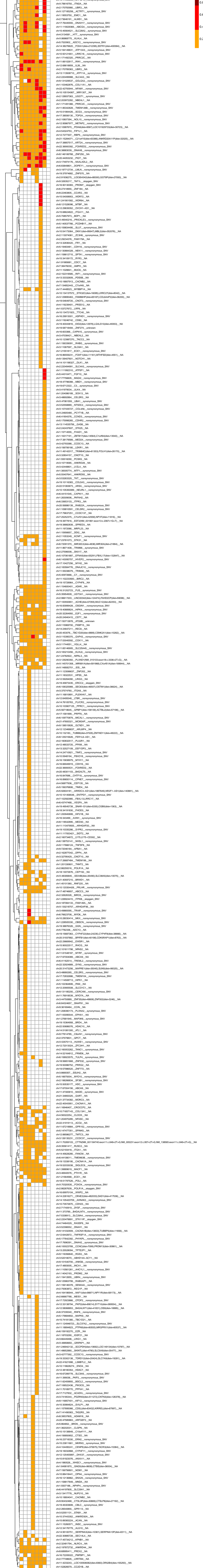


RCC_T4



- chr3:11926889__TAMM41(dist=38196),SYNZ2(dist=119273)___NA
- chr5:64077814__CWC27_nonsynonymous_SNV
- chr19:17449895__GTPBP3_nonsynonymous_SNV
- chrX:78616750__ITM2A__NA
- chr2:170783960__UBR3__NA
- chrX:127185256__ACTRT1_synonymous_SNV
- chr1:19553750__EMC1__NA
- chr2:73646191__ALMS1__NA
- chr17:76445555__DNAH17_nonsynonymous_SNV
- chr11:119029365__ABCG4_nonsynonymous_SNV
- chr15:45564521__SLC28A2_synonymous_SNV
- chr4:3134581__HTT_synonymous_SNV
- chrX:86868775__KLHL4__NA
- chr5:7529090__ADCY2_nonsynonymous_SNV
- chr14:136276620__FOXK1(dist=212295),SSTR1(dist=400584)___NA
- chr3:194149631__ATP13A3_nonsynonymous_SNV
- chr10:50121651__LRRC18_nonsynonymous_SNV
- chr1:171492320__PRRC2C__NA
- chr1:166102617__RIN1_nonsynonymous_SNV
- chr2:68618859__IL26__NA
- chr2:170789363__UBR3__NA
- chr13:113508710__ATP11A_nonsynonymous_SNV
- chr2:220499988__SLC4A3__NA
- chr9:131029537__GOLGA2_nonsynonymous_SNV
- chr1:103462876__COL11A1__NA
- chr22:42793944__NFAM1_nonsynonymous_SNV
- chr10:105154067__MIR1307__NA
- chr2:128937363__UGGT1_synonymous_SNV
- chr2:203972282__NBEAL1__NA
- chr1:171491366__PRRC2C_nonsynonymous_SNV
- chr11:85342828__TMEM126B_nonsynonymous_SNV
- chr15:51984426__SCG3_nonsynonymous_SNV
- chr17:38556130__TOP2A_nonsynonymous_SNV
- chr2:10807394__NOL10_nonsynonymous_SNV
- chr12:95867977__METAP2_nonsynonymous_SNV
- chr2:10587670__PDI4(dist=9567),LOC101929733(dist=30723)___NA
- chr4:54324753__FIP1L1__NA
- chr12:7277307__RBP5_nonsynonymous_SNV
- chr21:13284071__C21orf15(dist=63386),ANKRD20A1P1P(dist=32025)___NA
- chr17:15857517__KRT24_nonsynonymous_SNV
- chr22:36900392__FOXRED2_nonsynonymous_SNV
- chr6:38883039__DNAH8_nonsynonymous_SNV
- chr8:146106768__ZNF250__NA
- chr20:44053232__PIGT__NA
- chr3:174974176__NAALADL2__NA
- chr6:83849801__DOPEY1_nonsynonymous_SNV
- chr3:197712734__LMLN_nonsynonymous_SNV
- chr19:37974682__ZNF570__NA
- chr2:91963275__LOC654342(dist=88300),GGT8P(dist=27093)___NA
- chr9:32635217__TAF1L_stopgain_SNV
- chr16:90130083__PRDM7_stopgain_SNV
- chr6:27418955__ZNF184__NA
- chr8:22463805__CCAR2__NA
- chr15:54008953__WDR72__NA
- chr11:241901582__WDR64__NA
- chr8:121528096__MTBP__NA
- chr12:29639352__OVCH1-AS1__NA
- chr15:68624822__ITGA11__NA
- chr5:70857973__BDP1__NA
- chrX:49040216__PRICKLE3_nonsynonymous_SNV
- chr5:140537766__PCDH817__NA
- chr15:159834495__SLU7_synonymous_SNV
- chr10:54173064__DKK1(dist=95647),MBL2(dist=352076)___NA
- chr2:113074061__ZC3H6_synonymous_SNV
- chr2:29234376__FAM179A__NA
- chr13:32836420__FRY__NA
- chr5:19483481__CDH18_nonsynonymous_SNV
- chr3:130884328__NEK11_nonsynonymous_SNV
- chr1:158612715__SPTA1_nonsynonymous_SNV
- chr15:34109172__RYR3__NA
- chr1:91985681__CDC7__NA
- chr11:38276030__AMPH__NA
- chr17:1028841__MUC6__NA
- chr2:152319585__RIF1_nonsynonymous_SNV
- chr13:33332609__PDS5B__NA
- chr10:18807913__CACNB2__NA
- chr17:134852443__C7orf49__NA
- chr17:4448523__MYBBP1A__NA
- chr10:134137572__STK32C(dist=16095),LRRC27(dist=8042)___NA
- chr3:129895463__FAM86HP3(dist=6187),COL6A4P2(dist=36200)___NA
- chr19:54649720__CNOT3_nonsynonymous_SNV
- chr4:119239401__PRSS12__NA
- chr1:53727672__LRP8__NA
- chr10:134721923__TTC40__NA
- chr16:29913001__ASPHD1_nonsynonymous_SNV
- chr3:119246742__CD80__NA
- chr19:40043816__EID2(dist=12978),LGALS13(dist=49353)___NA
- chr19:58718494__ZNF274__unknown
- chr16:603366__CAPN15_synonymous_SNV
- chr3:47038421__NBEAL2__NA
- chr10:123987270__TACC2__NA
- chr1:156339091__RHBG_synonymous_SNV
- chr3:11067597__SLC6A1__NA
- chr1:21551817__ECE1_nonsynonymous_SNV
- chr16:86559231__FOXF1(dist=11161),MTHFS(Dist=4551)___NA
- chr9:139407601__NOTCH1__NA
- chr14:101198327__DLK1__NA
- chr2:220494991__SLC4A3_nonsynonymous_SNV
- chr1:11192310__ATPSF1__NA
- chr5:44310471__FGF10__NA
- chr7:77756605__MAGI2_nonsynonymous_SNV
- chr18:47796088__MBD1_nonsynonymous_SNV
- chr19:6712322__C3_synonymous_SNV
- chr3:41979534__ULK4__NA
- chr1:204086189__SOX13__NA
- chr3:48692864__CELSR3__NA
- chrX:47061559__UBA1_synonymous_SNV
- chr3:52558889__NT5DC2_nonsynonymous_SNV
- chrX:107435727__COL4A6_nonsynonymous_SNV
- chrX:24605480__PCYT1B__NA
- chr6:41904376__CCND3_nonsynonymous_SNV
- chr5:17598265__CDHR2_nonsynonymous_SNV
- chr13:114535756__GAS6__NA
- chr2:242437607__STK25__NA
- chr1:15714555__FHAD1__NA
- chr1:16317191__ZBTB17(dist=14564),C1orf64(dist=13540)___NA
- chr17:38179589__MED24_nonsynonymous_SNV
- chr3:42793388__CCDC13__NA
- chr15:156706180__LEK1__NA
- chr11:49142017__TRIM64C(dist=61353),FOLH1(dist=26170)___NA
- chr3:32804157__CNOT10__NA
- chr1:55518290__PCSK9__NA
- chr3:15719585__ANKRD28__NA
- chr3:42448801__LVZL4__NA
- chr1:38305774__MTF1_synonymous_SNV
- chr5:55407641__ANKRD55__NA
- chr3:53263329__TKT_nonsynonymous_SNV
- chr19:10116383__COL5A3_nonsynonymous_SNV
- chr22:51063673__ARSA_nonsynonymous_SNV
- chr10:105350089__NEURL1_nonsynonymous_SNV
- chr6:44151545__CAPN11__NA
- chr1:26309006__PAFH2__NA
- chr20:33653133__ITPR3__NA
- chr20:56886130__RAB22A_nonsynonymous_SNV
- chr1:109810591__CELSR2_nonsynonymous_SNV
- chr17:79637251__CCDC137__NA
- chr7:25252375__C7orf31(dist=32558),NPVF(dist=11816)___NA
- chr19:3977816__EF2(NM_001961:exon13:c.2067+1G>T)___NA
- chr19:38882839__SPRED3__NA
- chr11:1972066__MRPL23__NA
- chr1:15956657__DDI2__NA
- chr2:11053249__KCNF1_nonsynonymous_SNV
- chr7:23761073__STK31__NA
- chr6:72091370__MIR30C2(dist=4636),MIR30A(dist=21884)___NA
- chr2:27596008__SNX17__NA
- chr5:107061887__FNIA5(dist=55291),FBXL17(dist=132847)___NA
- chr16:143095757__MHVP2_nonsynonymous_SNV
- chr17:10427256__HYH2__NA
- chr2:183584776__DNAJC10_nonsynonymous_SNV
- chr11:55038079__TRIM48__NA
- chr5:40972666__C7_nonsynonymous_SNV
- chr11:102233563__BIRC2__NA
- chr19:15728964__CYP4F8__NA
- chr1:154600401__ADAR__NA
- chr5:36954509__UGT3A1_nonsynonymous_SNV
- chr2:96617203__LINC00342(dist=124474),FAHD2CP(dist=59096)___NA
- chr7:100550651__ACHE(dist=57059),MUC12(dist=62253)___NA
- chr16:40889824__HIPK4_nonsynonymous_SNV
- chr20:32264950__E2F1_nonsynonymous_SNV
- chr20:24940415__CST7__NA
- chr7:150713878__ATG9B__unknown
- chr9:115969700__FKBP15__NA
- chr14:24647211__REC8__NA
- chr20:453076__TAC1D20(dist=9889),CSNK2A1P1(dist=10622)___NA
- chr3:113045592__COX11__NA
- chr3:11744551__VGLL4__NA
- chr11:65146906__SLC25A45_nonsynonymous_SNV
- chr3:183210456__KLHL6_nonsynonymous_SNV
- chr1:24782922__NIPAL3__NA
- chr3:125290350__PLXND1(NM_015193:exon18:c.3336+2T>G)___NA
- chrX:149701358__MIR891A(dist=591968),CXorf51A(dist=189944)___NA
- chrX:148582701__IDS__NA
- chr11:123596637__ZNF202__NA
- chr11:18322531__HPS5__NA
- chr12:59284090__LRIG3__NA
- chr19:45873435__ERCC2_stopgain_SNV
- chr6:108325989__SEC63(dist=46507),OSTM1(dist=36624)___NA
- chr3:37574760__ITGA9__NA
- chr11:16810891__PLEKHA7__NA
- chr12:6495548__LTBR_nonsynonymous_SNV
- chr14:76105763__FLVCR2_nonsynonymous_SNV
- chr10:103907125__PPRC1_nonsynonymous_SNV
- chr5:156718645__GPBP1(dist=158139),ACTBL2(dist=57198)___NA
- chr17:1581999__PRPF8__NA
- chr6:109770879__MICAL1_nonsynonymous_SNV
- chr21:47693321__MCM3AP_nonsynonymous_SNV
- chr9:138515826__CLT6D1__NA
- chr12:123466637__ARL6IP4__NA
- chr10:132183__TUBB8(dist=37005),ZMYND11(dist=48222)___NA
- chr8:125015626__FER1L6-AS1__NA
- chr2:160832517__PLA2R1__NA
- chr12:48533725__PKFM1__NA
- chr13:32527109__EEF1DP3__NA
- chr14:24710921__TINF2_nonsynonymous_SNV
- chr10:5948194__FBXO18_nonsynonymous_SNV
- chr16:15838979__MYH11__NA
- chr6:66949919__CDH16__NA
- chr22:36900531__FOXRED2__NA
- chr20:48301103__B4GALT5__NA
- chr16:847696__CHTF18_synonymous_SNV
- chr16:89650114__CPNE7_nonsynonymous_SNV
- chr4:56877936__CEP135__NA
- chr5:156376806__TIMD4__NA
- chr5:92604181__ARRDC3-AS1(dist=1887649),NR2F1-AS1(dist=140881)___NA
- chr10:101458548__ENTPD7_nonsynonymous_SNV
- chr7:102582985__FBXL13,LRRC17__NA
- chr6:43747468__VEGFA__NA
- chr19:49545739__SNAR-G1(dist=5335),CGB5(dist=1363)___NA
- chr18:34191830__FHOD3__NA
- chr1:200945899__KIF21B__NA
- chr16:3449785__AXIN1_nonsynonymous_SNV
- chr8:118542895__MED30__NA
- chr11:110479555__ARHGAP20__NA
- chr19:10335286__S1PR2_nonsynonymous_SNV
- chr11:117053421__SIDT2__NA
- chr2:160734672__LV75-LV75-CD302__NA
- chr6:138753141__NHSL1_nonsynonymous_SNV
- chr9:117666124__TNFSF8__NA
- chr9:72046184__APBA1__NA
- chr2:162877042__DPP4__NA
- chr3:32795429__CNOT10__NA
- chr17:236687484__TMEM199__NA
- chr1:201330601__TMNT2__NA
- chr2:86259316__POLR1A__NA
- chr18:13072676__CEP192__NA
- chrX:48306845__SSXB(dist=35490),SLC38A5(dist=10075)___NA
- chr21:40597215__BRWD1__NA
- chr10:1203054426__PRLHR_nonsynonymous_SNV
- chr17:48746657__ABCC3__NA
- chr2:32626326__BIRC6_nonsynonymous_SNV
- chr1:226924415__ITPKB_stopgain_SNV
- chr4:1807084133__FAM149A__NA
- chrX:13218757__ARHGAP36__NA
- chr3:49869395__TRAI9_nonsynonymous_SNV
- chr6:76623708__MYO6__NA
- chr10:28030414__MKX_nonsynonymous_SNV
- chr1:22055330__OBSCN_nonsynonymous_SNV
- chr19:38876326__GYN_nonsynonymous_SNV
- chr5:7782336__ADCY2__NA
- chr19:15687363__CYP4F22(dist=24235),CYP4F8(dist=38666)___NA
- chr20:31937882__BPIFB1(dist=40198),CDK5RAP1(dist=8763)___NA
- chr22:29669942__EWSR1__NA
- chr15:90022517__RHCG__NA
- chr2:101611798__NPKS2__NA
- chr11:61548187__MYRF_nonsynonymous_SNV
- chr17:67004089__ABC9__NA
- chr6:41162514__TREM2_nonsynonymous_SNV
- chr22:32924889__SYN3_nonsynonymous_SNV
- chr20:31473256__MAPRE1(dist=35045),SUN5(dist=98325)___NA
- chr3:48680265__CELSR3_nonsynonymous_SNV
- chr17:72832686__TMEM104_nonsynonymous_SNV
- chr5:102364806__PAM__NA
- chr12:20905508__SLCO1C1__NA
- chr9:131185200__CERCAM_nonsynonymous_SNV
- chr11:76918539__MYO7A__NA
- chr3:44750889__ZNF35(dist=48606),ZNF502(dist=3246)___NA
- chr6:84324657__SNAP91__NA
- chr9:36169464__CCIN2__NA
- chr1:208390173__PLXNA2_nonsynonymous_SNV
- chr7:143095544__EPHA1__NA
- chr1:27681945__MAP3K6_nonsynonymous_SNV
- chr19:15264958__BRD4__NA
- chr22:5068607__HDAC10__NA
- chr14:51081300__ATL1__NA
- chr9:77614785__C9orf41_nonsynonymous_SNV
- chr2:37579831__QPCT__NA
- chrX:53575113__HUWE1_nonsynonymous_SNV
- chr2:160053262__FANCM1_synonymous_SNV
- chr14:52164812__TRMD6__NA
- chr6:158923575__ZLFP4_nonsynonymous_SNV
- chr18:56651688__ZNF532_nonsynonymous_SNV
- chr19:57086752__PRRG2__NA
- chr3:8669357__SSUH2__NA
- chr5:16675004__MYO10_nonsynonymous_SNV
- chr2:198266834__SFB1__NA
- chr15:50535177__HDC_synonymous_SNV
- chr17:67004156__ABC9A__NA
- chr11:47300610__MADD_synonymous_SNV
- chr21:34893325__GART__NA
- chr1:37734382__MORC3__NA
- chr22:40043951__CACNA11__NA
- chr1:16946407__CROCCP2__NA
- chr10:71657143__COL13A1__NA
- chr4:56322254__CLOCK__NA
- chr1:204970285__NFASC__NA
- chr22:41919113__ACO2__NA
- chr11:62118884__GPR152_nonsynonymous_SNV
- chr5:147477351__SPINK5__NA
- chr12:88586277__TMTC3__NA
- chr3:12613523__CCDC37_nonsynonymous_SNV
- chr11:70269103__CTTN(NM_001184740:exon11:c.846+2T>G;NM_005231:exon12:c.957+2T>G;NM_138865:exon11:c.846+2T>G)___NA
- chr9:35561417__RUSC2__NA
- chr5:52193418__ITGA1__NA
- chr14:45628285__FANCM__NA
- chr6:44108011__TMEM63B_nonsynonymous_SNV
- chr19:13338195__CAGNA1A__NA
- chr19:52033038__SIGLEC6_nonsynonymous_SNV
- chr11:39889619__MACF1__NA
- chr3:46940576__PTH1R__NA
- chr1:21564568__ECE1__NA
- chr18:51797526__POLI__NA
- chrX:70320535__FOXO4_nonsynonymous_SNV
- chr2:86267639__POLR1A_stopgain_SNV
- chr16:69970104__WWP2__NA
- chr14:105426271__OR4E2(dist=48203),DAD1(dist=417536)___NA
- chr14:105420709__AHNAK2_nonsynonymous_SNV
- chr10:73572670__CDH23__NA
- chr2:71740919__DYSF_nonsynonymous_SNV
- chr11:533789__B4GALNT4_nonsynonymous_SNV
- chr7:5338913__SLC29A4_nonsynonymous_SNV
- chr2:220478891__STK11IP_stopgain_SNV
- chr4:74464329__RASSF6__NA
- chr3:52396552__DNAH1__NA
- chr9:141032909__CACNA1B(dist=13833),TUBBP5(dist=11656)___NA
- chr2:16442672__TNFRSF10_nonsynonymous_SNV
- chr5:177642392__PHYK1_nonsynonymous_SNV
- chr17:7969391__DNAH2_synonymous_SNV
- chr6:100023789__CCNC(dist=7099),PRDM13(dist=30861)___NA
- chr13:25528094__TPE2P1__NA
- chr9:116356840__RGS3__NA
- chr3:52018070__ABHD14A-AC1__NA
- chr9:101540700__ANKS6_nonsynonymous_SNV
- chr1:15883005__INCA1__NA
- chr1:110561261__AHCYL1_nonsynonymous_SNV
- chr1:14042193__PRDM2__NA
- chr19:19412655__UBR4_nonsynonymous_SNV
- chr9:125863799__RABGAP1__NA
- chr1:156146378__SEMA4A_nonsynonymous_SNV
- chr2:79363872__REG1P__NA
- chr4:164186944__NAF1(dist=98871),NPY1R(dist=58173)___NA
- chr2:66667788__MEI1__NA
- chr17:72933866__OTOP2_nonsynonymous_SNV
- chr12:33138794__PKP2(dist=89014),SYT10(dist=389554)___NA
- chr12:56068853__B4GALNT1(dist=1831),OS9(dist=18885)___NA
- chr6:37393940__RNF8_nonsynonymous_SNV
- chr5:179684802__MAPK9__NA
- chr15:74181380__TBC1D21__NA
- chr11:124946723__SLC37A2_nonsynonymous_SNV
- chr11:18894823__PTPN5(dist=80555),MRGPRX1(dist=60537)___NA
- chr6:15992270__EZR__NA
- chr1:18703399__IGSF21__NA
- chr3:66449496__LRIG1__NA
- chrX:48858650__GRIPAP1__NA
- chr1:486592132__SCCPDH(dist=10692),LOC149134(dist=10787)___NA
- chr1:48652880__SKINTL1(dist=4780),SLC5A9(dist=35477)___NA
- chr3:42777392__CCDC13_nonsynonymous_SNV
- chr19:1923198__TDRD12(dist=20424),SLC7A9(dist=19281)___NA
- chr22:41621938__L3MBTL2__NA
- chr10:118628274__ENO4__NA
- chr12:48180354__HDAC7__NA
- chr16:6278978__SLC9A5_nonsynonymous_SNV
- chr11:399036__PKP3_nonsynonymous_SNV
- chr11:62459855__BSC2_nonsynonymous_SNV
- chr7:10652436__PK3CG__NA
- chr11:70189770__PPF1A1__NA
- chr17:7127832__ACAIVL_nonsynonymous_SNV
- chr3:74185344__PDRN3(dist=51172),CNTN3(dist=126378)___NA
- chr9:116857401__KIF12_nonsynonymous_SNV
- chr1:30984824__SVILP1__NA
- chr1:157895066__CDSL(dist=83432),KIRREL(dist=67997)___NA
- chr7:141490063__TAS2R5__NA
- chr8:39537805__ADAM18__NA
- chr20:47585863__ARFGF2__NA
- chr5:864652__BRD9_nonsynonymous_SNV
- chr1:36202031__CLSPN__NA
- chr10:15138849__C10orf111__NA
- chr4:156850652__CTSO__NA
- chr16:23718330__ERN2_nonsynonymous_SNV
- chr15:23811661__MKRN3_nonsynonymous_SNV
- chr4:104495241__CENPE(dist=375675),TACR3(dist=15384)___NA
- chr19:16032868__CYP4F11_nonsynonymous_SNV
- chr10:125455897__DHX37_nonsynonymous_SNV
- chr10:81923076__ANXA11__NA
- chr4:1980526__WHSC1_nonsynonymous_SNV
- chr1:84681870__GNG5(dist=9608),CTBS(dist=36934)___NA
- chr7:156756801__NOM1__NA
- chr10:88418441__SNP4_nonsynonymous_SNV
- chr16:12136862__SNX29_nonsynonymous_SNV
- chr1:158817849__MNDA__NA
- chr1:59371889__NPHP4_nonsynonymous_SNV
- chr6:44197805__SLC29A1__NA
- chr3:13417778__NUP210__NA
- chr9:90432468__CTSL3P3(dist=30669),CTSLP8(dist=27192)___NA
- chr19:45303699__CBLC_synonymous_SNV
- chr2:26540855__GPCR113__NA
- chr3:52551131__STAB1__NA
- chr10:37443352__ANKRD30A__NA
- chr15:89383224__ACAN__NA
- chr11:15260571__INSC_synonymous_SNV
- chr12:3416779__ALG10__NA
- chr14:95100751__SERPINA3(dist=10361),SERPINA13P(dist=6311)___NA
- chr22:30885728__SEC14L4__NA
- chr17:45734212__KPNB1__NA
- chr2:32481794__NLRCA4__NA
- chr2:197872732__ANKRD44__NA
- chr8:68995411__PREX2__NA
- chr6:77746055__LRRFBP1__NA
- chr1:14233243__LOC10050082(dist=9360),ORS2B4(dist=155250)___NA
- chr1:52826579__CC2D1B__NA

RCC_T4.6
RCC_T4.7
RCC_T4.8
RCC_T4.5
RCC_T4.4
RCC_T4.3
RCC_T4.2
RCC_T4.1