| ID    | Chr | Location     | Coefficients |
|-------|-----|--------------|--------------|
| RP01  | 18  | 9102509      | -0.2603      |
| RP02  | 9   | 138440562    | -0.25247     |
| RP03  | 4   | 42344051     | -0.16969     |
| RP04  | 6   | 23434028     | -0.11298     |
| RP05  | 10  | 54519150     | -0.05693     |
| RP06  | 3   | 103854896    | -0.04958     |
| RP07  | 2   | 137866132    | -0.03632     |
| RP08  | 2   | 222340239    | -0.03231     |
| RP09  | 19  | 8789227      | -0.02924     |
| RP10  | 8   | 6517040      | -0.02235     |
| RP11  | 14  | 48430295     | -0.02076     |
| RP12  | 22  | 45970957     | -0.01783     |
| RP13  | 9   | 18861021     | -0.01148     |
| RP14  | 4   | 117630240    | -0.00927     |
| RP15  | 6   | 29434414     | 0.010866     |
| RP16  | 9   | 5420526      | 0.013204     |
| RP17  | 3   | 187908176    | 0.014126     |
| RP18  | 2   | 69880314     | 0.025025     |
| RP19  | 9   | 138373864    | 0.039429     |
| RP20  | 16  | 81461322     | 0.050278     |
| RP21  | 11  | 81715144     | 0.050524     |
| RP22  | 6   | 144586746    | 0.061824     |
| RP23  | 2   | 137321430    | 0.062806     |
| RP24  | 4   | 5629298      | 0.077442     |
| RP25  | 1   | 95330745     | 0.086455     |
| RP26  | 1   | 236340179    | 0.088164     |
| RP27  | 3   | 165790002    | 0.088631     |
| RP28  | 6   | 106559602    | 0.110807     |
| RP29  | 9   | 33104540     | 0.120775     |
| RP30  | 4   | 164617773    | 0.128903     |
| RP31  | 16  | 83461553     | 0.148922     |
| RP32  | 11  | 101605466    | 0.150621     |
| RP33  | 14  | 55076477     | 0.204155     |
| RP34  | 7   | 84365672     | 0.237402     |
| RP35  | 18  | 43943801     | 0.24467      |
| RP36  | 18  | 5603627      | 0.246517     |
| RP37  | 17  | 70810416     | 0.256039     |
| RP38  | 20  | 60385967     | 0.279084     |
| RP39  | 9   | 5389652      | 0.305607     |

**ID** is the assigned name for the single nucleotide polymorphism (SNP) that was used for the RP prediction.

**Chr** is the chromosome on which the corresponding **RPxx** located.

**Location** is the exact physical coordinate where the corresponding **RPxx** located based on reference genome is GRCh37.p13.

**Coefficient** is the constant for the multiplying in the algebraic expression of RPI calculation.
Supplemental material, R script for genotype conversion

dir="user define"

setwd(dir)

pheno=read.table("pheno_rp2.txt",header=T,sep="\t")
genodata=read.csv("re_analysis.csv",header=T,sep=",")
geno=genodata[,2:ncol(genodata)]
rownames(geno)=genodata[,1]
geno=geno[,order(colnames(geno))]
geno=as.matrix(geno)

C2N=function(geno) {
  num=c()
  for(i in 1:nrow(geno)) {
    num[i]=length(unique(geno[i,]))
  }
  idnum=seq(1:length(num))
  dat=cbind(idnum,num)
  newdat=dat[dat[,2]==3,]
  ## newdat=newdat[newdat[,2]<4,]
  SNPcode=newdat[1:][,1]
  geno_data=geno[SNPcode,]
  df1=as.data.frame(t(geno_data))
  convert <- function(x) as.integer(factor(x, levels = names(sort(-table(x)))))
  df2 <- as.data.frame(lapply(df1, FUN = convert))
  rownames(df2)=rownames(df1)
  tdf=t(df2)
  tdf=tdf-1

  return (tdf)
}
