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	rs12937394	rs6565386	rs8072844	rs402052	rs3751916	rs2019216	rs8073228
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	rs907708	rs907707	rs9896042	rs2342216	rs12450390	rs1850565	rs8065425
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	rs8066357	rs1512846	rs12452224	rs12450074	rs907704	rs17052434	rs1518049
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	rs1518050	rs4547384	rs4547385	rs4589611	rs4325621	rs11150721	rs2221893
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	rs8073629	rs7405615	rs12602066	rs1877497	rs17052451	rs12938673	
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	rs7213111	rs12941214	rs8072114	rs8068515	rs9895515	rs4263002	rs8078516
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	rs7215275	rs12940712	rs4889733	rs17808614	rs11150722	rs9891438	
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	rs7220748	rs17808656	rs7223844	rs12150287	rs1512845	rs907705	rs907706
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	rs12946383	rs1512844	rs1914613	rs17808708	rs1878659	rs2089962	rs7207851
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	rs8072903	rs1518054	rs7211548	rs2037270	rs7502250	rs11656011	rs11868258
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	rs7406339	rs8080286	rs1996463	rs908996	rs908997	rs7216870	rs8073881
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	rs4889705	rs2681323	rs17808964	rs2738971	rs17735945	rs2681322	
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	rs17736008	rs12452777	rs11658166	rs2341271	rs11651702	rs2341266	
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	rs2879991	rs8072503	rs11654965	rs8182322	rs4243239	rs7221013	rs13353197
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	rs9904279	rs1850917	rs9904608	rs7502677	rs1850918	rs8067434	rs4889741
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	rs8079620	rs12937428	rs7220319	rs12449520	rs4889742	rs1040269	rs932219
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	rs11868335	rs2203931	rs7222514	rs8070275	rs8066332	rs11658968	
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	rs12952805	rs1606914	rs9893002	rs7502976	rs4889748	rs2340410	rs7210668
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	rs8080725	rs7225129	rs12942556	rs11868559	rs12150105	rs12944067	
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	rs1850005	rs1515750	rs1973661	rs2292697	rs2292698	rs9807046	rs12453646
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	rs4889755	rs4889756	rs7211286	rs11867939	rs8075304	rs12325748	
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	rs11080080	rs16972768	rs8082664	rs8064338	rs9709033	rs3932342	
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	rs11080119	rs8079454	rs7503713	rs3930206	rs9748137	rs9748024	rs9893017
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	rs11655572	rs9903867	rs9904110	rs4988873	rs7211389	rs11657089	rs9911680
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	rs4302084	rs7213094	rs1976838	rs5015403	rs4795878	rs11868485	rs11653494
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	rs9910343	rs16966494	rs11867343	rs7218531	rs11656707	rs11871417	
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	rs2313050	rs4795077	rs7215009	rs4796099	rs1851271	rs7226210	rs7221571
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	rs12600900	rs12600912	rs2139942	rs11080048	rs11658274	rs9912637	
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	rs1969373	rs1521563	rs12103473	rs11657456	rs7225143	rs12453728	
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	rs11080053	rs12451926	rs17702342	rs16972674	rs660344	rs16964160	
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	rs1975980	rs1402726	rs2061893	rs8074736	rs1851267	rs16972661	rs16972676
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	rs16964174	rs11867986	rs7210518	rs7211074	rs8072882	rs1521560	rs9909708
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	rs4795428	rs1829662	rs1829663	rs11080056	rs665910	rs3933803	rs9902684
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	rs2169956	rs1824900	rs1824901	rs6505104	rs8182310	rs12449549	rs4795494
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	rs7220921	rs8077978	rs1123926	rs12453002	rs2012468	rs11871886	
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	rs16965240	rs8075356	rs3762811	rs17776355	rs7209815	rs8079002	
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	rs11080110	rs2270759	rs2270758	rs2270757	rs6505149	rs6505150	rs6505151
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	rs4794872	rs4344800	rs11869594	rs4795552	rs1909472	rs12602174	rs1875043
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	rs11550663	rs7212516	rs12306	rs7221912	rs11871012	rs7213143	rs4795560
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	rs322188	rs322190	rs7209640	rs7222157	rs4795609	rs4794888	rs9989470
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	rs7217148	rs9989456	rs2086033	rs2100894	rs2100895	rs10853139	rs10853140
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	rs1043140	rs7213311	rs2253256	rs2011614	rs16965805	rs7218318	rs2011179
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	rs385535	rs373531	rs17246595	rs9896472	rs9915783	rs952581	rs7223114
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	rs315481	rs7213584	rs7219254	rs9895962	rs11650856	rs395438	rs9905204
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	rs9807050	rs9807054	rs416206	rs12936363	rs12936664	rs447750	rs425809

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	rs8072636	rs425083	rs398061	rs8082682	rs427272	rs11080165	rs7214705
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	rs7210009	rs7210175	rs420799	rs9891408	rs9890552	rs1979207	rs373242
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	rs417042	rs404849	rs447366	rs417178	rs386583	rs404918	rs12325970
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	rs420546	rs412820	rs9896104	rs1631252	rs391287	rs413155	rs419358
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	rs400459	rs401781	rs9635765	rs376517	rs425967	rs385559	rs6505256
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	rs412107	rs432414	rs417156	rs421875	rs412018	rs315497	rs315498
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	rs11655497	rs12937437	rs315499	rs10512437	rs7209149	rs315500	rs16966823
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	rs7219892	rs11658518	rs315501	rs770505	rs397729	rs315506	rs12103874
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	rs315509	rs11080166	rs12945272	rs417702	rs12949285	rs9900159	rs1551355
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	rs8077893	rs7222438	rs10853143	rs770510	rs1670694	rs12602686	rs7223262
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	rs315492	rs16966833	rs16966835	rs315495	rs315496	rs9916296	rs9897220
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	rs9890373	rs9890598	rs9889619	rs9898609	rs8072792	rs315502	rs7223829
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	rs449331	rs7210226	rs11654750	rs450735	rs447241	rs442939	rs399414
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	rs392669	rs770512	rs17182071	rs17182078	rs884351	rs8066501	rs12939349
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	rs10512436	rs16966855	rs17827108	rs16966858	rs17246714	rs365112	
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	rs17779853	rs397503	rs386811	rs11870496	rs9914500	rs9915265	rs7211595
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	rs11659123	rs11650648	rs8074803	rs8078853	rs2880709	rs11871038	
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	rs1477201	rs2111665	rs2111666	rs1106262	rs9905818	rs4795639	rs7212433

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	rs220441	rs220443	rs9906818	rs7215931	rs220447	rs220448	rs220451
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	rs220452	rs220453	rs9912356	rs220456	rs9889483	rs220457	rs220458
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	rs16966876	rs9913053	rs7220518	rs9893130	rs16966878	rs9893595	
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	rs9899799	rs9902451	rs9303646	rs9902100	rs9903176	rs13380827	rs9902817
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	rs9903046	rs16966900	rs13380855	rs12325969	rs9910876	rs9911317	
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	rs6505263	rs11657397	rs11080171	rs8068039	rs8074024	rs11080172	
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	rs9909478	rs2344310	rs8068049	rs12941700	rs9906443	rs4795659	rs739799
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	rs739800	rs16967028	rs9899093	rs10491099	rs16967029	rs2051810	
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	rs3744613	rs1978116	rs3760454	rs7222814	rs10468585	rs16967042	rs2074101

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	rs8064843	rs9891114	rs7225901	rs8066335	rs7216102	rs7210970	rs9913796
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	rs7225398	rs5019565	rs7218986	rs9911264	rs9912129	rs8066558	rs5003283
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	rs5003287	rs2627070	rs11870077	rs2627066	rs9901121	rs7405579	rs9899054
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	rs2627145	rs8077092	rs8071694	rs506766	rs11871335	rs508566	rs578635
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	rs2470243	rs559228	rs521919	rs2428338	rs2470250	rs473342	rs548957
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	rs2957889	rs2957922	rs2627088	rs2916775	rs2916773	rs9674915	rs16972582
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	rs1020901	rs1020902	rs4633763	rs2344620	rs9915569	rs7217747	rs12942624
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	rs7221734	rs9911706	rs6505286	rs301348	rs8076166	rs9911425	rs8080615
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	rs9902253	rs17182658	rs16967194	rs301342	rs12953030	rs16967197	
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	rs2543968	rs2543969	rs7208878	rs2543970	rs17247848	rs11868702	rs2543971
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	rs12601970	rs7215958	rs7209106	rs2253180	rs2291636	rs2729338	rs2640837
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	rs12603703	rs2640838	rs2640839	rs11869369	rs2543977	rs7209587	rs7210072
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	rs4530182	rs12947682	rs2032753	rs8068418	rs17780664	rs8073415	rs8073565
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	rs2521980	rs1859076	rs7222467	rs6505314	rs6505315	rs3025286	rs28980
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	rs9892452	rs28929	rs3025250	rs12602141	rs28927	rs3025249	rs2074215
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	rs12603776	rs2172091	rs2130818	rs923633	rs17836945	rs10512456	
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	rs317384	rs317385	rs7222026	rs317388	rs7210184	rs7213522	rs7213529
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	rs1490898	rs1490897	rs4795833	rs12451209	rs9911911	rs409573	rs441618
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	rs7222985	rs8068600	rs11867558	rs8070847	rs9900623	rs9895316	rs8074124
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	rs8081144	rs7218361	rs903507	rs8182252	rs7224759	rs1874226	rs11653404
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	rs4795385	rs11657812	rs9909879	rs412430	rs1619021	rs1877030	rs388548
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	rs382861	rs12453198	rs11654954	rs272157	rs7502356	rs371957	rs7504080
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	rs3907837	rs998480	rs9916503	rs9889354	rs380373	rs12453736	rs12453682
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	rs9916188	rs7502428	rs9899834	rs16966168	rs7224525	rs1526600	rs7211319
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	rs12946454	rs12603116	rs8069937	rs2291447	rs9906321	rs2291446	rs2306828
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	rs17630064	rs9897711	rs16939911	rs8068730	rs9901986	rs11869039	
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	rs7212560	rs11652120	rs9908267	rs9909939	rs9889279	rs4248280	rs7342962
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	rs4248914	rs4986168	rs4247364	rs11867409	rs11656414	rs7215764	rs7217153
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	rs11574834	rs2074293	rs11867907	rs11574832	rs4792809	rs3178151	
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	rs12452717	rs1230072	rs1230073	rs1230090	rs1230091	rs1237651	rs1230094
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	rs1230106	rs9916694	rs12947718	rs11654226	rs1230079	rs12942666	
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	rs2684623	rs2947573	rs8076773	rs9914198	rs2696638	rs2696641	rs2696642
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	rs2696645	rs3859266	rs1852269	rs17642476	rs2458221	rs2950657	rs2463519
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	rs241023	rs241022	rs7208489	rs16940858	rs241021	rs241020	rs1358072
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	rs16941035	rs16941038	rs2049515	rs2158474	rs17761207	rs17688002	
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	rs16940838	rs17653255	rs4608377	rs1547936	rs17574796	rs17574824	
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	rs8078960	rs7217466	rs7217660	rs3785875	rs3785874	rs867859	rs9893095
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	rs16941677	rs4968309	rs2071439	rs17605038	rs16941684	rs11653297	
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	rs16941721	rs11651477	rs11652097	rs16941731	rs17605348	rs16941733	
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	rs16969966	rs12452359	rs7220842	rs8071784	rs4144743	rs4144746	
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	rs7225134	rs11653733	rs2317385	rs12949611	rs11651862	rs7208170	
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	rs7209700	rs4968312	rs8078614	rs3851807	rs8069732	rs11868894	rs16941796
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	rs951351	rs3785870	rs2292864	rs12940355	rs12942670	rs12943780	
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	rs12942968	rs12951679	rs13306482	rs15908	rs2292863	rs5921	rs4642
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	rs12600865	rs7218813	rs6504833	rs9913675	rs4968256	rs2271803	rs12952926
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	rs12948299	rs2175288	rs12952475	rs11867160	rs7216112	rs9905308	
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	rs8070463	rs4794053	rs16942912	rs8075566	rs6503807	rs8078309	rs7221355
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	rs7223592	rs7208944	rs9913503	rs12453025	rs8078267	rs4267364	rs12949237
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	rs11657388	rs11079788	rs16946878	rs17250953	rs11650354	rs12721470	
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	rs16953800	rs8069263	rs8077814	rs2123342	rs11079817	rs12950647	
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	rs8082154	rs9914462	rs2244523	rs2412300	rs2586469	rs9893817	rs4794122
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	rs2440123	rs8078918	rs2049675	rs11650396	rs7212732	rs1881139	rs4794123
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	rs4794124	rs2586458	rs2696261	rs9913213	rs4994726	rs11079905	rs2246629
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	rs11653995	rs12945594	rs12945863	rs12936244	rs12938101	rs11079909	
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	rs12948696	rs11654865	rs7359703	rs9901574	rs17560164	rs7225245	
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	rs4794129	rs7222994	rs17560297	rs2412303	rs8065568	rs9913722	rs9900040
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	rs4793649	rs11656398	rs7212308	rs11652889	rs16948880	rs9897248	
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	rs4794152	rs2290862	rs2290861	rs7208018	rs1551717	rs3744531	rs557
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	rs16949683	rs17574235	rs7342961	rs3815411	rs4793687	rs12450473	
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	rs7223690	rs12949330	rs8073586	rs11651110	rs1860574	rs12943887	
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	rs9897386	rs6504698	rs11657310	rs2286760	rs2286761	rs11868199	rs9898969

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	rs6504700	rs7350913	rs7216962	rs9893865	rs11079949	rs9902908	rs4794214
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	rs12950137	rs12943424	rs12943742	rs12951858	rs9896627	rs4793689	
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	rs12937069	rs12938251	rs11079950	rs16949732	rs2191443	rs11653126	
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	rs16949734	rs8076463	rs7211731	rs9911123	rs9897204	rs8080145	rs9906719
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	rs10514982	rs7213331	rs7502980	rs9889715	rs3786007	rs8067441	rs6504702
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	rs12941969	rs12948421	rs9893020	rs17575641	rs917654	rs11867403	
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	rs17575864	rs8077970	rs9902070	rs9894576	rs9906643	rs11655149	rs4794229
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	rs4794230	rs1034922	rs1034923	rs8082469	rs8074198	rs8078014	rs9904925
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	rs4794234	rs11079956	rs8067194	rs8070067	rs8073974	rs6504708	rs7207505
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	rs9914877	rs8066624	rs7215513	rs9910203	rs8064322	rs8068355	rs9807015
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	rs11870623	rs11652834	rs2319455	rs16950715	rs2107114	rs11654419	
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	rs11870299	rs9675273	rs7218104	rs9674802	rs7220115	rs12150424	
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	rs35773539	rs10451287	rs9675183	rs9675108	rs9890328	rs11869742	rs64636
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	rs11870328	rs9914746	rs202128	rs16950751	rs202127	rs202124	rs202123
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	rs202122	rs8082027	rs17590785	rs202121	rs202120	rs202119	rs202118

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	rs12940120	rs203065	rs203066	rs12601939	rs11653979	rs203067	rs11658752
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	rs203073	rs203075	rs203076	rs9890463	rs9899507	rs203079	rs203080
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	rs9895834	rs203084	rs203087	rs7225987	rs203089	rs203090	rs203092
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	rs203093	rs203094	rs203095	rs203096	rs69178	rs4094323	rs169388
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	rs4141124	rs203104	rs7225947	rs9907586	rs183248	rs203105	rs203004
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	rs203005	rs203007	rs12386069	rs10514990	rs203008	rs203009	rs203010
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	rs203011	rs9906604	rs203013	rs203014	rs1501269	rs9901489	rs10514991
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	rs16950872	rs203016	rs203017	rs169385	rs9896830	rs203018	rs203020
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	rs12940614	rs203022	rs7502229	rs203025	rs203026	rs11871480	rs6504753
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	rs6504754	rs11651180	rs203052	rs203053	rs4141125	rs740062	rs740858
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	rs203056	rs2191413	rs12603762	rs203058	rs12451297	rs203059	rs169386
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	rs203043	rs203044	rs203045	rs385940	rs4262991	rs1501252	rs7215008
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	rs203046	rs6504755	rs203047	rs8081321	rs7225549	rs996379	rs203048

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	rs203051	rs9903073	rs2319631	rs12325844	rs9910938	rs12946911	rs8069910
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	rs12602734	rs2191400	rs11652898	rs8076677	rs11079989	rs9895521	
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	rs9906815	rs9893317	rs9902317	rs9903361	rs4556834	rs9889332	rs9910452
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	rs12453099	rs12601384	rs16951004	rs1503060	rs2221331	rs1542907	
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	rs12051872	rs12051546	rs10514992	rs8072507	rs4566218	rs6504758	
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	rs1027679	rs12937546	rs4362437	rs996346	rs1393731	rs9898442	rs2938133
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	rs9902514	rs1503050	rs1503051	rs10515000	rs11869749	rs8076676	rs1875674
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	rs2319989	rs1492201	rs9897475	rs1388730	rs1492198	rs9901790	rs9904661
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	rs2452222	rs2452223	rs1388728	rs12946442	rs7220350	rs2467482	rs2467483
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	rs2467484	rs902770	rs883737	rs2087742	rs2087741	rs902769	rs870045
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	rs11870288	rs7216414	rs7221085	rs10515024	rs7221266	rs11867961	rs866976
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	rs9900426	rs9906286	rs4516274	rs9914353	rs12952462	rs9896562	rs12601609
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	rs2877392	rs9889611	rs2331500	rs9913419	rs16952066	rs4794389	rs16952070
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	rs16953865	rs9674792	rs9901175	rs2331865	rs4566221	rs12946461	rs4794470
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	rs7215562	rs2331878	rs7219742	rs11871887	rs16953883	rs16953884	
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	rs12451457	rs12603921	rs9915338	rs11654487	rs4283265	rs9897039	
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	rs16953922	rs9906958	rs16953923	rs4306565	rs12602488	rs9913928	
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	rs12942489	rs12942314	rs11079105	rs12601165	rs9674910	rs9674925	
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	rs9911826	rs1899660	rs4455025	rs6504921	rs991156	rs7218435	rs10468501
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	rs10468502	rs4794516	rs9303354	rs9897614	rs1899662	rs1443497	rs7502151
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	rs7502152	rs16954723	rs1443496	rs1443495	rs1443494	rs1561979	rs1561977
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	rs2120292	rs3948169	rs2197267	rs1158261	rs4794519	rs9894172	rs3919720
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	rs10468505	rs1530382	rs13342522	rs1443493	rs10468538	rs4794520	
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	rs16954908	rs10468512	rs7211119	rs7210585	rs10468548	rs16954924	
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	rs11079157	rs9891716	rs9891134	rs1477141	rs867956	rs884206	rs12600920
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	rs8073909	rs16958126	rs7214294	rs950608	rs950607	rs9789042	rs7225872
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	rs16958138	rs9902023	rs7223919	rs9911796	rs6503800	rs6503801	rs6503802
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	rs16958146	rs16958149	rs16958155	rs7215653	rs4794714	rs7216963	
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	rs10515137	rs17761226	rs9912288	rs1815198	rs4341799	rs4528641	
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	rs16958190	rs4794716	rs16958191	rs868740	rs9907152	rs13353194	rs3803757
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	rs11654429	rs4794717	rs9895523	rs7214706	rs9904236	rs4794718	rs6503806
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	rs8071867	rs11079287	rs2280713	rs9894487	rs2332902	rs12453840	
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	rs1534308	rs9894710	rs6503808	rs9915194	rs9896591	rs9897018	rs1534307
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	rs9892068	rs11651684	rs16958208	rs9894393	rs11655743	rs9903996	
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	rs792393	rs792392	rs16958244	rs792391	rs16958250	rs16958255	rs7226136
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	rs17834098	rs17221133	rs1982272	rs1982270	rs1982269	rs792365	rs792364
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	rs17834277	rs10852999	rs12603207	rs10853000	rs11079300	rs11652711	
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	rs3809722	rs16943339	rs7214892	rs6503891	rs12948746	rs12940733	
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	rs11656413	rs9898200	rs11657121	rs7222388	rs8080071	rs4932691	rs2108434
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	rs12709430	rs1987693					
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	rs1421034	rs1819911	rs8078696	rs11651568	rs7502798	rs9989482	rs9889223
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	rs4791005	rs12943286	rs4791004	rs4791003	rs6504477	rs7223743	rs7209184
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	rs16960477	rs6504485	rs9905988	rs1019105	rs16960478	rs16960481	
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	rs7221048	rs872719	rs2363838	rs740558	rs740557	rs740556	rs8070371
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	rs2108823	rs2108822	rs2159211	rs12948055	rs9913820	rs9892547	rs9892388
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	rs8068558	rs8073568	rs9908482	rs9903876	rs8067363	rs8067446	rs9891520
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	rs9891840	rs7221557	rs16960635	rs8076238	rs8076243	rs12601957	rs6504491
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	rs10512514	rs8080100	rs2302669	rs9903264	rs16960718	rs12185246	
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	rs7214847	rs7214463	rs16960725	rs11652606	rs8078002	rs11872059	
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	rs11867328	rs11870490	rs9897693	rs4408579	rs12325820	rs16960829	
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	rs9903680	rs7221926	rs11079690	rs12601131	rs7207020	rs7208394	rs7207190
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	rs2949925	rs2949926	rs2916142	rs2916148	rs8075569	rs8075456	rs2009046
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	rs4791285	rs7224073	rs7210323	rs7209236	rs2949928	rs7209778	rs11657188
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	rs2218350	rs9892535	rs991209	rs991210	rs4246431	rs1373066	rs4147998

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	rs4968971	rs8077941	rs8074603	rs8074769	rs12949264	rs11651365	rs7503035
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	rs16973416	rs4968972	rs8076099	rs4968824	rs4968973	rs4968826	rs8066738
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	rs8068204	rs12952511	rs12945133	rs12945184	rs7211979	rs4147997	
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	rs3744494	rs3744495	rs3744496	rs11653438	rs4147996	rs1373068	rs1373067
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	rs6501851	rs9302995	rs7209220	rs4147994	rs4147993	rs4147992	rs16973424
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	rs9907353	rs16973430	rs4147989	rs7221939	rs4147988	rs12150510	
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	rs12149992	rs4147983	rs9893781	rs6501870	rs12149981	rs4147982	rs4147981
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	rs6501873	rs7212686	rs1344213	rs767690	rs4147980	rs4147979	rs4147978
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	rs4147977	rs4147976	rs4147975	rs4147973	rs11656365	rs3826430	rs16973446
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	rs4147968	rs10438702	rs9893051	rs9909773	rs10438703	rs4147967	
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	rs10512521	rs4147962	rs4147961	rs4147957	rs4147956	rs887380	rs4147953
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	rs4147951	rs8065139	rs4147948	rs7208717	rs4147944	rs7502027	rs9897075
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	rs12944603	rs4968979	rs12600702	rs17745936	rs12945526	rs12936488	
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	rs12950368	rs8076973	rs6501916	rs8070045	rs7210891	rs10852773	
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	rs10852774	rs9905330	rs7207730	rs7207748	rs9896819	rs1121077	rs8080973
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	rs4510085	rs1465276	rs4485431	rs6501919	rs1465274	rs1558290	rs2364310
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	rs8080055	rs8076776	rs9891295	rs1558289	rs6501920	rs764425	rs1344055
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	rs764426	rs8067334	rs8072153	rs8069055	rs9908650	rs8072810	rs8077504
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	rs2191213	rs11453	rs11077858	rs11077859	rs11077860	rs12452893	rs9893173
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	rs16973495	rs16973499	rs1984722	rs2159435	rs11650611	rs7217379	
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	rs17684521	rs4567789	rs16973511	rs10512522	rs7221250	rs6501944	
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	rs11871766	rs8182351	rs1001239	rs9899818	rs16973521	rs6501947	rs8066758
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	rs732011	rs12103660	rs10852783	rs11650025	rs12103736	rs7208425	
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	rs9895065	rs4968833	rs9900860	rs12936642	rs2302132	rs2302133	rs2302134
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	rs12162136	rs740516	rs740517	rs758255	rs9892445	rs7209351	rs8077252
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	rs16973562	rs12602396	rs12453921	rs11077942	rs11656320	rs1860120	
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	rs6502001	rs16973567	rs7214079	rs1468514	rs6502002	rs2364315	rs4141177

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	rs1974575	rs9282553	rs9889289	rs9895546	rs736528	rs2058128	rs11659091
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	rs7504026	rs9282554	rs5025273	rs9914407	rs10512524	rs10512525	rs8080508
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	rs16973609	rs8067965	rs997781	rs8081118	rs8064595	rs4603621	rs4968838
NA06985	03	01	00	03	02	02	02
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	rs11652530	rs7216483	rs12940298	rs12939282	rs2190900	rs2041171	
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	rs7221611	rs1558167	rs12943387	rs7218970	rs12936013	rs8080693	rs8080863
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	rs740520	rs8064583	rs12602356	rs8068746	rs4968846	rs1024598	rs4968849
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	rs17776227	rs12602816	rs16973722	rs11077403	rs8068468	rs8070232	
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	rs9894141	rs531586	rs564426	rs9898003	rs1550828	rs4553686	rs7223000
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	rs12450743	rs481876	rs12450952	rs568536	rs476677	rs9912134	rs534645
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	rs1011548	rs4310935	rs4310936	rs494946	rs509830	rs568354	rs16973895
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	rs11652207	rs4968854	rs520389	rs11871086	rs16973904	rs16973905	
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	rs553828	rs17687227	rs9901702	rs8076096	rs494251	rs7219546	rs11653314
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	rs1310683	rs7208773	rs1642220	rs477031	rs333920	rs574424	rs7212671
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	rs333917	rs333916	rs333913	rs11869265	rs9914009	rs1662694	rs560271
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	rs7225846	rs817101	rs550879	rs474246	rs475278	rs8079690	rs11650879
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	rs2592210	rs2034100	rs2592207	rs1963458	rs11652341	rs707248	rs817550
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	rs7224115	rs1548444	rs7222898	rs16974045	rs9302900	rs8078890	rs8077944
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	rs2715832	rs2715833	rs2716195	rs16974160	rs2715834	rs8067307	rs8072070
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	rs16974219	rs7209518	rs7210308	rs6501332	rs9911351	rs12051746	rs8064275
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	rs2947863	rs2009910	rs2188782	rs8074895	rs2905443	rs2905442	rs763698
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	rs2947862	rs10445226	rs10445206	rs10445207	rs9903306	rs2947887	
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	rs16974253	rs2905439	rs1121381	rs2428347	rs7214397	rs17762511	rs7224395
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	rs6501341	rs16974265	rs4381637	rs4381638	rs12937601	rs17762595	
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	rs2188698	rs12949316	rs2947879	rs1157845	rs12942463	rs16974282	

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	rs2905363	rs17689719	rs2905362	rs7209163	rs7214418	rs2214169	rs12944247
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	rs2157988	rs2051734	rs2285572	rs10512528	rs2947872	rs16974315	
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	rs12951576	rs9895917	rs8182257	rs2947871	rs2947870	rs1858969	rs2947869
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	rs1119753	rs1119752	rs16966924	rs2947868	rs2012628	rs2012061	rs2947883
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	rs12601748	rs1967299	rs1859426	rs12947839	rs8078070	rs11077460	rs956255
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	rs4488494	rs12939860	rs7222686	rs16974335	rs16974337	rs10445208	
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	rs8071754	rs8070733	rs2189755	rs4141190	rs4141192	rs8077406	rs2107606
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	rs4968863	rs1473120	rs2057823	rs2057822	rs16974356	rs12452498	
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	rs11868063	rs757531	rs757530	rs11652982	rs11654389	rs8066785	rs8066367
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	rs7209503	rs4968867	rs9891669	rs12450634	rs12451817	rs8074145	rs9901947
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	rs17690625	rs8077452	rs12941653	rs997095	rs16974368	rs8068410	rs8068479
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	rs8074261	rs11077463	rs9913873	rs7210514	rs9911208	rs12600841	rs8068581
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	rs12150482	rs4561512	rs997284	rs16974375	rs11870477	rs8072462	rs1468322
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	rs1987598	rs970561	rs12602917	rs16974392	rs7212316	rs7213660	rs6501346
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	rs8068469	rs9302904	rs9898541	rs9898758	rs11871026	rs10512530	rs7222397
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	rs11650517	rs12950334	rs12936002	rs12943426	rs7214110	rs12943751	
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	rs9892141	rs9909427	rs9646390	rs8080719	rs8068409	rs11077467	rs714768
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	rs180142	rs180139	rs180138	rs180135	rs8067741	rs8077328	rs180134
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	rs16974642	rs7220016	rs4322711	rs9911187	rs9890562	rs180106	rs714272
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	rs7211227	rs7350969	rs7350970	rs13342174	rs180103	rs180102	rs16974658
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	rs16974662	rs13342669	rs13342680	rs8066354	rs7222428	rs2106611	rs180100
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	rs9904038	rs180072	rs9913799	rs12948136	rs180068	rs180067	rs180066
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	rs9907896	rs180052	rs12453357	rs8080450	rs9895890	rs8079591	rs17699266
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	rs17715333	rs312725	rs312726	rs312727	rs11077488	rs6501384	rs411079
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	rs16975529	rs9901891	rs7208007	rs312707	rs8080802	rs7225313	rs7224535
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	rs11868369	rs17715938	rs312739	rs16975549	rs16975551	rs11653587	
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	rs7207089	rs312740	rs312741	rs17716015	rs312742	rs17716021	rs312743
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	rs7209774	rs16975575	rs8072128	rs312688	rs11653931	rs312690	rs10775360
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	rs17175927	rs8064240	rs312747	rs16975594	rs16975596	rs312749	rs12603464
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	rs312762	rs312763	rs312764	rs312768	rs3915641	rs312770	rs9911531
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	rs312771	rs312772	rs16975645	rs16975648	rs312773	rs3914424	rs141155
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	rs10153305	rs9911312	rs16975672	rs3848452	rs3848453	rs3891525	rs9906661
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	rs9916856	rs16975768	rs17778568	rs12935930	rs1396516	rs4141161	
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	rs7215252	rs6501392	rs7207861	rs16975797	rs2109232	rs16975800	rs7503022
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	rs4793395	rs13343268	rs9894256	rs11077499	rs9910818	rs12150602	
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	rs12453901	rs9916463	rs9915486	rs4793397	rs7219669	rs11651670	
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	rs1825669	rs1825670	rs8077690	rs12602288	rs718951	rs11654235	rs11077506
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	rs11869430	rs9916886	rs552208	rs547736	rs8064352	rs8065442	rs687023
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	rs686979	rs12452718	rs16969481	rs491914	rs491682	rs490997	rs11650966
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	rs11650151	rs535136	rs745464	rs510629	rs510599	rs600212	rs3803742
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	rs598755	rs525503	rs499223	rs582096	rs1025934	rs8066852	rs12452917
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	rs2411042	rs736100	rs16969506	rs12939833	rs8064958	rs894946	rs894945
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	rs4788979	rs7225999	rs17533156	rs485018	rs9914520	rs7222371	rs8079872
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	rs9889315	rs11869453	rs884204	rs11655435	rs9909177	rs9902891	rs8079708
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	rs7208502	rs12603215	rs9911171	rs1471788	rs12948054	rs7211095	rs9894952
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	rs9894978	rs9895186	rs4062178	rs11867785	rs2315924	rs9652896	rs8065598
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	rs9898952	rs12948040	rs11150739	rs12939413	rs9900445	rs8081444	
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	rs12450876	rs12453034	rs8068064	rs1564868	rs4889888	rs12936287	
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	rs7211818	rs12453718	rs12944407	rs6565478	rs4889889	rs9896820	rs2315923
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	rs7503911	rs2315922	rs9913162	rs7359591	rs8072229	rs8072355	rs7359577
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	rs8072836	rs9899843	rs12941958	rs8069295	rs12951944	rs12941790	
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	rs9902376	rs9896771	rs12946115	rs12603074	rs10401045	rs2315921	
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	rs9915378	rs9891160	rs12940631	rs7503394	rs6565479	rs7406799	rs4889786
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	rs9674559	rs12941240	rs3764371	rs7213696	rs4602089	rs12942526	
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	rs12601089	rs9899782	rs4396582	rs9902639	rs4969230	rs3898096	rs2291359
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	rs4969235	rs9895584	rs7217825	rs12950541	rs7223405	rs8078829	rs8080789
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	rs12450464	rs7215564	rs9913009	rs10871488	rs9901049	rs9900687	
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	rs12943552	rs9915518	rs7213638	rs9890313	rs9891139	rs9894401	rs9897830
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	rs4969411	rs12452243	rs8064506	rs7221178	rs8077901	rs7208971	rs7208536

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	rs2672903	rs7212411	rs8065995	rs8065459	rs7212127	rs2138125	rs2048753
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	rs11653207	rs9908195	rs9911574	rs12103708	rs2672901	rs9895174	rs9899844
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	rs3829572	rs3751945	rs2589156	rs2333988	rs7217580	rs2248502	rs2589155
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	rs9908270	rs2271602	rs2271603	rs2271604	rs2271606	rs7212666	rs3817292
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	rs8078438	rs7219221	rs4969237	rs11869133	rs7207052	rs6565524	rs7208310
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	rs8076150	rs7405605	rs7406859	rs4078371	rs9903882	rs9912384	rs7405454
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	rs8078866	rs11077951	rs12942128	rs7215871	rs12449872	rs12947014	

NA06985	03	01	03	02	01	01	
	rs11868453	rs6502026	rs9747676	rs12952892	rs8065638	rs4986144	rs9303015
NA06985	01	02	02	03	01	01	03
	rs9303016	rs7209936	rs4986137	rs12936476	rs4986089	rs11650407	
NA06985	03	02	03	03	02	03	
	rs10775371	rs1551628	rs4986090	rs6416855	rs9898649	rs9890216	rs7503536
NA06985	02	02	03	02	03	03	02
	rs7503605	rs7503408	rs9891371	rs7405583	rs7405607	rs12603409	rs9905027
NA06985	02	02	03	02	02	01	02
	rs12603456	rs9906258	rs9907989	rs7214627	rs12943585	rs7406895	rs7406865
NA06985	01	02	02	02	03	03	02
	rs9893833	rs4986146	rs11870793	rs11870684	rs11656634	rs9911294	
NA06985	03	03	02	03	02	02	
	rs9912207	rs9910113	rs9911830	rs731447	rs9916813	rs9897919	rs6502033
NA06985	02	02	02	03	03	03	03
	rs7406848	rs12936735	rs7226076	rs7221410	rs7221423	rs12601298	rs9901757
NA06985	02	03	02	01	02	02	02
	rs9915799	rs751409	rs8068883	rs11658065	rs12939139	rs7405903	rs2168935
NA06985	02	02	02	01	02	03	01
	rs9893868	rs12603171	rs12946056	rs9892565	rs11650383	rs9899748	
NA06985	02	01	03	01	01	03	
	rs9899884	rs7213238	rs11868851	rs9915904	rs898099	rs7212102	rs12948347
NA06985	03	03	01	01	01	02	02
	rs9907767	rs7208987	rs7222550	rs9915460	rs7210722	rs9899855	rs9897674
NA06985	01	03	01	03	01	01	01
	rs7406067	rs8072951	rs8078193	rs4986140	rs898105	rs7405957	rs8081673
NA06985	02	01	01	02	01	02	01
	rs16940609	rs9889817	rs9890099	rs11656152	rs1471196	rs8065396	rs9908845
NA06985	01	03	02	01	01	03	02
	rs9894730	rs9903292	rs9903731	rs967825	rs9890149	rs12453381	rs9908243
NA06985	01	02	02	01	02	03	03
	rs7224733	rs10852789	rs1143006	rs7406119	rs9890743	rs7405834	rs6502040
NA06985	01	01	03	01	03	03	02
	rs3935099	rs12103530	rs4986100	rs4986075	rs4986103	rs7503665	rs7503547
NA06985	01	03	03	01	03	01	01
	rs9893153	rs4073038	rs9911217	rs12602181	rs8072482	rs11652770	rs9896583
NA06985	03	00	02	02	02	02	03
	rs8072895	rs6416856	rs7501672	rs9675039	rs6502043	rs10432005	rs12449903
NA06985	02	03	03	02	02	01	03
	rs7406561	rs8077967	rs7502145	rs4986109			
NA06985	01	02	01	02			

[reached getopt("max.print") -- omitted 89 rows]

For a realistic demonstration, we use the subset of these loci that are present on the Affy 6.0 SNP array.

```
> data(gw6.rs_17)
> g17SM = g17SM[, intersect(colnames(g17SM), gw6.rs_17)]
> dim(g17SM)
```

```
[1]    90 20359
```

The base data were used to create a set of rules allowing imputation from genotypes in the sparse set to the richer set. Some rules involve only a single locus, some as many as 4. The construction of rules involves tuning of modeling parameters. See `snp.imputation` in `snpStats` for details.

```
> if (!exists("rules_6.0_1kg_17")) data(rules_6.0_1kg_17)
> rules_6.0_1kg_17[1:5,]
```

```
chr17:1869 ~ rs9915268+rs11247571+rs9895105+rs6598837 (MAF = 0.06666667, R-squared =
chr17:2220 ~ rs4790867+rs10454094+rs2586238+rs7207284 (MAF = 0.125, R-squared = 0.706
chr17:6689 ~ rs4424950+rs4790867+rs7225087+rs11658347 (MAF = 0.125, R-squared = 0.592
rs34663111 ~ rs11658079+rs1609550+rs4985594+rs9788983 (MAF = 0.1166667, R-squared = 0
rs62054999 ~ rs17609440+rs2740351+rs2589492+rs16956017 (MAF = 0.125, R-squared = 0.26
```

The summary of rules shows the degree of association between the predictors and predictands in terms of R^2 . Many potential targets are not imputed.

```
> summary(rules_6.0_1kg_17)
```

	SNPs used				
R-squared	1 tags	2 tags	3 tags	4 tags	<NA>
[0,0.1)	655	785	276	56	0
[0.1,0.2)	7	664	926	868	0
[0.2,0.3)	0	158	916	3054	0
[0.3,0.4)	0	28	411	5104	0
[0.4,0.5)	0	20	203	6365	0
[0.5,0.6)	0	21	121	6052	0
[0.6,0.7)	0	29	104	5623	0
[0.7,0.8)	0	54	108	6330	0
[0.8,0.9)	0	141	225	9506	0
[0.9,0.95)	652	700	572	8056	0
[0.95,0.99)	7274	1689	1388	6158	0
[0.99,1]	33660	1353	2326	10152	0
<NA>	0	0	0	0	53601

The overlap between the 6.0-resident g17SM loci and the catalog is

```
> length(intersect(colnames(g17SM), mcols(ebicat37)$SNPS))
```

```
[1] 184
```

The new expected B allele counts are

```
> exg17 = impute.snps(rules_6.0_1kg_17, g17SM)
```

The number of new loci that coincide with risk loci in the catalog is:

```
> length(intersect(colnames(exg17), mcols(ebicat37)$SNPS))
```

```
[1] 295
```

6 Formal management of trait vocabularies

6.1 Diseases: Disease Ontology

The Disease Ontology project [?] formalizes a vocabulary for human diseases. Bioconductor's DO.db package is a curated representation.

```
> library(DO.db)
> DO()
```

Quality control information for DO:

This package has the following mappings:

```
DOANCESTOR has 6569 mapped keys (of 6570 keys)
DOCHILDREN has 1811 mapped keys (of 6570 keys)
DOOBSOLETE has 2374 mapped keys (of 2374 keys)
DOOFFSPRING has 1811 mapped keys (of 6570 keys)
DOPARENTS has 6569 mapped keys (of 6570 keys)
DOTERM has 6570 mapped keys (of 6570 keys)
```

Additional Information about this package:

```
DB schema: DO_DB
DB schema version: 1.0
```

All tokens of the ontology are acquired via:


```
> alltob = unlist(mget(mappedkeys(DOTERM), DOTERM))
> allt = sapply(alltob, Term)
> allt[1:5]
```

```

          DOID:0001816          DOID:0002116
    "angiosarcoma"          "pterygium"
          DOID:0014667          DOID:0050004
"disease of metabolism" "seminal vesicle acute gonorrhea"
          DOID:0050012
    "chikungunya"
```

Direct mapping from disease trait tokens in the catalog to this vocabulary succeeds for a modest proportion of records.

```
> cattra = mcols(ebicat37)$Disease.Trait
> mat = match(tolower(cattra), tolower(allt))
> catDO = names(allt)[mat]
> na.omit(catDO)[1:50]
```

```
[1] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
[26] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
```

```
> mean(is.na(catDO))
```

```
[1] NaN
```

Approximate matching of unmatched tokens can proceed by various routes. Some traits are not diseases, and will not be mappable using Disease Ontology. However, consider

```
> unique(cattra[is.na(catDO)])[1:20]
```

```
NULL
```

```
> nomatch = cattra[is.na(catDO)]
> unique(nomatch)[1:5]
```

```
NULL
```

Manual searching shows that a number of these have very close matches.

6.2 Other phenotypic traits: Human Phenotype Ontology

Bioconductor does not possess an annotation package for phenotype ontology, but the standardized OBO format can be parsed and modeled into a graph.

```
> hpobo = gzfile(dir(system.file("obo", package="gwascatalog"), pattern="hpo", full=TRUE))
> HPOgraph = obo2graphNEL(hpobo)
> close(hpobo)
```

The phenotypic terms are obtained via:

```
> requireNamespace("graph")
> hpoterms = unlist(graph::nodeData(HPOgraph, graph::nodes(HPOgraph), "name"))
> hpoterms[1:10]
```

```
HP:0000001
  "All"
HP:0000002
  "Abnormality of body height"
HP:0000003
  "Multicystic kidney dysplasia"
HP:0000004
  "Onset and clinical course"
HP:0000005
  "Mode of inheritance"
HP:0000006
  "Autosomal dominant inheritance"
HP:0000007
  "Autosomal recessive inheritance"
HP:0000008
  "Abnormality of female internal genitalia"
HP:0000009
  "Functional abnormality of the bladder"
HP:0000010
  "Recurrent urinary tract infections"
```

Exact hits to unmatched GWAS catalog traits exist:

```
> intersect(tolower(nomatch), tolower(hpoterms))

character(0)
```

More work on formalization of trait terms is underway.

7 CADD scores

Kircher et al. (?) define combined annotation-dependent depletion scores measuring variant pathogenicity in an integrative way. Small requests to bind scores for SNV to GRanges can be resolved through HTTP; large requests can be carried out on a local tabix-indexed selection from their archive.

```
> g3 = as(ebicat37, "GRanges")
> bg3 = bindcadd_snv( g3[which(seqnames(g3)=="chr3")][1:20] )
> inds = ncol(mcols(bg3))
> bg3[, (inds-3):inds]
```

This requires cooperation of network interface and server, so we don't evaluate in vignette build but on 1 Apr 2014 the response was:

GRanges with 20 ranges and 4 metadata columns:

	seqnames	ranges	strand		Ref	Alt
	<Rle>	<IRanges>	<Rle>		<character>	<character>
[1]	3	[109789570, 109789570]	*		A	G
[2]	3	[25922285, 25922285]	*		G	A
[3]	3	[109529550, 109529550]	*		T	C
[4]	3	[175055759, 175055759]	*		T	G
[5]	3	[191912870, 191912870]	*		C	T
...
[16]	3	[187716886, 187716886]	*		A	G
[17]	3	[160820524, 160820524]	*		G	C
[18]	3	[169518455, 169518455]	*		T	C
[19]	3	[179172979, 179172979]	*		G	T
[20]	3	[171785168, 171785168]	*		G	C
	CScore	PHRED				
	<numeric>	<numeric>				
[1]	-0.182763	3.110				
[2]	-0.289708	2.616				
[3]	0.225373	5.216				
[4]	-0.205689	3.003				
[5]	-0.172189	3.161				
...				
[16]	-0.019710	3.913				
[17]	-0.375183	2.235				
[18]	-0.695270	0.987				
[19]	-0.441673	1.949				
[20]	0.231972	5.252				

```

seqlengths:
      1          2          3          4 ...          21          22          X
249250621 243199373 198022430 191154276 ... 48129895 51304566 155270560

```

8 Appendix: Adequacy of location annotation

A basic question concerning the use of archived SNP identifiers is durability of the association between asserted location and SNP identifier. The `chklocs` function uses a current Bioconductor `SNPlocs` package to check this.

For example, to verify that locations asserted on chromosome 20 agree between the Bioconductor dbSNP image and the gwas catalog,

```

> if ("SNPlocs.Hsapiens.dbSNP144.GRCh37" %in% installed.packages()[,1]) {
+   library(SNPlocs.Hsapiens.dbSNP144.GRCh37)
+   chklocs("20", ebicat37)
+ }

```

```
[1] TRUE
```

This is not a fast procedure. As of March 2017, small numbers of catalog locations are found discrepant with dbSNP for GRCh37.