

# *gwascat*: structuring and querying the NHGRI GWAS catalog

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# 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](http://www.bioconductor.org), or by suitably navigating the web pages generated with `help.start()`.

## 1.3 Illustrations: computing

Available functions are:

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

[1] "bindcadd_snv"      "chklocs"          "getRsids"
[4] "getTraits"        "gwcecx2gviz"      "ldtagr"
[7] "locs4trait"       "makeCurrentGwascat" "metadata"
[10] "node2uri"         "obo2graphNEL"     "riskyAlleleCount"
[13] "show"             "subsetByChromosome" "subsetByTraits"
[16] "topTraits"        "traitsManh"       "uri2node"
```

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.

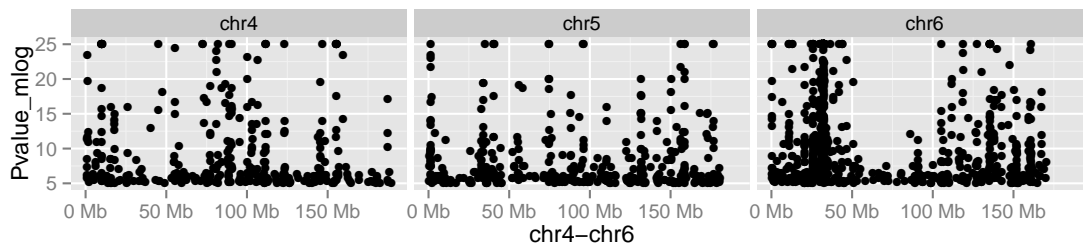
```
> gwtrunc = ebicat37
> requireNamespace("S4Vectors")
> mcols = S4Vectors::mcols
> mlpv = mcols(ebicat37)$PVALUE_MLOG
> mlpv = ifelse(mlpv > 25, 25, mlpv)
> mcols(gwtrunc)$PVALUE_MLOG = mlpv
> library(GenomeInfoDb)
> seqlevelsStyle(gwtrunc) = "UCSC"
```

```

> gwlit = gwtrunc[ which(as.character(seqnames(gwtrunc)) %in% c("chr4", "chr5", "chr6
> library(ggbio)
> mlpv = mcols(gwlit)$PVALUE_MLOG
> mlpv = ifelse(mlpv > 25, 25, mlpv)
> mcols(gwlit)$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](http://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(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.

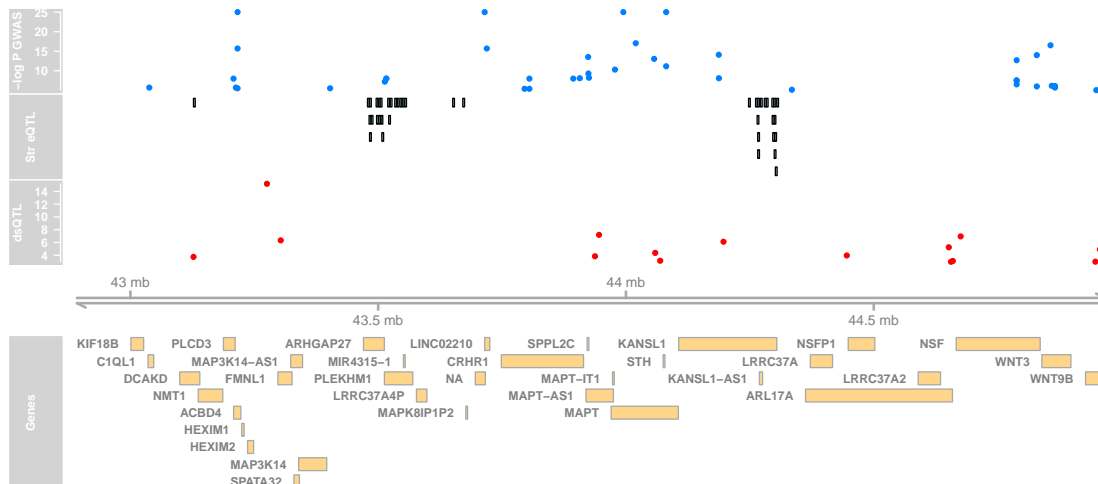
```
> g2 = GRanges(seqnames="chr17", IRanges(start=4.3e7, width=2e6))
> seqlevelsStyle(ebicat37) = "UCSC"
> basic = gwcx2gviz(basegr = ebicat37, contextGR=g2, plot.it=FALSE)
```

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

```
> c17ts = c17tg[ which(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))
> 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  $\pm 500$ 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),]
> 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  
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chr17:78571206 rs11077955 rs9909060 rs9907872 rs9916517 rs60513657  
chr17:78572385 rs7406446 chr17:78572503 rs7406907 chr17:78572920  
rs6502034 rs898099 rs35759359 chr17:78574546 rs34441946 chr17:78574608  
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rs12948347 chr17:78577745 chr17:78577746 rs7208987 rs7222550 rs61544186

rs35749531 rs34185141 rs7210722 rs34614760 chr17:78580153 rs9899855  
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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
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      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
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      rs11649979 rs12938802 rs11650641 rs1138504 rs11150884 rs9907477
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      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

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	rs7224673	rs11656204	rs8077660	rs8071160	rs12944258	rs8081951	
NA06985	00	02	01	00	01	03	
	rs12944539	rs12944553	rs12951865	rs12941613	rs12951939	rs2048242	
NA06985	01	01	01	03	01	02	
	rs6598837	rs8078764	rs12943748	rs8069950	rs8066083	rs7406992	rs7222776

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           rs12939540 rs16956912 rs11658300 rs11650431 rs17842067 rs12936936  
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           rs6598840 rs11869789 rs12936197 rs12940087 rs11247568 rs4968132  
 NA06985           02           02           02           02           02           01  
           rs12939584 rs7223833 rs2048241 rs2663350 rs11247570 rs7221017 rs2586284  
 NA06985           02           03           03           03           02           01           01  
           rs17693812 rs10902640 rs2586281 rs2457274 rs2457273 rs9674750  
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           rs12941559 rs12941561 rs12601025 rs7219328 rs333635 rs333634 rs333631  
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           rs9909712 rs333629 rs333640 rs333639 rs3853817 rs7210565 rs7223906  
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           rs168000 rs9902272 rs13353187 rs2663330 rs2586274 rs2663333 rs2586278  
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           rs2586279 rs2244795 rs2244811 rs333624 rs231673 rs11657457 rs333625  
 NA06985           01           01           01           03           03           01           01  
           rs11654885 rs11658735 rs333656 rs333654 rs2586238 rs9896110 rs333646  
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           rs9737 rs333643 rs3744753 rs3744755 rs11247571 rs1054083 rs3263  
 NA06985           03           02           02           02           02           03           02  
           rs2586306 rs2241931 rs2663342 rs2241926 rs2241925 rs12601892 rs333652  
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           rs2586254 rs2586255 rs11658239 rs2586256 rs2586257 rs2663336 rs2586258  
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           rs2663335 rs2663329 rs12602025 rs7225523 rs7210398 rs16957459 rs7210794  
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           rs7218427 rs9912878 rs2663327 rs9902416 rs11247575 rs12453361 rs8069477  
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           rs2247953 rs2247955 rs11247576 rs11657949 rs2248096 rs16957565  
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           rs12600870 rs12601914 rs2921134 rs2120233 rs2249849 rs2259992 rs7502628  
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           rs1807333 rs894633 rs2260052 rs2260057 rs2376590 rs2376591 rs2260059  
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           rs2376592 rs2376593 rs2376594 rs2376595 rs12602266 rs12602332  
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           rs12600849 rs7209307 rs12602761 rs2261081 rs7210401 rs2257540 rs2010224

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	rs2257222	rs11653072	rs11653269	rs2589492	rs2304958	rs2304959	rs9912632
NA06985	02	02	01	03	01	01	03
	rs2304961	rs2264055	rs2257797	rs2044193	rs2044194	rs2262150	rs2262155
NA06985	03	01	01	01	03	02	02
	rs2262156	rs2258173	rs11655229	rs11653959	rs2258885	rs7220611	
NA06985	02	02	02	02	03	03	
	rs11656297	rs920750	rs12601241	rs3786066	rs2586239	rs2586240	rs3786068
NA06985	03	03	03	02	03	02	01
	rs2257468	rs2304962	rs12600449	rs17622751	rs9891196	rs4968157	rs2586246
NA06985	01	01	01	03	01	01	01
	rs4510082	rs2260606	rs2260608	rs2260717	rs2289632	rs2257526	rs17695897
NA06985	01	03	01	01	02	02	01
	rs2260849	rs2260879	rs12600347	rs4968159	rs2260882	rs2257666	rs7210584
NA06985	02	03	03	01	02	01	03
	rs873168	rs2257532	rs4968081	rs8078396	rs9905944	rs12450029	rs11247577
NA06985	02	01	02	01	03	03	02
	rs11871392	rs2257474	rs2277686	rs2277687	rs12942046	rs2589487	rs4968161
NA06985	03	03	01	03	02	02	01
	rs2028629	rs2258130	rs9914967	rs2258134	rs11652278	rs920749	rs7218220
NA06985	02	03	02	01	03	03	01
	rs2165857	rs7217439	rs9892597	rs2258026	rs3813437	rs4600515	rs2440743
NA06985	01	02	03	03	02	01	02
	rs12939615	rs2586268	rs9747624	rs2586262	rs9747439	rs12949526	rs7207980
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	rs8070222	rs7220097	rs2264057	rs17623512	rs2258694	rs1373101	rs2258746
NA06985	03	01	01	02	03	02	03
	rs2258664	rs1808935	rs2258780	rs2251575	rs7406978	rs9916862	rs2440769
NA06985	02	02	02	03	02	03	01
	rs2440766	rs10048207	rs9905166	rs9901107	rs2589500	rs12452256	rs7406197
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	rs2245794	rs9903646	rs2589482	rs2083811	rs9903505	rs9900680	rs7210886
NA06985	03	02	03	01	01	01	03
	rs12325789	rs7207116	rs12949429	rs12937155	rs11655015	rs16959176	
NA06985	01	01	01	01	02	03	
	rs9899266	rs8068519	rs16959201	rs11654587	rs9916523	rs11650418	
NA06985	01	02	01	01	01	01	
	rs4968173	rs4968174	rs11651840	rs3813441	rs3813442	rs3813443	rs3813444
NA06985	01	02	01	01	03	03	03
	rs3813445	rs3813446	rs12940480	rs12051626	rs8068232	rs7211354	
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	rs16959359	rs12936857	rs7503538	rs3813440	rs4474747	rs9904973	

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           rs11868595 rs3892291 rs12949506 rs8081687 rs8071117 rs4417598  
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           rs10521110 rs8069303 rs8080506 rs4968175 rs12450044 rs8075820 rs4581759  
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           rs4636972 rs7213962 rs7214287 rs4473259 rs9894451 rs4968176 rs11651083  
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           rs11658347 rs11247583 rs11656031 rs4968185 rs9893026 rs11650714  
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           rs9894771 rs16943416 rs8070433 rs9890206 rs9890233 rs12601516  
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           rs12602997 rs11867310 rs7209568 rs16943458 rs4643388 rs9747012  
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           rs12938743 rs12939286 rs11656050 rs2101687 rs1472181 rs16944512  
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           rs7209162 rs7224935 rs7211521 rs2661720 rs12936071 rs11652378  
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           rs11650110 rs12946310 rs4024016 rs4449007 rs2639720 rs2639721 rs4024017  
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           rs12935994 rs6503055 rs9303225 rs7208333 rs12601838 rs2361572  
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           rs11656947 rs9908629 rs9891835 rs2361573 rs9906002 rs7208741 rs7212728  
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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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	rs4366768	rs7217846	rs3951818	rs4239042	rs7223617	rs7207377	rs7207532
NA06985	01	01	03	03	03	01	03
	rs4790458	rs4790125	rs4790457	rs7209963	rs12937636	rs12944853	
NA06985	03	03	03	01	03	01	
	rs12949050	rs12945764	rs12940852	rs9908013	rs4790421	rs4790420	
NA06985	01	01	01	01	03	01	
	rs4790409	rs4790408	rs7219354	rs11650689	rs9393	rs7266	rs7213824
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	rs7213104	rs8064578	rs7224258	rs8074311	rs11871309	rs11655176	rs3752826
NA06985	01	03	02	03	03	01	00
	rs7219417	rs7210877	rs7207904	rs8078073	rs7212572	rs7219635	rs7208041
NA06985	01	02	02	03	01	03	01
	rs16945532	rs9895157	rs9914542	rs7214541	rs9748126	rs9915954	rs4790338
NA06985	01	03	03	02	01	03	02
	rs8077801	rs6502267	rs12939838	rs12936636	rs9892542	rs7218847	rs4790341
NA06985	01	01	01	00	01	03	03
	rs4790082	rs16945567	rs16945571	rs17625475	rs9303097	rs8082057	
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	rs8067801	rs10521112	rs10521111	rs16945627	rs4790084	rs4790342	
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	rs11658196	rs11655548	rs9912147	rs4790347	rs12938116	rs8081326	
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	rs16945809	rs16945811	rs2131431	rs7211938	rs4790350	rs11657879	
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	rs2131432	rs9902137	rs2174891	rs9908536	rs7218564	rs12453498	rs12947461
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	rs1873827	rs12604036	rs12452627	rs11552915	rs1532976	rs7225165	
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	rs7213805	rs7213811	rs877230	rs9897348	rs9897365	rs15948	rs11652581
NA06985	03	03	03	01	01	01	03
	rs1083	rs11655449	rs8070640	rs9901197	rs8064892	rs8073032	rs1041967
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	rs11544140	rs4790436	rs9914445	rs9896988	rs12941913	rs2063187	rs9906758
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	rs12948915	rs9903534	rs7208768	rs10852857	rs16946807	rs11657524	
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	rs7217957	rs7211083	rs7504032	rs11653564	rs4258683	rs7208647	rs11651209
NA06985	01	03	01	02	01	01	02
	rs8071435	rs8071748	rs6416877	rs7212008	rs7225098	rs2302459	rs2302458

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	rs2302457	rs8072859	rs8065685	rs2286870	rs8066147	rs9898240	rs7502466
NA06985	02	01	01	01	03	03	03
	rs9303175	rs2302456	rs12452200	rs2286873	rs9903846	rs11871599	
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	rs11868634	rs2286876	rs12452780	rs7214615	rs2358973	rs7218128	rs4606774
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	rs11871984	rs11869948	rs14391	rs939562	rs1879488	rs4790157	rs11656032
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	rs17833825	rs1109303	rs7215191	rs7208369	rs8069517	rs873179	rs2240999
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	rs2286868	rs9902800	rs11652315	rs11871511	rs939563	rs11078471	
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	rs12944030	rs17474	rs2280458	rs15362	rs2277669	rs11867459	rs9675006
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	rs7216491	rs7224930	rs11078479	rs17220733	rs17220754	rs10521113	
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	rs17821228	rs17761155	rs17220777	rs17821234	rs8066973	rs8082326	
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	rs8082335	rs2270227	rs2270228	rs2270229	rs7504062	rs9303182	rs9303183
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	rs9904770	rs6502772	rs9894968	rs4790572	rs2302460	rs12600384	rs17833890
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	rs3785967	rs3785966	rs11870469	rs4790589	rs8074467	rs9895265	rs9895971
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	rs16948748	rs4299208	rs4300718	rs2241000	rs17821288	rs17821294	
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	rs9899038	rs3785964	rs6502781	rs3826462	rs13340988	rs9910870	rs13341542
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	rs7222425	rs6502793	rs1051820	rs9895731	rs2280457	rs2280456	rs7214236
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	rs11868468	rs4790653	rs4790208	rs4790658	rs9893037	rs8078582	rs8066066
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	rs4790664	rs4790666	rs4790667	rs7210368	rs12953268	rs12936338	rs876789
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	rs8073151	rs2013905	rs9898376	rs7213112	rs11658414	rs11652773	rs9894482
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	rs9911336	rs12450088	rs4423477	rs9890424	rs8064934	rs4790228	rs8069863
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	rs8070038	rs12951283	rs12951553	rs17626180	rs11652817	rs4994702	
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	rs4353527	rs9903662	rs4790708	rs9893867	rs4790232	rs5019939	rs9891989

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	rs9911948	rs9907798	rs12450869	rs4790713	rs9899989	rs11656606	rs4790237
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	rs4790238	rs9908061	rs4790715	rs12451477	rs4790717	rs9896599	rs4790720
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	rs4790724	rs17821354	rs1054541	rs1054539	rs2280461	rs4790733	rs9889287
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	rs9912776	rs3760460	rs4790250	rs8072430	rs3744644	rs7220535	rs7224583
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	rs11872036	rs2272011	rs7221629	rs2272010	rs7212294	rs2293067	rs11078552
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	rs1802491	rs16950614	rs9896403	rs9889459	rs11559306	rs1043399	rs3814969
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	rs16951071	rs11652160	rs8070091	rs11078565	rs953338	rs7503397	
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	rs17761292	rs1043391	rs7223663	rs2301593	rs9747855	rs7501840	rs9896855
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	rs7207951	rs8065368	rs9909071	rs11078584	rs10852873	rs7222066	rs4790810
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	rs8076112	rs6502892	rs11078597	rs4790814	rs1574525	rs7221974	rs9912287
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	rs8066638	rs12944376	rs7225795	rs12150338	rs7210778	rs7213134	
NA06985	03	01	03	01	03	01	
	rs11657222	rs3809871	rs3809872	rs8065251	rs12051752	rs1045794	rs8077638
NA06985	01	02	02	03	02	01	01
	rs2287322	rs3826539	rs2070862	rs2070863	rs4790285	rs2277695	rs3976
NA06985	01	02	01	01	03	02	01
	rs4790821	rs11653792	rs8074026	rs1057335	rs1057355	rs17761310	rs8075977
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	rs9913583	rs12939927	rs7209712	rs12450371	rs6502953	rs12325945	
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	rs12325714	rs11658342	rs1136287	rs12603825	rs8074840	rs4511575	
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	rs4274474	rs4274475	rs12103559	rs5008943	rs12453107	rs1894286	rs9916032
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	rs2269344	rs3891224	rs3891226	rs2071021	rs6828	rs9889773	rs9809



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	rs11867211	rs7224977	rs7216863	rs4474730	rs9902398	rs11078639	
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	rs12149986	rs9902811	rs9892714	rs3815612	rs9893644	rs7215532	rs16951673
NA06985	03	03	01	03	03	00	03
	rs4790822	rs7209873	rs17821469	rs7210205	rs7213760	rs8073376	rs8066706
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	rs12600664	rs5005394	rs3809875	rs9890631	rs17857049	rs9913923	rs9904065
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	rs7224496	rs9914079	rs7216701	rs8067685	rs8072508	rs9907701	rs7212849
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	rs7217992	rs7219095	rs6416881	rs9913613	rs4480847	rs8074466	rs9915727
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	rs9895439	rs12943802	rs12943803	rs7503422	rs12953068	rs11656931	
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	rs8067660	rs12952857	rs8065937	rs12601565	rs12602765	rs7217805	
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	rs11654477	rs8076047	rs7503251	rs4790825	rs4790827	rs9897846	rs4790828
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	rs9905780	rs11078671	rs4790830	rs4790831	rs12450367	rs7220634	rs7224523
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	rs3815611	rs2287321	rs2287320	rs11650870	rs4429328	rs6416887	rs6503011
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	rs16951710	rs12952019	rs7504075	rs4281767	rs11867830	rs11656253	
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	rs7214234	rs7216940	rs4619437	rs11078676	rs9914601	rs12942990	rs4239058
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	rs12944532	rs3786136	rs12449352	rs12150513	rs12949163	rs9901624	
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	rs7503173	rs7501623	rs8081207	rs8081691	rs8067048	rs4450431	rs8067195
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	rs4591177	rs4450432	rs2270411	rs9889302	rs12449332	rs4638622	rs8069522
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	rs5030755	rs2230930	rs2277694	rs4541110	rs17292175	rs12943171	
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	rs11654967	rs8077346	rs9909163	rs2270412	rs11078705	rs3826538	rs3786134
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	rs3786133	rs9675274	rs2230931	rs12951064	rs12951084	rs7213213	rs7503021

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	rs3744769	rs3744768	rs3744767	rs3744766	rs12727	rs1051315	rs17734
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	rs1131636	rs16951763	rs9914073	rs17761467	rs7208736	rs12600983	
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	rs9893535	rs12449323	rs7208143	rs4423456	rs12945923	rs7444400	rs4405588
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	rs9907285	rs12945424	rs12602230	rs7211332	rs882495	rs4790292	rs4629003
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	rs4284688	rs12936470	rs8077492	rs12452904	rs8079035	rs12449603	
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	rs8067702	rs9818	rs7406065	rs9906592	rs4430781	rs7221762	rs3923783
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	rs4790845	rs4567760	rs4525524	rs4500775	rs4073661	rs4265862	rs4516268
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	rs12103665	rs9892095	rs11651877	rs11654521	rs10438741	rs10438728	
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	rs10438742	rs4790849	rs12603209	rs6503101	rs11653138	rs11078741	
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	rs4609888	rs6503104	rs11656964	rs6503107	rs9894201	rs12937079	rs7207938
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	rs2316513	rs8070579	rs2236374	rs3744274	rs2232482	rs2232481	rs3865240
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	rs10521116	rs7220412	rs2760748	rs7213049	rs11870452	rs7225843	rs7225860
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	rs2760741	rs2760740	rs7225168	rs2957926	rs2760739	rs2760737	rs2131702
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	rs2172593	rs2641440	rs16951935	rs2760734	rs2760751	rs2760750	rs2984943
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	rs9896902	rs7212589	rs7503141	rs8072532	rs9901867	rs8079479	rs8064885
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	rs9902945	rs6503293	rs7209460	rs12325821	rs9913789	rs11657636	rs903159
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	rs1565763	rs11655099	rs7212964	rs7220685	rs9916824	rs8082485	rs16951962
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	rs7219693	rs9893238	rs9906706	rs11655779	rs7221132	rs4790881	rs4790315
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	rs11871926	rs898749	rs898748	rs7214741	rs7219557	rs11658797	rs2307143
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	rs7213232	rs170040	rs216175	rs7209564	rs4471715	rs170041	rs17761864
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	rs17834563	rs216182	rs216183	rs216184	rs11657644	rs9910849	rs9898390
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	rs9905529	rs2038677	rs8065650	rs8066372	rs9899330	rs749240	rs216189
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	rs7209994	rs7215587	rs7216259	rs12943111	rs12943112	rs9908271	rs8067484
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	rs9891572	rs9898838	rs12602231	rs7215344	rs8075088	rs7218422	rs12602038
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	rs12325765	rs1076165	rs1076164	rs4790374	rs9916161	rs12325719	rs9894287
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	rs12103537	rs9900355	rs9906212	rs12103602	rs9915468	rs16952463	
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	rs7226198	rs4790377	rs2317668	rs8078491	rs7406606	rs9303139	rs34142458
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	rs11652404	rs17835077	rs9905679	rs17762380	rs9907411	rs12602373	
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	rs4790099	rs9912966	rs4790101	rs8065651	rs9907201	rs9907207	rs12450785
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	rs12951612	rs12951927	rs11871449	rs9910572	rs12946748	rs12937985	
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	rs17835089	rs735176	rs8071519	rs4390626	rs8071333	rs8072995	rs11868546
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	rs7220216	rs4790385	rs4790386	rs4790387	rs6502630	rs2317394	rs4790388
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	rs2317469	rs4553663	rs16952511	rs4790103	rs4790104	rs8078257	rs1530378
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	rs16952515	rs12451246	rs12602570	rs9913267	rs12950291	rs2317468	
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	rs2317467	rs12948061	rs12947325	rs9913168	rs12150217	rs7218231	
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	rs8077217	rs9912533	rs8070330	rs9902973	rs12950923	rs7342939	rs17822227
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	rs8080301	rs721666	rs715662	rs715663	rs715661	rs4790396	rs8072011
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	rs8076548	rs12946227	rs7359607	rs2317463	rs2317462	rs1017535	rs17221933
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	rs17221975	rs17221982	rs8067068	rs12943691	rs11870976	rs8076504	
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	rs4151125	rs4151126	rs3853818	rs3829603	rs4151134	rs7215056	rs17856698
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           rs8067640 rs7223380 rs1861948 rs7640 rs12941981 rs12451095 rs3744263

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	rs8069762	rs6502196	rs7225617	rs9900254	rs237261	rs8069430	rs1380737
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	rs8074990	rs7222561	rs8079354	rs12937475	rs11870286	rs237262	rs7210065
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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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	rs12941385	rs7216829	rs2097986	rs7217158	rs2097985	rs7218185	rs4792295
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	rs11867873	rs1986081	rs9652826	rs10521202	rs4791519	rs8077610	rs9892894
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	rs7221396	rs7222249	rs7207659	rs7207847	rs7207700	rs12601708	rs12603489
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	rs4462638	rs2072252	rs12453406	rs12451610	rs12451713	rs11078096	
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	rs2240569	rs2240568	rs4577129	rs7225118	rs8069856	rs9913763	rs12450877
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	rs8071615	rs8071726	rs4792311	rs2286336	rs12601556	rs4792312	rs4792314
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	rs17639858	rs8077923	rs7218504	rs12943765	rs17639912	rs7214814	
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	rs4054867	rs11078157	rs8080163	rs2996049	rs7502711	rs7502538	rs9911651	
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	rs11078160	rs7220471	rs7220965	rs933367	rs9893728	rs9899909	rs1013943	
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	rs8070423	rs16947982	rs7214167	rs16947988	rs9889837	rs7220667		
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	rs2024088	rs9912697	rs9891702	rs11868901	rs8080724	rs11655905	
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	rs3760184	rs11868398	rs4924891	rs4924892	rs7220132	rs4479310	rs8074074
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	rs1320250	rs4985784	rs4452009	rs9906181	rs7220745	rs7222159	rs7224556
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	rs1657734	rs3752033	rs3752034	rs1714865	rs3752036	rs4985866	rs16962951
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	rs5015752	rs4989405	rs4989406	rs4989408	rs4989409	rs5001191	rs5008951
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	rs5008952	rs5001194	rs5008955	rs5000464	rs5000460	rs5000459	rs8081292
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	rs6587167	rs8081527	rs8080908	rs6587170	rs3889249	rs12451306	rs6587171
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	rs17781651	rs319790	rs9898045	rs9899129	rs9898508	rs9897132	rs11656803
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	rs419566	rs450280	rs423022	rs377996	rs377946	rs396996	rs400060
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	rs13380849	rs7209079	rs12453495	rs7501952	rs7220735	rs4525541	
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           rs4795768 rs17836785 rs733136 rs452439 rs439783 rs9915690 rs4795769

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	rs959338	rs12450971	rs11868983	rs11868989	rs10512443	rs7213724	
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	rs6505397	rs4794992	rs9903934	rs8079587	rs8065802	rs8080487	rs16963804
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	rs1024613	rs12939473	rs2108826	rs17542175	rs8066047	rs7213460	rs7215649
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	rs11657810	rs11653971	rs7207653	rs1860179	rs12452818	rs17542274	
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	rs7215001	rs7215324	rs887074	rs12601112	rs4794993	rs887072	rs887071
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	rs12601658	rs2368473	rs4299196	rs9889846	rs9909870	rs9896676	rs11658977
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	rs1019113	rs1019112	rs10491109	rs1024612	rs11651806	rs17652000	
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	rs2159220	rs1029720	rs1029719	rs11654788	rs16969373	rs9906713	
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	rs17652139	rs12950076	rs4340374	rs6505400	rs8070055	rs12944577	
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	rs2215183	rs13380798	rs9893808	rs16969376	rs16969377	rs7215541	

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	rs740563	rs8182355	rs9902605	rs7223422	rs7223451	rs9889296	rs9890014
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 rs159311 rs159312 rs17654117 rs212451 rs295076 rs167170 rs212453

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	rs212485	rs1034610	rs113881	rs212489	rs212491	rs212492	rs212498	
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	rs159268	rs159269	rs295086	rs1619833	rs210837	rs159250	rs159248	
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	rs159247	rs150509	rs150511	rs150512	rs150514	rs2118232	rs150516	
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	rs150517	rs159246	rs210835	rs7503575	rs150518	rs150519	rs150520	
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	rs159245	rs150521	rs4795917	rs7217062	rs159244	rs16969797	rs17577327	
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	rs16969801	rs886160	rs886161	rs12953164	rs756882	rs7208805	rs7207706	
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	rs12938628	rs16969810	rs12939824	rs7215683	rs9893614	rs7210611		
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	rs17661147	rs17661177	rs7215933	rs9895472	rs17661219	rs9896056		
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	rs17661261	rs9895330	rs159254	rs159253	rs159252	rs9892574	rs159251	
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	rs9907428	rs11658990	rs9916329	rs1978685	rs4041613	rs4795921	rs159242	
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	rs159243	rs183309	rs12603249	rs4795923	rs9912429	rs1431994	rs969979	
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	rs969978	rs9908130	rs4795924	rs210816	rs210817	rs210818	rs7215597	

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	rs11658008	rs7214375	rs1545118	rs2289161	rs2289159	rs2289158	rs2289157
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	rs8068271	rs8073153	rs9893565	rs8069343	rs11868354	rs732808	rs732807
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	rs973147	rs12940398	rs9906999	rs2436093	rs9907511	rs2164670	rs7221060
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	rs9907489	rs4796093	rs8077228	rs2376179	rs4795078	rs7221507	rs986419
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	rs7213293	rs4796095	rs4796096	rs8065894	rs4796097	rs8065286	rs11650473
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	rs12150450	rs4329956	rs874722	rs11080353	rs9897663	rs11080354	rs9898142
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	rs9901285	rs4795082	rs7221322	rs9894813	rs1004985	rs7210888	rs17550268
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	rs9989463	rs8073060	rs9907259	rs1350010	rs1350011	rs1001441	rs1531057



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	rs10512472	rs4516277	rs321596	rs321597	rs16971122	rs12940584	rs12452633
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	rs17550632	rs12452797	rs17637907	rs2840044	rs321601	rs9891887	
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	rs225283	rs2301731	rs2376177	rs11656872	rs9303689	rs11650225	rs1634684
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	rs183435	rs2604845	rs16971207	rs2604844	rs225249	rs17669281	rs17606150
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	rs16971217	rs225247	rs225246	rs3785759	rs225245	rs225244	rs225251
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	rs12604067	rs10491114	rs225255	rs225259	rs225262	rs225263	rs225268
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	rs9906170	rs225269	rs16971241	rs225270	rs10491115	rs16971244	rs225271
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	rs225272	rs225273	rs225274	rs225275	rs225276	rs225277	rs225278
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	rs231483	rs231479	rs3785814	rs1731903	rs9789057	rs3809746	rs231475	
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	rs4792922	rs1731887	rs1642613	rs1662745	rs1662746	rs1035284	rs1035282
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	rs467148	rs186691	rs2070592	rs8067852	rs231462	rs231461	rs11651138
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	rs8079948	rs739771	rs12452334	rs3892483	rs448502	rs190144	rs228757	
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	rs8067029	rs2289671	rs1126642	rs2289681	rs3785891	rs3744469	rs4514714
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	rs17629022	rs8079065	rs2229011	rs2070935	rs3760379	rs8079392	rs17546654



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	rs3024281	rs3024275	rs3024272	rs2920453	rs9908256	rs17547180	rs1075701
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	rs7217321	rs7221649	rs2129732	rs2129731	rs9894306	rs6503423	rs7207047
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	rs9303454	rs9890150	rs7223320	rs7224944	rs12603905	rs9913579	rs9893672
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	rs8182234	rs2240120	rs11079806	rs2051821	rs12950225	rs11651097	rs6847
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	rs9899404	rs9894411	rs4794012	rs12939961	rs4794015	rs8080644	rs2411759
NA06985	01	03	03	03	02	01	02
	rs1390154	rs11650936	rs8065044	rs7223256	rs1495274	rs1994969	rs9912108
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	rs9674544	rs16945640	rs12953103	rs17635703	rs12939375	rs6504592	
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	rs11079849	rs9906710	rs9906944	rs9913370	rs10853104	rs11079850	
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	rs11079851	rs4794018	rs2088140	rs8076012	rs17708997	rs9912906	rs9899580
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	rs4794019	rs8079385	rs9916472	rs4794020	rs11870560	rs12942084	
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	rs16945851	rs8073244	rs4793606	rs1463761	rs4072951	rs11872073	
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	rs11650845	rs3816272	rs8068981	rs4410130	rs4643373	rs4265867	rs11871214
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	rs9896443	rs2969	rs11655950	rs2241932	rs3744085	rs11650883	rs6504593
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	rs12945158	rs12103459	rs7359561	rs8069452	rs12947399	rs11871697	
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	rs1523136	rs12939237	rs9900905	rs940088	rs11656072	rs13380832	
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	rs11870778	rs11656250	rs7222673	rs8065327	rs11657661	rs4319818	
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	rs1523135	rs12947315	rs4793607	rs7222165	rs6504595	rs11654126	
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	rs11654127	rs1916293	rs1004274	rs1916295	rs1916296	rs11079856	
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	rs11079857	rs4794021	rs4794022	rs11653468	rs1523133	rs7218166	rs1554551
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	rs11655025	rs16946584	rs7208698	rs16946608	rs1523134	rs9908826	
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	rs16948482	rs7222443	rs9904213	rs890399	rs442114	rs3096613	rs486993
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	rs187958	rs9914802	rs16948490	rs7226308	rs271643	rs271644	rs271645
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	rs7209971	rs8067497	rs8072142	rs11079980	rs11079981	rs7214924	
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	rs16950448	rs4793721	rs4794301	rs7226307	rs4411539	rs7207398	rs1880770
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	rs1880769	rs8082567	rs4793722	rs9901949	rs8074550	rs7502787	rs1526187
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	rs1405191	rs9899188	rs9891580	rs9902580	rs1263984	rs1263946	rs12945752

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	rs2188313	rs16950471	rs9897040	rs1989800	rs1029371	rs886076	rs7215704
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	rs7214117	rs8072848	rs7220861	rs16950481	rs17664492	rs8182237	
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	rs16950484	rs16950487	rs9904076	rs2693524	rs1534203	rs7209391	rs1534204
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	rs4396578	rs4794303	rs1124282	rs1124281	rs4794304	rs9915707	rs2319453
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	rs11870610	rs732809	rs1158213	rs1917997	rs6504746	rs1526188	rs2197462
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	rs1526189	rs2075457	rs9890029	rs8074185	rs6504747	rs957451	rs2197461
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	rs1526181	rs1263902	rs9900059	rs7219531	rs7224383	rs4337334	rs4396576
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	rs16950512	rs9652848	rs9905784	rs7223782	rs732309	rs16950521	rs741682
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	rs9914475	rs9913931	rs11655453	rs10432044	rs6504748	rs9910375	
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	rs10432036	rs8081615	rs722489	rs16950528	rs12451860	rs17588506	
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	rs1526183	rs17588651	rs1263903	rs7218006	rs9893548	rs759977	rs12452577
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	rs202139	rs7219884	rs9907127	rs6504751	rs11655258	rs9915777	rs11658806
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	rs9906093	rs8068740	rs203081	rs169387	rs16950822	rs7501597	rs203083	
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	rs203093	rs203094	rs203095	rs203096	rs69178	rs4094323	rs169388	rs203097
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	rs2182894	rs2769578	rs6504765	rs2769581	rs7212392	rs6504767	rs11080000
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	rs10515009	rs7225545	rs4794345	rs9908246	rs6504776	rs11651985	rs1590739
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	rs1328107	rs7218673	rs7219593	rs4793743	rs7210605	rs4794346	rs4794347
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	rs1492227	rs8070570	rs1492228	rs2467496	rs2452236	rs9912007	rs1492210
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	rs1606429	rs7225410	rs1512870	rs1512869	rs6504810	rs8076455	rs9900991
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	rs1877505	rs17706826	rs1877504	rs1512868	rs1512867	rs12450084	rs2271474
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	rs12600767	rs12600781	rs792773	rs7224532	rs11652321	rs7225331	
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	rs792768	rs792767	rs1355683	rs1818466	rs792766	rs1355682	rs792765
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	rs2877398	rs8065440	rs11649734	rs792763	rs9895442	rs9897947	rs9898180
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	rs16957049	rs16957053	rs7209373	rs7209382	rs7207925	rs16957057	
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	rs16957059	rs7220660	rs4141009	rs7220843	rs4141008	rs16957062	

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	rs16957073	rs17213068	rs4794631	rs7223377	rs16957077	rs9903434	
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	rs16957080	rs17820092	rs4793809	rs4794632	rs9897805	rs2192214	rs8064674
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	rs8064801	rs12943912	rs11870333	rs9903956	rs7221133	rs1120771	rs9899075
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	rs9913603	rs763636	rs8067787	rs8077712	rs12944196	rs16957094	rs12945364
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	rs1005207	rs11079217	rs966793	rs11657096	rs9904793	rs16957098	rs9904833
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	rs17213137	rs12452038	rs11079219	rs11651727	rs12950466	rs12450830	
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	rs4793810	rs11079220	rs16957105	rs12373157	rs12452882	rs7222986	
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	rs7222518	rs12939082	rs16957107	rs8071126	rs12950975	rs9303385	
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	rs12386059	rs759109	rs759108	rs759107	rs9909171	rs9303386	rs11657999
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	rs1860971	rs9897164	rs12944442	rs12600910	rs12450105	rs7223694	
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	rs11867397	rs17821506	rs12449568	rs12602961	rs9902114	rs8070099	
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	rs8074127	rs8068496	rs4536527	rs8073557	rs8073717	rs9915451	rs9890326
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	rs9890332	rs9890346	rs17821518	rs9895846	rs16957115	rs16957116	
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	rs9912375	rs9905645	rs2159966	rs8077784	rs12950006	rs7226239	rs12951206
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	rs7207145	rs8070477	rs2215755	rs16957121	rs4794635	rs8073983	rs4794636
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	rs8068870	rs16957151	rs8077879	rs8065259	rs12948531	rs7212737	
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	rs7207168	rs7211037	rs12947748	rs9905142	rs9905477	rs11869295	rs9914525
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	rs6505055	rs7213785	rs2159968	rs2192222	rs2192221	rs9910369	rs9915583
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	rs9914223	rs11869569	rs2110202	rs8079979	rs8080268	rs8072155	rs8072623
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	rs9901787	rs10515125	rs6505056	rs11079228	rs7222706	rs7208879	rs7209673
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	rs8077890	rs6505057	rs9889952	rs2215760	rs2192217	rs9896904	rs9898973
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	rs987313	rs1014267	rs11650061	rs7224952	rs16957237	rs9899492	rs8082082
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	rs8082447	rs2024316	rs7224861	rs17820378	rs7222135	rs17213404	
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	rs17213411	rs4360992	rs17820396	rs9910714	rs9910441	rs7218500	rs2215758
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	rs9897995	rs929586	rs17213446	rs10852985	rs9901040	rs16957254	rs7209150
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	rs1548810	rs9913702	rs1548809	rs16957259	rs8081597	rs9899123	rs887785
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	rs887784	rs11079232	rs12945783	rs12945850	rs4572471	rs9890914	rs7219938
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 rs1372855 rs1372856 rs12450244 rs10515129 rs10515130 rs9895965  
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 rs17760367 rs17760375 rs7209657 rs4794647 rs887087 rs887086 rs7220876

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	rs1348322	rs12602045	rs9915976	rs1442828	rs16957413	rs1992505	rs7213501
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	rs16957420	rs17822219	rs1561902	rs4445953	rs1372857	rs12953047	
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	rs7215955	rs6505063	rs11079244	rs11079245	rs12603626	rs12936115	
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	rs11079246	rs11079247	rs17822243	rs9898268	rs8076091	rs12950691	
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	rs8080409	rs2159226	rs1029725	rs9915697	rs9910215	rs7225569	rs4793821
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	rs17220166	rs9906782	rs9908499	rs11871238	rs4794649	rs10515133	
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	rs9916001	rs8081402	rs1003395	rs1003394	rs17820725	rs6505064	rs11654392
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	rs13341827	rs7217360	rs7217540	rs9904855	rs7217688	rs9904669	rs6505065
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	rs758304	rs9892219	rs740570	rs7208197	rs17220194	rs1076352	rs4794652
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	rs9900593	rs1372853	rs9909236	rs16957477	rs4794653	rs2877762	rs4605230
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	rs12939240	rs9914536	rs12325830	rs17713947	rs4794654	rs2079668	
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	rs9904217	rs9902641	rs9910414	rs6503749	rs6503750	rs16957510	rs16957515
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	rs12051582	rs17714289	rs16957522	rs7215604	rs7215595	rs11869866	
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	rs16957532	rs16957540	rs8182270	rs7212632	rs16957541	rs16957543	
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	rs7214790	rs9896663	rs2108830	rs8081298	rs2007643	rs16957555	rs2007653
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	rs7216933	rs6503751	rs1946992	rs9901230	rs8064737	rs6503752	rs12451582
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	rs16957563	rs8075811	rs17647371	rs7224584	rs714832	rs16957581	rs9893127

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 rs227755 rs227753 rs227751 rs9905380 rs227749 rs227748 rs1879143  
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           rs4794659 rs8073799 rs3914805 rs3914804 rs3914803 rs3914802 rs2877782  
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           rs16957768 rs8069932 rs6503759 rs17760519 rs6503761 rs9894767 rs8073886  
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           rs2197258 rs2203894 rs17822439 rs6503765 rs3853824 rs8065989 rs17822462  
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	rs12937619	rs9899453	rs3760157	rs3760158	rs2176744	rs2049061	rs17833466
NA06985	01	02	02	02	02	02	01
	rs2049062	rs12601812	rs2271897	rs2271898	rs12601782	rs4794670	rs4794672
NA06985	02	03	03	02	02	01	02
	rs4793835	rs9908291	rs8076182	rs7218364	rs9903097	rs8067906	rs8071825
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	rs12947891	rs3785473	rs11651692	rs2230873	rs9911560	rs3826295	rs8071009
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	rs7220789	rs1992554	rs17833555	rs4365350	rs1992553	rs7209070	rs17760871
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	rs17760897	rs8068693	rs8068850	rs11870932	rs9910930	rs16957824	
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NA06985	02	01	01	01	03	02	02
	rs2525993	rs205498	rs7225205	rs9909750	rs205503	rs7209166	rs7213666
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	rs2586525	rs2525992	rs169530	rs205502	rs7212260	rs11869863	rs188197
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	rs8079259	rs732646	rs8076795	rs2079229	rs4239206	rs8067386	rs7221286
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	rs2214565	rs3095500	rs3095499	rs3095493	rs3095492	rs4794677	rs3095491
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	rs2287001	rs7209525	rs2287000	rs12453004	rs7215654	rs8072840	rs3760160
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	rs12451333	rs4461139	rs4613127	rs7214685	rs6503782	rs7226170	rs11871155
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	rs726278	rs7217803	rs12603994	rs8081277	rs8076205	rs9914182	rs917927
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	rs998113	rs997722	rs997723	rs2160115	rs3826296	rs2270278	rs17220495
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	rs17761023	rs2230770	rs2230771	rs17833723	rs2230772	rs1050515	
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	rs11538740	rs11658676	rs2241072	rs11655568	rs880134	rs880135	rs11651918
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	rs8070407	rs430973	rs9903933	rs10438767	rs12952151	rs2611782	rs11867171
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	rs385793	rs11651933	rs1631237	rs372648	rs380280	rs17822837	rs4340382
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	rs8078462	rs11079511	rs7207005	rs896064	rs11656720	rs2044125	rs2584640
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	rs2665840	rs2597636	rs9914681	rs2597635	rs2665843	rs2597634	rs2727332
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	rs2727280	rs2665797	rs2665795	rs2727330	rs2727331	rs12604005	rs2727276
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	rs2584612	rs16947154	rs9891741	rs2584610	rs2584608	rs16947161	rs2156903
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	rs2236737	rs2236736	rs2727304	rs2584597	rs2584642	rs2854218	rs2854216
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	rs2854202	rs2854198	rs2257281	rs2665847	rs2665850	rs2008018	rs2854191
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	rs2955245	rs3020608	rs9797221	rs2854155	rs7210880	rs7215304	rs2955234
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	rs2005132	rs2320125	rs2003549	rs2286565	rs16947270	rs9911257	rs1860334
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	rs8075954	rs16947283	rs887283	rs7218747	rs12386045	rs8080613	rs8067271
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	rs2077041	rs196944	rs196945	rs196946	rs196947	rs196948	rs196949
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	rs16962555	rs9893623	rs8071951	rs7218878	rs4791150	rs2107654	rs6504334
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	rs232141	rs232142	rs232144	rs232145	rs232146	rs8080748	rs8182293
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	rs2318868	rs1592658	rs1592659	rs2318869	rs7218844	rs2024275	rs2024274
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	rs8071892	rs9303489	rs1812058	rs4790927	rs11650100	rs8067803	rs888340
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	rs229851	rs2165842	rs7208192	rs1511134	rs7209395	rs12949444	rs9908597
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	rs1979496	rs12945694	rs4791241	rs12603188	rs9896230	rs12450031	
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	rs4496197	rs11652682	rs4496198	rs4496196	rs7215161	rs6504520	rs11657839
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	rs12943140	rs9896154	rs1473449	rs2286918	rs16963131	rs1979498	rs8068183
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	rs2365407	rs12449819	rs9896336	rs9914888	rs11651778	rs11079701	
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	rs7215543	rs7225648	rs8068181	rs8068596	rs8068352	rs8065590	rs8077133
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	rs4791114	rs8072947	rs7217546	rs12453450	rs12600551	rs11870061	
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	rs10083887	rs8069603	rs8081309	rs8066878	rs4383213	rs4968939	rs8070603
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	rs8076670	rs8070512	rs8074614	rs8079458	rs8079609	rs8075890	rs4968940
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	rs11869824	rs9302981	rs10512518	rs12150577	rs6501725	rs4340383	
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	rs7224115	rs1548444	rs7222898	rs16974045	rs9302900	rs8078890	rs8077944
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	rs9913842	rs739559	rs9893273	rs8065373	rs2716219	rs2716218	rs2715819
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	rs12948059	rs1858970	rs16974082	rs2716213	rs2521348	rs9903644	rs2074027
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	rs16974102	rs12051558	rs2521349	rs2716212	rs9900464	rs2716211	rs2715822
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	rs11867183	rs16974110	rs2715824	rs17769598	rs2251862	rs2251855	
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	rs12938556	rs12948879	rs12947775	rs12945641	rs12938818	rs12947780	
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	rs12938826	rs12938843	rs11657645	rs17690945	rs2074028	rs2715826	
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	rs2521355	rs2251160	rs2521356	rs3729920	rs2716206	rs17691066	rs2521358
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	rs12603781	rs2074029	rs3729922	rs2074031	rs3729925	rs2074032	rs7225903
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	rs2716201	rs2715828	rs4968792	rs11869376	rs2715830	rs2716197	rs2715831
NA06985	01	01	01	02	01	03	01
	rs2715832	rs2715833	rs2716195	rs16974160	rs2715834	rs8067307	rs8072070
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	rs16974166	rs2716194	rs756944	rs2716193	rs3815035	rs2521365	rs16974184
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	rs7222609	rs12603937	rs12600415	rs12600726	rs2716191	rs16974191	
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	rs2072073	rs2072074	rs2072075	rs12603822	rs2716173	rs11650716	rs989681
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	rs16974193	rs17823190	rs17223054	rs11867261	rs1989854	rs17823202	
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	rs236513	rs1468472	rs7221086	rs173135	rs9302914	rs9302915	rs9895478
NA06985	02	02	01	02	01	03	00
	rs9894661	rs3815306	rs643637	rs1544489	rs1544490	rs4328485	rs236518
NA06985	01	00	01	01	03	03	01
	rs9906310	rs236519	rs686525	rs12941534	rs236520	rs12949668	rs9901104
NA06985	01	02	02	01	01	02	02
	rs8074857	rs8080944	rs17775970	rs11870556	rs603047	rs603051	rs11652680
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	rs11654136	rs11657830	rs2529686	rs661122	rs8081358	rs8079702	rs12325754
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	rs8071956	rs11653279	rs1877740	rs17776081	rs3744486	rs8068407	rs236578
NA06985	01	03	01	03	01	03	01
	rs1514238	rs1849699	rs16975331	rs1514239	rs12601653	rs10512537	
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	rs16975337	rs7209800	rs236582	rs1966369	rs1966370	rs236583	rs236584
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	rs1468473	rs12947618	rs8082135	rs1473905	rs9891877	rs236585	rs11871843
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	rs236586	rs236587	rs236588	rs236594	rs236595	rs1514236	rs8076345
NA06985	02	01	02	02	02	03	03
	rs236523	rs1514235	rs236524	rs236525	rs11077480	rs9898954	rs236527
NA06985	02	01	03	03	03	03	01
	rs236528	rs638538	rs236529	rs12944409	rs236530	rs9902679	rs236531
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	rs9895144	rs9914814	rs236533	rs657282	rs656918	rs656367	rs9913208
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	rs236572	rs236573	rs171038	rs2671318	rs9896666	rs236540	rs9904401
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	rs11077481	rs236543	rs236544	rs236545	rs9908272	rs9913937	rs236547
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	rs9915538	rs11077482	rs236548	rs2886687	rs17703427	rs9908284	rs12943348
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	rs12936484	rs12943968	rs8064542	rs8064570	rs9896020	rs11870865	rs999978
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	rs236567	rs9916584	rs1969242	rs1019064	rs236549	rs9905182	rs9914801

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	rs236556	rs9896235	rs236557	rs236558	rs236559	rs9891872	rs7213181
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	rs9908872	rs9914455	rs236561	rs236562	rs12942828	rs4346246	rs12943216
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	rs236563	rs9905884	rs11652180	rs9903628	rs992072	rs7502061	rs9899175
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	rs236504	rs236505	rs7223705	rs171036	rs9894659	rs1399185	rs1355915
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	rs8075271	rs8076950	rs631407	rs17714860	rs17777095	rs7210212	rs11650230
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	rs180506	rs236517	rs723498	rs723499	rs723500	rs8074548	rs4968888
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	rs312718	rs7223241	rs312719	rs4968890	rs312721	rs7214819	rs312723
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	rs17715333	rs312725	rs312726	rs312727	rs11077488	rs6501384	rs411079
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	rs312698	rs1606655	rs1606656	rs12938204	rs12938223	rs12948308	
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	rs12945349	rs12948615	rs8078592	rs188744	rs312699	rs236575	rs192853
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	rs312702	rs7217963	rs12951087	rs312703	rs312705	rs236576	rs7222503
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	rs16975529	rs9901891	rs7208007	rs312707	rs8080802	rs7225313	rs7224535
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	rs7209611	rs10163526	rs312729	rs312732	rs17778044	rs312733	rs312734

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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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	rs430581	rs219937	rs17716091	rs11652037	rs312745	rs2671311	rs312687
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	rs7209774	rs16975575	rs8072128	rs312688	rs11653931	rs312690	rs10775360
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	rs17763583	rs312691	rs16975583	rs4462644	rs312677	rs12947451	rs11654895
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	rs17175871	rs420132	rs414658	rs1514245	rs17763595	rs7219869	rs430334
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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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	rs312775	rs16975661	rs16975664	rs9915405	rs9900590	rs16975670	rs3848451
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	rs10153305	rs9911312	rs16975672	rs3848452	rs3848453	rs3891525	rs9906661
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	rs17777464	rs3848454	rs16975680	rs2366692	rs2366693	rs16975683	
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	rs16975699	rs6501387	rs6501388	rs7225342	rs7216111	rs12947091	rs8065569
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	rs10852725	rs16975718	rs16975721	rs8081289	rs9892258	rs995589	rs7211061

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	rs7220070	rs17778087	rs16975741	rs9916540	rs11867711	rs8066780	
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	rs16975742	rs984877	rs17716027	rs17778265	rs2024185	rs9892017	
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	rs12601221	rs9908024	rs11077493	rs9891615	rs7225986	rs12938668	
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	rs17716096	rs1468572	rs6501391	rs10491171	rs17778406	rs11077494	
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	rs11654179	rs2191224	rs16975758	rs9890689	rs2052078	rs7217259	rs1396517
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	rs9916856	rs16975768	rs17778568	rs12935930	rs1396516	rs4141161	
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	rs9907272	rs9898685	rs2366790	rs1396515	rs1396514	rs9902803	rs9897538
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	rs7215252	rs6501392	rs7207861	rs16975797	rs2109232	rs16975800	rs7503022
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	rs2159437	rs1120297	rs17778854	rs4793339	rs9892069	rs17778866	rs8075667
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	rs6501394	rs11654387	rs10491172	rs9912702	rs11658767	rs2024186	
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	rs8066985	rs12936051	rs12945058	rs7209570	rs717118	rs1605751	rs717119
NA06985	01	01	01	03	03	01	01
	rs9900263	rs4640232	rs4080890	rs4436818	rs4603601	rs1605750	rs9905947
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	rs11651760	rs1588278	rs12451654	rs12451157	rs1979982	rs4399570	
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	rs12451917	rs12449999	rs11652496	rs11652892	rs11658714	rs11658719	
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	rs11657834	rs16975820	rs1013506	rs9302917	rs12051549	rs12051831	
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	rs9894848	rs8069876	rs8068124	rs17717388	rs11653232	rs8080456	rs8080507
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	rs8066148	rs8072275	rs10512539	rs9892323	rs17779747	rs9899335	rs980248
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	rs16975853	rs12453924	rs10445228	rs7210840	rs7216598	rs1303769	
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                  rs4793395 rs13343268 rs9894256 rs11077499 rs9910818 rs12150602  
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                  rs12103678 rs168420 rs487039 rs17780076 rs8073016 rs17780119 rs17780131  
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                  rs11077501 rs365813 rs4261590 rs350605 rs11651554 rs350603 rs11653355  
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                  rs482515 rs367218 rs402214 rs484253 rs486202 rs610662 rs610730  
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 NA06985        03            01            01            01            03            03            02  
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	rs8079029	rs4019476	rs7222670	rs4793496	rs9908077	rs11077509	rs11871352
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	rs421333	rs413073	rs16975961	rs532348	rs9904090	rs16975968	rs9911708
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	rs9907685	rs9914666	rs17717654	rs16975970	rs1981646	rs16975976	
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	rs16975993	rs2240749	rs2240750	rs16976000	rs16976002	rs189580	rs1843622
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	rs9891997	rs12942978	rs9910837	rs17718586	rs8066818	rs408448	rs367742
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	rs17792098	rs2109054	rs7213431	rs17792120	rs9902143	rs2058176	
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	rs17718938	rs12150594	rs12150650	rs12150354	rs11077513	rs7208893	
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	rs7208905	rs12952595	rs187150	rs9904530	rs16976080	rs7221340	rs8071981
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	rs1486294	rs1486295	rs1486296	rs2041265	rs17763811	rs4793500	rs9892024
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	rs181426	rs190258	rs8066562	rs8066016	rs9896299	rs11868346	rs11652213
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	rs7223502	rs17223216	rs7209270	rs8067096	rs8068203	rs17176167	rs9905555
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	rs17176216	rs11867879	rs7211118	rs7215997	rs8069488	rs740674	rs2079748
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	rs9911558	rs9912421	rs8082019	rs7502180	rs1024642	rs1024644	rs7213806
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	rs8071065	rs8077119	rs8071555	rs9889316	rs9898253	rs9892374	rs16976201
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	rs4141188	rs4141187	rs16976203	rs9907514	rs1154955	rs9907787	rs9916370
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	rs7221046	rs4561514	rs2367391	rs9904181	rs4629009	rs4402613	rs4278788
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	rs17766239	rs17225590	rs8068192	rs9797277	rs17766251	rs17766257	
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	rs11077562	rs9907039	rs11650293	rs11653885	rs12940643	rs8064579	
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	rs4485409	rs4072714	rs4072715	rs4075985	rs4072716	rs12602376	rs3935123
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	rs3935122	rs4072601	rs7210086	rs7214193	rs1126967	rs1126966	rs1126965
NA06985	02	02	02	02	02	01	03
	rs3803828	rs17780250	rs17780256	rs12943232	rs12943256	rs9912126	
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	rs3924958	rs3924957	rs11077617	rs11871247	rs7218320	rs8075775	rs4312352
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	rs11656016	rs11077618	rs8078627	rs7223986	rs7208843	rs16977309	
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	rs11077619	rs4793298	rs4414537	rs9907020	rs8071617	rs8071063	rs8080530
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	rs8080540	rs8080713	rs11652643	rs12051604	rs4793473	rs11869908	
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	rs11077622	rs11077623	rs4239154	rs4445941	rs11649723	rs4793478	
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	rs4530179	rs11077627	rs11658711	rs9914977	rs11077628	rs7214498	
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	rs7208934	rs9903952	rs8077681	rs8069275	rs11654812	rs4567770	rs4290517
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	rs4625760	rs11653866	rs11657319	rs4076588	rs3890843	rs1079464	rs745693
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	rs7211166	rs2567512	rs11658363	rs11658152	rs16977327	rs2344308	rs867662
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	rs17780310	rs2567513	rs4383191	rs2714000	rs9902752	rs2714001	rs7223857
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	rs7223437	rs9894801	rs8066857	rs17182644	rs7359585	rs9905659	rs7359606
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	rs17827723	rs8078261	rs2714025	rs7223158	rs11868186	rs12602393	



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	rs8069506	rs8071664	rs8077525	rs16977337	rs9907481	rs9912103	rs11650398
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	rs755675	rs755674	rs755677	rs7210709	rs7211283	rs2466505	rs11871746

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	rs2567517	rs2714016	rs2714017	rs2714018	rs2567515	rs2714019	rs2567514
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	rs12452435	rs16977419	rs9914210	rs9894922	rs8070819	rs7223623	rs8082204
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	rs903109	rs903110	rs2251934	rs2452911	rs12600955	rs2466514	rs2466515
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	rs9891758	rs12938091	rs903097	rs2452929	rs2466509	rs2466510	rs7220552
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	rs2466511	rs2452930	rs10512592	rs2934226	rs2344871	rs8067474	rs11867291
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	rs11077654	rs7216928	rs11658597	rs11077655	rs11077656	rs7215954	
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	rs883786	rs7217198	rs7211589	rs7218007	rs8075919	rs6501592	rs6501594
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	rs17248463	rs12602009	rs1037260	rs11077670	rs2236748	rs2236750	
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	rs2236751	rs2236752	rs2236753	rs728291	rs2236754	rs1037261	rs4408598
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	rs998571	rs1466113	rs4988465	rs7220818	rs7210080	rs12936744	rs7212204
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	rs17781472	rs9915918	rs11077671	rs11650004	rs6501603	rs8073445	
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	rs9899367	rs753281	rs7221533	rs9902795	rs4969081	rs1052705	rs1052706
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	rs12949912	rs1009110	rs4375725	rs2278793	rs1026127	rs1026128	rs1026129
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	rs8076989	rs9893246	rs6501612	rs12451710	rs1391641	rs11650974	
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	rs17781597	rs2345285	rs4550516	rs17184168	rs12945554	rs12601592	
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	rs8076745	rs7218307	rs4969086	rs7224745	rs9900024	rs3764360	rs1466114
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	rs12600959	rs9903479	rs4283272	rs1382940	rs16977783	rs1382939	rs7222422
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	rs2683189	rs2683188	rs11656719	rs8070752	rs9896175	rs1817436	rs12939912
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	rs9894200	rs12451840	rs12940646	rs12940957	rs7501513	rs9903866	
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	rs7214492	rs2619981	rs9901983	rs2619980	rs4534907	rs2586857	rs2586856
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	rs2586855	rs2683197	rs16977793	rs9913232	rs1552012	rs752060	rs2619960
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	rs2620042	rs9889412	rs11654591	rs2683138	rs1585804	rs4789011	rs2127432
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	rs12948360	rs2620044	rs2683136	rs2683135	rs2620046	rs2683134	rs2683133
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	rs12452084	rs12450306	rs2620047	rs2620049	rs9909546	rs7406014	rs4789538
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	rs8080554	rs11653518	rs9910160	rs2620051	rs7406939	rs7406805	rs2620052
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	rs12103782	rs9899469	rs9897548	rs9906171	rs7216972	rs9907387	rs2586825
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	rs9891811	rs9891829	rs9893998	rs9894266	rs9893048	rs2683147	rs2683145
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	rs17836927	rs7222828	rs12325739	rs1870245	rs1870244	rs9904550	rs2198990
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	rs16978086	rs12935942	rs10512596	rs783250	rs11657099	rs1879968	
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	rs16978106	rs11653299	rs1976492	rs1566836	rs11870245	rs2292107	
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	rs4994941	rs7221379	rs1719483	rs1719482	rs1621953	rs16978122	rs16978123
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	rs1719480	rs11868846	rs1719479	rs1171210	rs1171213	rs11077753	rs937696
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	rs16969151	rs2109101	rs973632	rs973631	rs973630	rs11870941	rs7214860
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	rs2410994	rs1117060	rs1117059	rs4788937	rs2098092	rs7223597	rs7210275
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	rs9889862	rs4261576	rs9915915	rs9913451	rs2410996	rs16969187	rs17792777
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	rs9905930	rs1905160	rs9894295	rs11077399	rs2277700	rs2277699	rs2277698
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	rs7342888	rs7342880	rs7215655	rs6501256	rs11870525	rs4796812	rs4796813
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	rs12600817	rs7502916	rs7218729	rs9905388	rs11870586	rs6501265	rs9909799
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	rs12949279	rs12949300	rs11656563	rs12600592	rs12944929	rs7225476	
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	rs12946994	rs7210046	rs4303599	rs7214465	rs4889865	rs12450647	rs8065287
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	rs8077678	rs9891172	rs9913181	rs9895980	rs12451045	rs12946618	rs7221617
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	rs11654635	rs12937297	rs2315927	rs7218776	rs7214653	rs1125587	rs4477776
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	rs7503807	rs4890056	rs9909241	rs4890057	rs4889776	rs9903842	rs11658093
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	rs12946049	rs8075393	rs901060	rs901061	rs12950489	rs901062	rs901063
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	rs7502196	rs901064	rs12952285	rs12947696	rs7209279	rs7220588	rs7209723
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	rs7212125	rs10048177	rs1531946	rs10048151	rs9897453	rs9905794	
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	rs2681122	rs2677930	rs662669	rs668133	rs603016	rs11658083	rs605054
NA06985	03	03	03	03	01	01	00
	rs8079088	rs601997	rs601555	rs601533	rs681595	rs997921	rs11078015
NA06985	01	01	03	01	03	01	01
	rs12452833	rs9891304	rs6502134	rs12948179	rs8074277	rs12450046	
NA06985	01	01	01	01	02	02	
	rs3744165	rs11077947	rs12948188	rs10163502	rs9906115	rs11654320	
NA06985	03	03	03	01	02	03	
	rs10163478	rs11655395	rs9897676	rs9903208	rs3803769	rs7225515	rs4986113
NA06985	03	03	03	03	03	02	01
	rs8069699	rs4075209	rs7219521	rs11655723	rs4986114	rs4986117	rs7216324
NA06985	03	02	01	01	01	03	03
	rs4986118	rs7215939	rs7214952	rs11077948	rs9897951	rs7223204	rs9913679
NA06985	03	03	03	03	02	01	03
	rs9911685	rs9303013	rs8076360	rs6502007	rs12452622	rs733342	rs11869432
NA06985	03	01	03	03	01	01	03
	rs8067902	rs2199111	rs11870134	rs9894705	rs9789034	rs9303014	rs7210902
NA06985	03	02	01	02	01	03	01
	rs7224427	rs12946560	rs4986121	rs4986122	rs4986083	rs9892064	rs7222931
NA06985	01	01	01	02	03	03	03
	rs9894419	rs8065975	rs9900369	rs7406011	rs7221138	rs7214035	rs898093
NA06985	03	01	02	02	03	03	03
	rs6502010	rs8078446	rs12945629	rs11650335	rs7218196	rs7222963	rs8067926

NA06985	01	03	03	02	01	03	02
	rs8072584	rs4986125	rs7220642	rs9747334	rs9747279	rs4986127	rs11870340
NA06985	03	03	01	01	03	01	03
	rs3744159	rs11658422	rs7218786	rs1317809	rs8075894	rs6502011	rs4986129
NA06985	01	03	01	00	02	03	03
	rs4986131	rs11870094	rs8077706	rs898101	rs4986085	rs4986086	rs4986133
NA06985	01	03	01	03	01	03	01
	rs9891862	rs11869888	rs9894906	rs4986134	rs4986135	rs7210153	rs7208393
NA06985	01	03	03	01	01	03	03
	rs7209726	rs7209736	rs11869396	rs12453162	rs11869416	rs7212980	
NA06985	01	03	03	02	03	01	
	rs2271918	rs11651826	rs9905146	rs2292971	rs8068572	rs4986136	rs2085616
NA06985	02	03	01	01	01	02	03
	rs8073910	rs8074371	rs2271916	rs4359479	rs3803768	rs6502013	rs6502014
NA06985	01	03	01	03	01	03	01
	rs8078148	rs9912684	rs8064687	rs8070801	rs8069773	rs9899957	rs9902635
NA06985	03	02	03	01	01	03	03
	rs12601021	rs1551627	rs12942419	rs8080847	rs8067859	rs8067463	rs1551625
NA06985	03	03	01	01	03	01	03
	rs3744155	rs2279064	rs2279063	rs11868138	rs10163476	rs3826308	
NA06985	03	01	01	01	03	03	
	rs10163477	rs1011007	rs754639	rs898096	rs1078334	rs11657837	rs3785512
NA06985	03	01	02	03	02	03	01
	rs3785513	rs8072406	rs8072518	rs729123	rs729124	rs1127986	rs2034962
NA06985	02	01	03	03	02	03	02
	rs2380172	rs6502015	rs3785514	rs7208020	rs3785515	rs3785516	rs7208520
NA06985	02	01	02	03	01	01	01
	rs2125479	rs898095	rs12103580	rs7406464	rs11652232	rs11869930	rs7218129
NA06985	02	02	03	02	03	01	02
	rs3785518	rs3785519	rs3785520	rs3785521	rs3785522	rs17856082	rs11077949
NA06985	03	01	02	02	02	03	01
	rs3744156	rs8073471	rs9896933	rs9916526	rs2292969	rs2292968	rs6416854
NA06985	01	01	02	03	01	03	02
	rs7213006	rs2292966	rs3603	rs1044661	rs8180	rs11077950	rs12940475
NA06985	02	01	03	02	02	01	01
	rs9896263	rs1065144	rs898097	rs898098	rs7225887	rs3744157	rs3744158
NA06985	02	00	02	02	01	03	01
	rs7222745	rs7222773	rs8079082	rs6502021	rs9906163	rs12949939	rs2380173
NA06985	02	02	01	02	02	01	02
	rs8074284	rs12937252	rs9916545	rs2380176	rs4271625	rs1531281	rs1001865
NA06985	02	01	01	01	01	03	01
	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)
```

R-squared	SNPs used				<NA>
	1 tags	2 tags	3 tags	4 tags	
[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 Osborne et al. (2009) 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 gonorrhoea"
                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 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 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="gwascat")), 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. (Kircher et al., 2014) 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.

## References

Martin Kircher, Daniela M Witten, Preti Jain, Brian J O’Roak, Gregory M Cooper, and Jay Shendure. A general framework for estimating the relative pathogenicity of human genetic variants. *Nat Genet*, Feb 2014. doi: 10.1038/ng.2892.

John D Osborne, Jared Flatow, Michelle Holko, Simon M Lin, Warren A Kibbe, Lihua Julie Zhu, Maria I Danila, Gang Feng, and Rex L Chisholm. Annotating the human genome with disease ontology. *BMC Genomics*, 10 Suppl 1:S6, Jan 2009. doi: 10.1186/1471-2164-10-S1-S6. URL <http://www.biomedcentral.com/1471-2164/10/S1/S6>.