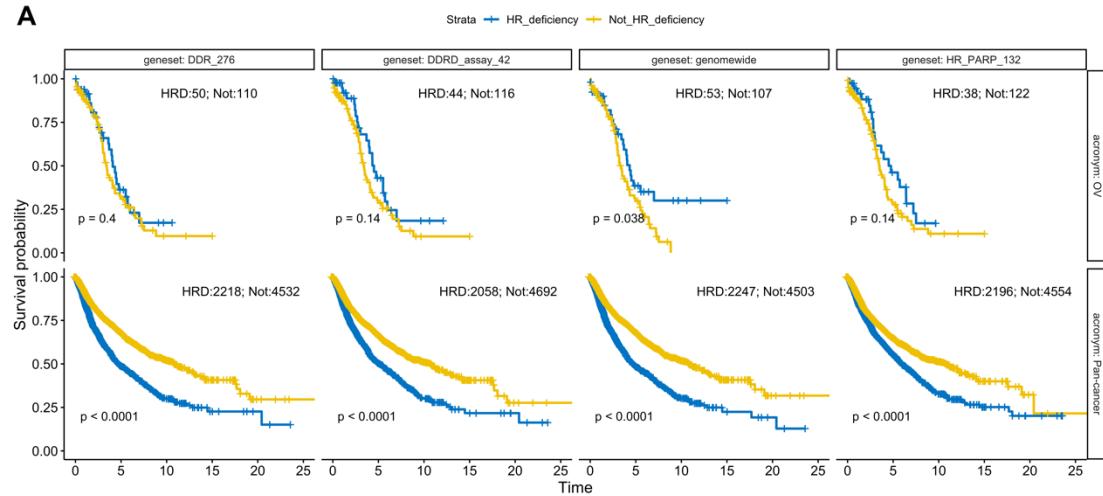
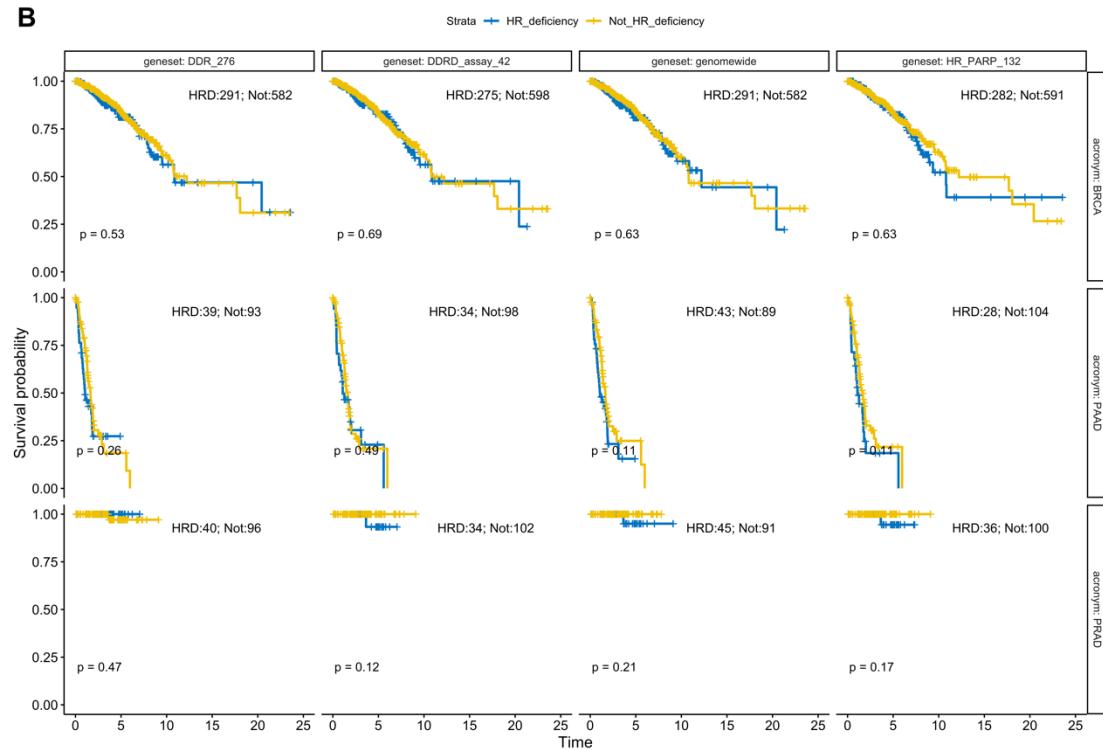


## Supplementary Materials

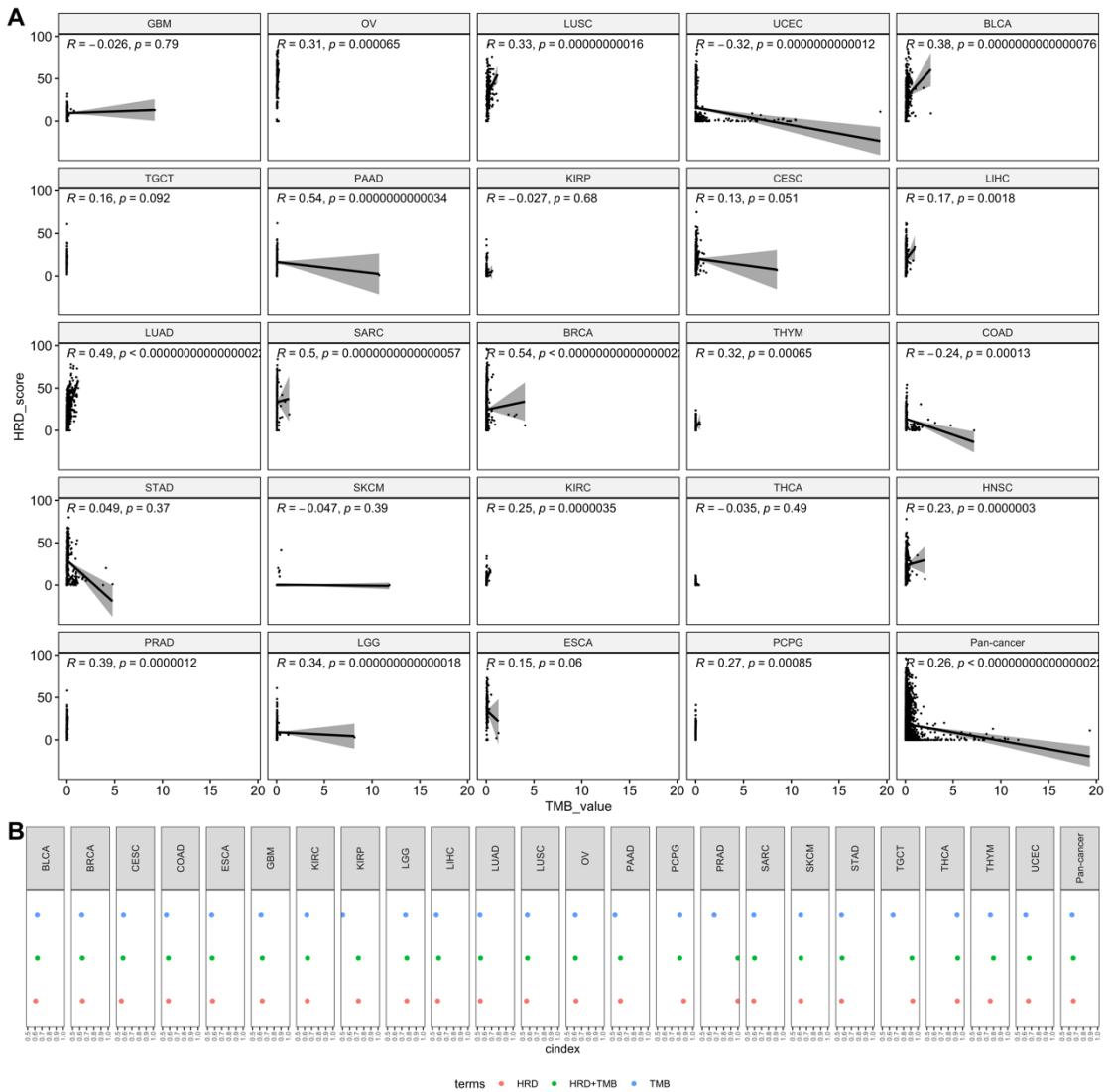
**A**



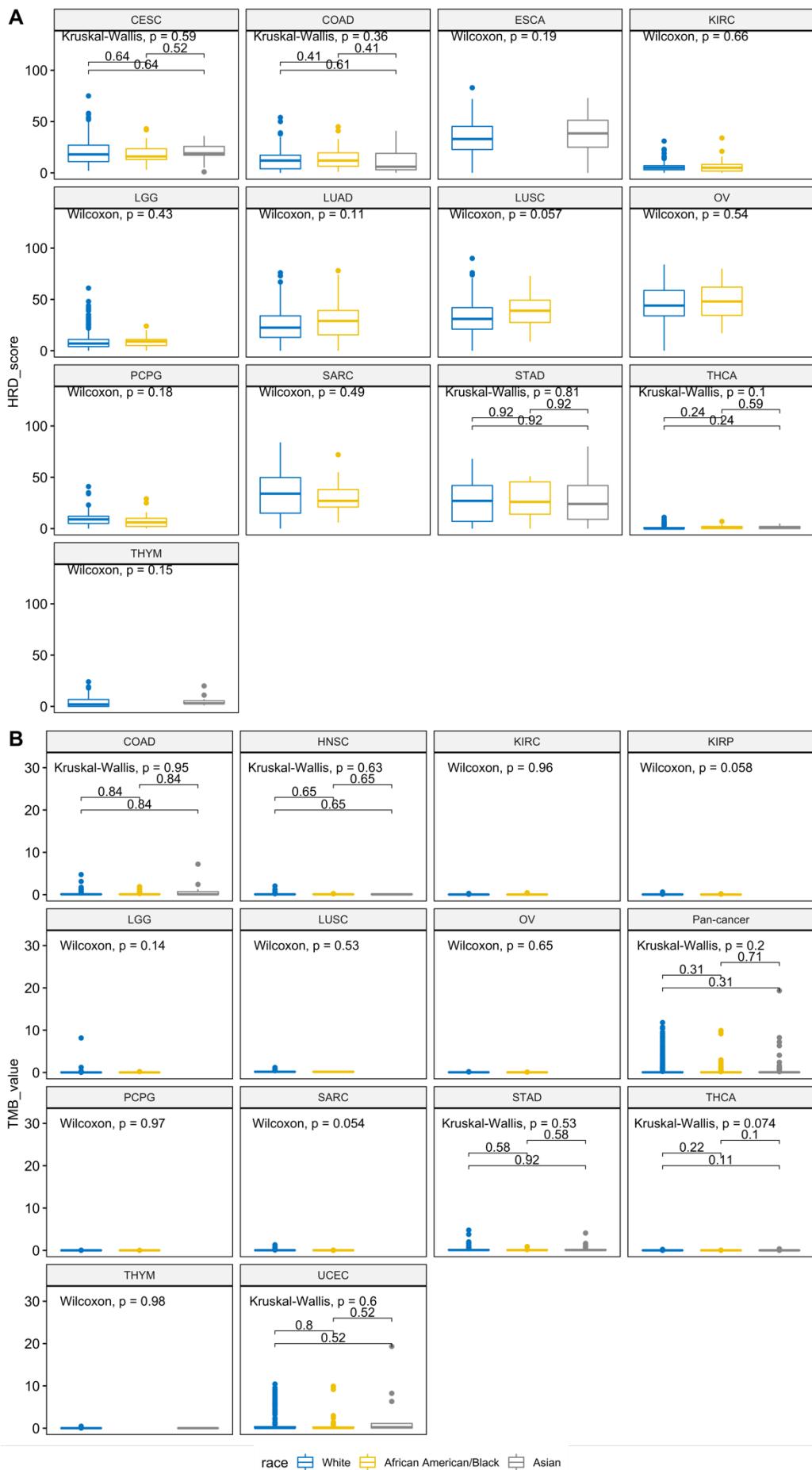
**B**



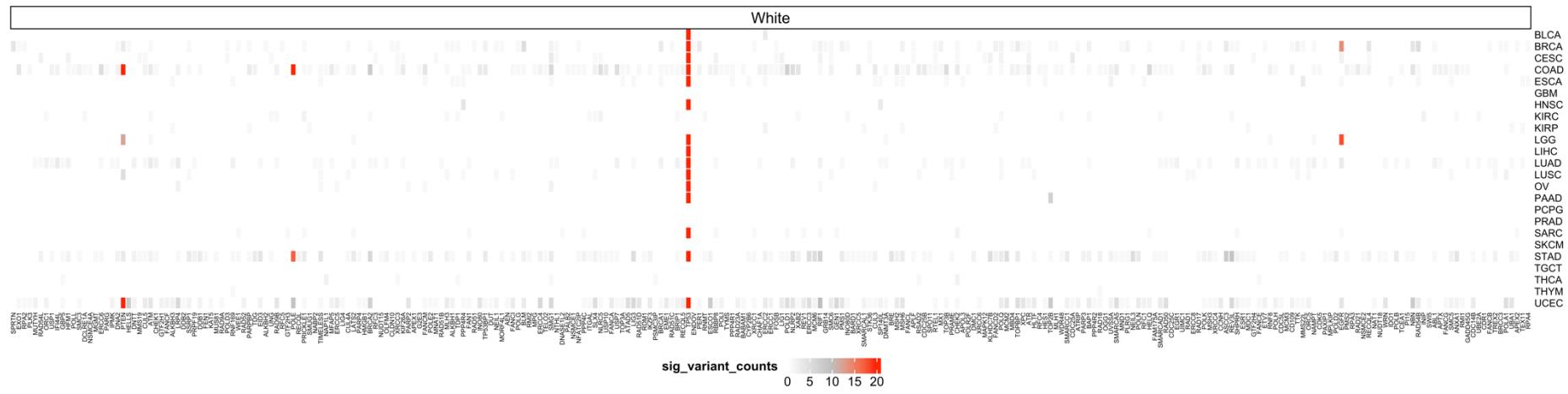
**Figure S1.** Association of cancer survival with HRD as defined by different genesets. Representative Kaplan-Meier (KM) survival curves for overall survival of four cancer types as a function of HRD. Cancer samples in BRCA, OV, PAAD, PRAD, and pan-cancer were defined as HRD if the HRD score was above the second tertile value (66.7%) within a cancer type. (A) The cohorts with the significant association of survival. (B) The cohorts without significant association of survival. The number of samples in each risk group are displayed at the top of each plot. Log rank test *p* values are presented in the bottom left-hand corner of each plot.



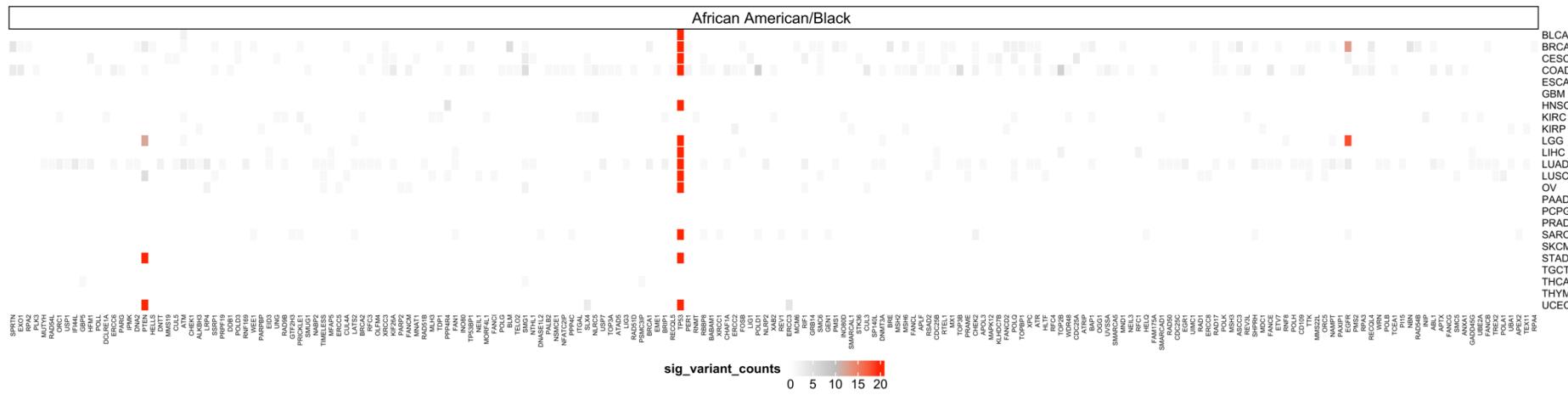
**Figure S2.** Correlation of HRD score and TMB across 24 cancer types and pan-cancer. (A) Spearman correlation between genome-wide HRD score and global TMB value. The TMB value is defined by the number of non-synonymous variants per mega-base in coding regions. The correlation and *p* value in each cancer are displayed in the top of each plot. (B) Association of HRD score, TMB, and their combination with overall survival by fitting Cox proportional hazards models. The c-index values represent the predictivity ability of the model. A value of 0.5 represents a random prediction, a value of 1 equals a perfect prediction.



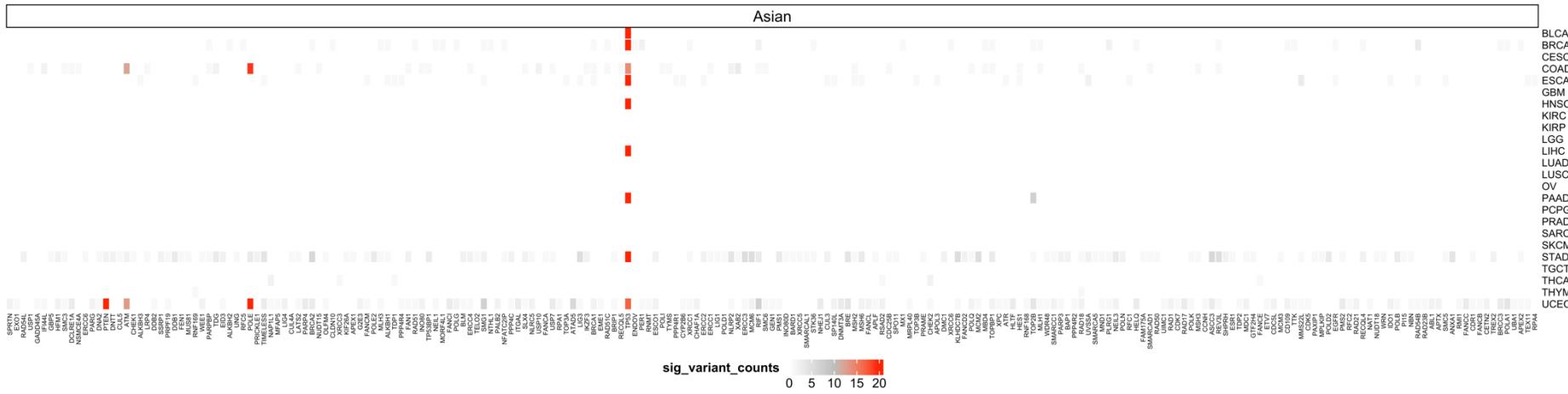
**Figure S3.** The non-significant interpopulation differences in the HRD scores and TMB among cancer types and pan-cancer. (A) Genome-wide HRD scores of all cancer types are stratified by racial population. (B) Global TMB values of all cancer types are stratified by racial population. Wilcoxon rank-sum test or Kruskal-Wallis test  $p$  values in each cancer are displayed at the top of each plot. Groupwise Wilcoxon rank-sum test with false discovery rate adjustment  $p$  values are shown above the bracket for each race-specific comparison.



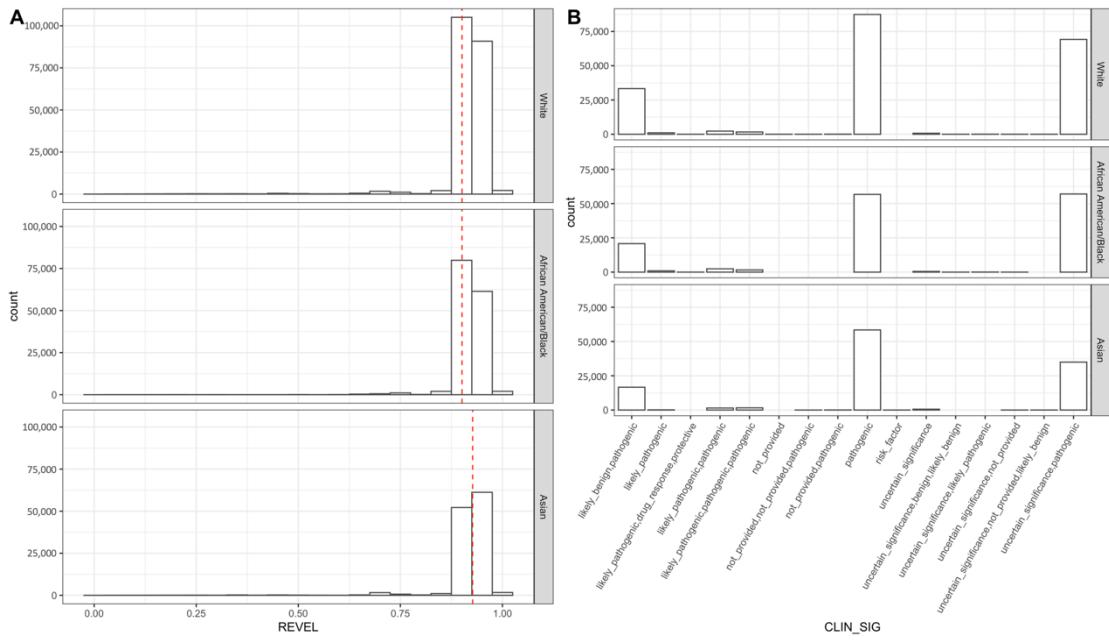
**Figure S4.** HRD-predisposing genes across cancers in the ‘White’ population. Race-specific cancer–gene pairs containing HRD-predisposing variants were identified by SKAT-O and an outlier approach. The color scale represents the number of significant variants of predisposing genes within each cancer cohort.



**Figure S5.** HRD-predisposing genes across cancers in the ‘African American/AA/B’ (AA/B) population. Race-specific cancer–gene pairs containing HRD-predisposing variants were identified by SKAT-O and an outlier approach. The color scale represents the number of significant variants of predisposing genes within each cancer cohort.



**Figure S6.** HRD-predisposing genes across cancers in the ‘Asian’ population. Race-specific cancer–gene pairs containing HRD-predisposing variants were identified by SKAT-O and an outlier approach. The color scale represents the number of significant variants of predisposing genes within each cancer cohort.



**Figure S7.** Summary of the validations of the most significant variants identified by groupwise association tests. (A) The histogram of the sample counts of pathogenicity scores of variants validated by the REVEL database are stratified by racial population. Red dashed lines represent the median of the pathogenicity scores across races. REVEL scores above 0.5 represent a likely disease-causing variant. (B) The histogram of the sample counts of pathogenicity scores of variants validated by ClinVar database are stratified by racial population. Although the labels on the graph have various mixtures, five important levels of variants generally defined in this database are as follows: pathogenic, likely pathogenic, uncertain significance, likely benign and benign.

**Table S1.** Summary of cancers with significant racial differences ( $p < 0.05$ ) in terms of the incidence of HRD or global mutation patterns.

| Among three populations <sup>1</sup> | Between two populations <sup>1</sup> |                          |                        |
|--------------------------------------|--------------------------------------|--------------------------|------------------------|
|                                      | White vs. AA/B                       | White vs. Asian          | AA/B vs. Asian         |
| <b>● Genetic features: HRD</b>       |                                      |                          |                        |
| <b>BLCA (p&lt;0.001)<sup>2</sup></b> | <b>BRCA (p&lt;0.001)</b>             | <b>BLCA (p&lt;0.001)</b> | <b>BLCA (p=0.0012)</b> |
| <b>BRCA (p&lt;0.001)</b>             | <b>HNSC (p&lt;0.001)</b>             | <b>BRCA (p=0.0018)</b>   | <b>HNSC (p=0.0047)</b> |
| HNSC (p<0.001)                       | KIRP (p=0.031)                       | <b>LIHC (p=0.007)</b>    | UCEC (p<0.001)         |
| <b>LIHC (p=0.01)</b>                 | UCEC (p<0.001)                       | UCEC (p=0.029)           |                        |
| UCEC (p<0.001)                       | Pan-cancer (p<0.001)                 | Pan-cancer (p<0.001)     |                        |
| Pan-cancer (p<0.001)                 |                                      |                          |                        |
| <b>● Genetic features: TMB</b>       |                                      |                          |                        |
| <b>BLCA (p&lt;0.001)</b>             | <b>BRCA (p=0.025)</b>                | <b>BLCA (p&lt;0.001)</b> | <b>BLCA (p=0.022)</b>  |
| <b>BRCA (p&lt;0.001)</b>             | LUAD (p=0.017)                       | <b>BRCA (p=0.025)</b>    | CESC (p=0.044)         |
| CESC (p = 0.02)                      |                                      | CESC (p=0.017)           |                        |
| <b>LIHC (p = 0.019)</b>              |                                      | ESCA (p<0.001)           |                        |
|                                      |                                      | <b>LIHC (p=0.026)</b>    |                        |

<sup>1</sup> Wilcoxon rank-sum tests or Kruskal-Wallis tests were conducted to compare the difference of these genetic features across populations and the false discovery rate was used for the correlation of multiple comparisons if necessary. A p-value of less than 0.05 is reported as statistically significant.

<sup>2</sup> A bold font indicates that both genetic features showed racial differences in these cancer types.

**Table S2.** Lists of cancer-associated genes with statistically significant variants that are specific to race.

| Race  | Cancer | # of<br>sig_variants | # of<br>sig_genes | Hugo_Symbol  |
|-------|--------|----------------------|-------------------|--|
| Asian | BLCA   | 7                    | 1                 | <i>TP53</i>  |
| Asian | BRCA   | 62                   | 41                | <i>ATM,TP53</i>  |
| Asian | COAD   | 47                   | 43                | <i>TP53,ERCC2</i>  |
| Asian | ESCA   | 57                   | 33                | <i>PTPRC,PARP1,PARPBP,ALKBH2,RFC5,BRCA2,CLDN10,MLH3,ALKBH1,RAD51,NEIL1,MRF4L1,POLG,SMG1,NTHL1,NFATC2IP,BRCA1,RAD51C,TP53,ENDOV,PER1,XRCC1,RIF1,STK36,MXI,XRCC6,MBD4,TOPBP1,TOP2B,MLH1,PLRG1,HELQ,REV3L,CD109,TTK,EGFR,RECQL4,RAD54B,BRCC3,POLA1,APEX2</i>  |
| Asian | HNSC   | 12                   | 1                 | <i>SPRTN,EXO1,RPA2,DNA2,PTEN,HELLS,ATM,SSRP1,POLD3,WEE1,PRICKLE1,CUL4A,XRC3,TDP1,TP53BP1,BLM,SMG1,BRCA1,TP53,PER1,FOSB,MCM6,GRB14,SMC6,PMS1,INO80D,BRE,MSH6,APLF,RTEL1,MXI,CHEK2,FANCD2,POLO,TOPBP1,XPC,ATR,ATRIP,BAP1,MND1,UIMC1,RAD17,MSH3,ASCC3,SHPRH,ETV7,TTK,MMS22L,NAMPT,EGFR,RECQL4,NBN,RAD54B,ABL1,FANCB,RPA4</i>  |
| Asian | LIHC   | 4                    | 1                 | <i>PTPRC,PARP1,SPRTN,EXO1,RPA2,DNA2,PTEN,HELLS,ATM,SSRP1,POLD3,WEE1,PARPBP,ALKBH2,RFC5,PRICKLE1,CUL4A,BRCA2,CLDN10,XRCC3,MLH3,ALKBH1,TDP1,RAD51,TP53BP1,NEIL1,MORF4L1,POLG,BLM,SMG1,NTHL1,NFATC2IP,BRCA1,RAD51C,TP53,ENDO,V,PER1,XRCC1,FOSB,MCM6,RIF1,GRB14,SMC6,PMS1,INO80D,STK36,MSH6,APLF,RTEL1,MXI,CHEK2,XRCC6,FANCD2,POLO,MBD4,TOPBP1,XPC,ATR,TOP2B,MLH1,ATRIP,BAP1,MND1,PLRG1,HELQ,UIMC1,RAD17,MSH3,ASCC3,REV3L,SHPRH,ETV7,CD109,TTK,MMS22L,NAMPT,EGFR,RECQL4,NBN,RAD54B,ABL1,FANCB,BRCC3,POLA1,APEX2,RPA4</i> |

|       |      |     |     |  |
|-------|------|-----|-----|--|
| Asian | PAAD | 6   | 2   | <i>CLK2, HFM1, MMS19, CUL5, POLD3, UNG, RFC3, XRCC3, KIF26A, MNAT1, SMG1, NTHL1, SLX4, TP53, RBBP8, LIG1, RIF1, SMC6, STK36, APLF, RTEL1, CHEK2, MAPK12, KLHDC7B, POLQ, ATR, CDC25A, RAD17, EGFR, RECQL4</i>   |
| Asian | STAD | 205 | 126 | <i>CLK2, UBE2T, RAD54L, HFM1, MMS19, CUL5, POLD3, UNG, RFC3, XRCC3, KIF26A, MNAT1, SMG1, NTHL1, SLX4, NLRC5, TP53, RBBP8, FOSB, LIG1, RIF1, SMC6, STK36, APLF, RTEL1, CHEK2, MAPK12, KLHDC7B, POLQ, ATR, CDC25A, RAD17, GTF2H4, EGFR, RECQL4</i>   |
| Asian | THCA | 7   | 6   | <i>PTPRC, USP1, IFI44L, SMC3, DCLRE1A, NSMCE4A, ATM, LRP4, PARPBP, TDG, POLE, LATS2, NUDT15, FAN1, INO80, TP53BP1, ERCC4, SLX4, USP10, USP7, IKZF3, BRCA1, RAD51C, RECQL5, TP53, POLI, TYMS, ERCC1, NLRP2, XAB2, RIF1, SMC6, MSH2, CDC25B, POLQ, MBD4, TOPBP1, HES1, MLH1, RAD18, SMARCAD1, MSH3, REV3L</i>  |
| Asian | THYM | 2   | 2   | <i>ADAMTS4, PTPRC, SPRTN, EXO1, PLK3, POLL, ERCC6, PARG, PTEN, SSRP1, DDB1, SMUG1, BRCAPCA2, XRCC3, KIF26A, FANCM, PPP4R4, INO80, TP53BP1, POLG, BLM, TELO2, SMG1, PALB2, NSMCE1, NFATC2IP, PPP4C, SLX4, NLRC5, USP7, TOP3A, ATAD5, RAD51D, EME1, RECQL5, TP53, PER1, RBBP8, BABAM1, CHAF1A, ERCC2, FOSB, POLD1, XAB2, SMC6, CUL3, DNMT3A, MSH2, MSH6, FANCL, RSAD2, CDC25B, MX1, TOP3B, CHEK2, KLHDC7B, TOPBP1, ATR, RFC4, TOP2B, WRD48, OGG1, UVSSA, SMARCA5, NEIL3, FAM175A, RAD17, POLK, ASCC3, REV3L, FANCE, POLH, CD109, PMS2, RPA3, RECQL4, TCEA1, ABL1, FANCG, ANXA1</i> |
| Asian | UCEC | 231 | 133 | <i>ADAMTS4, PTPRC, PARP1, EXO1, PLK3, USP1, IFI44L, HFM1, POLL, SMC3, DCLRE1A, NSMCE4A, ERCC6, PARG, DNA2, PTEN, CUL5, ATM, CHEK1, LRP4, SSRP1, DDB1, PARPBP, TDG, RAD9B, POLE, PRICKLE1, SMUG1, TIMELESS, NAP1L1, MFAP5, ERCC5, CUL4A, LATS2, BRCA2, NUDT15, XRCC3, KIF26A, G2E3, FANCM, MLH3, PPP4R4, FAN1, INO80, TP53BP1, FANCI, POLG, BLM, MPG, ERCC4, TELO2, SMG1, PALB2, NSMCE1, NFATC2IP, PPP4C, SLX4, NLRC5, USP10, USP7, TOP3A, ATAD5, RAD51D, IKZF3, BRCA1, EME1, RAD51C, BRIP1, RECQL5, TP53, PER1, ESCO1, RB1</i>   |

|      |      |     |    |  |
|------|------|-----|----|--|
|      |      |     |    | <i>BP8, POLI, TYMS, PPP4R1, BABAM1, CHAF1A, ERCC2, ERCC1, FOSB, LIG1, POLD1, NLRP2, XAB2, RIF1, SMC6, XRCC5, CUL3, DNMT3A, MSH2, MSH6, FANCL, RSAD2, CDC25B, SPO11, RTEL1, MX1, TOP3B, CHEK2, POLR2F, KLHDC7B, POLQ, MBD4, TOPBP1, XPC, ATR, RFC4, HES1, MLH1, WDR48, CDC25A, BAP1, RAD18, OGG1, UVSSA, SMARCA5, NEIL3, HELQ, FAM175A, SMARCA1, RAD50, CDC25C, RAD17, POLK, MSH3, ASCC3, REV3L, RNF8, POLH, CD109, NAMPT, CDK5, PMS2, RPA3, RAD21, NSMCE2, RECQL4, TCEA1, NBN, RAD54B, ABL1, APTX, FANCG, SMC5, ANXA1, RM1, GADD45G, POLA1</i> |
| AA/B | BLCA | 5   | 2  | <i>UBE2T, ALKBH3, RNF169, TIMELESS, FANCM, ALKBH1, TDP1, PPP4R4, SMG1, TOP3A, LIG3, BRCA1, TP53, PPP4R1, CYP2B6, ERCC2, CUL3, SP140L, MSH2, MSH6, TOP3B, APOL3, ATR, HES1, UVSSA, RFC1, MMS22L, EGFR, IDO1, RAD54B, SMC5, TEX11, RPA4</i>  |
| AA/B | BRCA | 103 | 56 | <i>UBE2T, ALKBH3, RNF169, TIMELESS, FANCM, ALKBH1, TDP1, PPP4R4, SMG1, TOP3A, LIG3, BRCA1, TP53, PPP4R1, CYP2B6, ERCC2, CUL3, SP140L, MSH2, MSH6, TOP3B, APOL3, ATR, HES1, UVSSA, RFC1, MMS22L, EGFR, IDO1, RAD54B, SMC5, TEX11, RPA4</i>  |
| AA/B | CESC | 46  | 30 | <i>TP53</i>  |
| AA/B | COAD | 112 | 80 | <i>PPP4R4, TP53</i>  |
| AA/B | HNSC | 17  | 2  | <i>PPP4R4, TP53, SP140L</i>  |
| AA/B | KIRC | 31  | 25 | <i>ORC1, DCLRE1A, ATM, UNG, RAD9B, PRICKLE1, BRCA2, MLH3, TDP1, MORF4L1, ITGAL, SLX4, NLRC5, BRIP1, RNMT, XAB2, INO80D, POLQ, WDR48, BAP1, SMARCAD1, REV3L, INIP, ANXA1, UBRE2A</i>  |
| AA/B | KIRP | 10  | 10 | <i>ORC1, DCLRE1A, ATM, UNG, RAD9B, PRICKLE1, BRCA2, MLH3, TDP1, MORF4L1, ITGAL, SLX4, NLRC5, BRIP1, RNMT, XAB2, INO80D, POLQ, WDR48, BAP1, SMARCAD1, REV3L, INIP, ANXA1, UBRE2A</i>  |
| AA/B | LGG  | 18  | 8  | <i>ALKBH3, PARPBP, SMUG1, ERCC2, SMARCAL1, MSH6, FANCD2, MDC1, UBA1, TEX11</i>   |

|       |      |     |    |  |
|-------|------|-----|----|--|
| AA/B  | LIHC | 13  | 9  | <i>ALKBH3,PARPBP,SMUG1,ERCC2,SMARCAL1,MSH6,FANCD2,MDC1,UBA1,TEX11</i>  |
| AA/B  | LUAD | 126 | 83 | <i>PTEN,ATM,LATS2,TP53,DNMT3A,RNF8,NAMPT,EGFR</i>  |
| AA/B  | LUSC | 46  | 23 | <i>PTEN,ATM,LATS2,TP53,DNMT3A,RNF8,NAMPT,EGFR</i>  |
| AA/B  | OV   | 21  | 10 | <i>TP53</i>  |
| AA/B  | SARC | 25  | 20 | <i>EID3,MFAP5,FANI,TP53,FOSB,CDC25B,TOP2B,RFC1,GADD45G</i>   |
| AA/B  | STAD | 12  | 2  | <i>TP53</i>  |
| AA/B  | THCA | 3   | 3  | <i>DCLRE1B,MAD2L2,PTPRC,MUTYH,RAD54L,ORC1,USP1,IFI44L,GBP5,HFM1,ERCC6,IPMK,DNA2,DNTT,CUL5,ATM,CHEK1,ALKBH3,LRP4,PRPF19,RNF169,EID3,RAD9B,NABP2,TIMELESS,MFAP5,LATS2,BRCA2,RFC3,OLFM4,KIF26A,RAD51B,FANI,SMG1,NTHL1,USP7,LIG3,BRCA1,BRIP1,TP53,RBBP8,CHAF1A,NLRP2,RIF1,PMS1,SP140L,DNMT3A,CDC25B,TOP3B,PRAME,APOL3,POLQ,XPC,ATR,BAP1,SMARCAD1,RAD50,CDC25C,EGR1,RAD17,MSH3,SHPRH,MDC1,FANCE,ETV7,POLH,CD109,TTK,ORC5,NAMPT,PAXIP1,EGFR,WRN,POLB,PI15,ABL1,APTX,GADD45G,UBE2A,FANCB,TREX2,UBA1,TEX11</i> |
| AA/B  | UCEC | 8   | 4  | <i>DCLRE1B,MAD2L2,PTPRC,MUTYH,RAD54L,ORC1,USP1,IFI44L,GBP5,HFM1,ERCC6,IPMK,DNA2,DNTT,CUL5,ATM,CHEK1,ALKBH3,LRP4,PRPF19,RNF169,EID3,RAD9B,NABP2,TIMELESS,MFAP5,LATS2,BRCA2,RFC3,OLFM4,KIF26A,RAD51B,FANI,SMG1,NTHL1,USP7,LIG3,BRCA1,BRIP1,TP53,RBBP8,CHAF1A,NLRP2,RIF1,PMS1,SP140L,DNMT3A,CDC25B,TOP3B,PRAME,APOL3,POLQ,XPC,ATR,BAP1,SMARCAD1,RAD50,CDC25C,EGR1,RAD17,MSH3,SHPRH,MDC1,FANCE,ETV7,POLH,CD109,TTK,ORC5,NAMPT,PAXIP1,EGFR,WRN,POLB,PI15,ABL1,APTX,GADD45G,UBE2A,FANCB,TREX2,UBA1,TEX11</i> |
| White | BLCA | 8   | 2  | <i>ADAMTS4,PTEN,SSRP1,TIMELESS,CUL4A,MLH3,PPP4R4,NEIL1,FANCI,SLX4,TP53,SMC6,RSAD2,PRAME,POLQ,HLTF,RAD1,ERCC8,TTK,ORC5,SMC5,TREX2,POLA1</i>   |

|       |      |     |     |   |
|-------|------|-----|-----|---|
| White | BRCA | 149 | 86  | <i>ADAMTS4,PTEN,SSRP1,TIMELESS,CUL4A,MLH3,PPP4R4,NEIL1,FANCI,SLX4,TP53,SMC6,RSAD2,PRAME,POLQ,HLTF,RAD1,ERCC8,TTK,ORC5,SMC5,TREX2,POLA1</i>  |
| White | CESC | 54  | 35  | <i>ADAMTS4,LRP4,TIMELESS,ERCC5,PARP2,FANCM,SMG1,TP53,RIF1,CUL3</i>  |
| White | COAD | 262 | 149 | <i>ADAMTS4,LRP4,TIMELESS,ERCC5,PARP2,FANCM,SMG1,TP53,RIF1,CUL3</i>  |
| White | ESCA | 57  | 33  | <i>TP53,TOP2B</i>   |
| White | HNSC | 19  | 3   | <i>TP53,TOP2B</i>   |
| White | KIRC | 31  | 25  | <i>DCLRE1B,WEE1,GTF2H3,PRICKLE1,LATS2,FAN1,DNASE1L2,PPP4C,TP53,RBBP8,XRCCI,POLD1,REV1,RIF1,GEN1,CHEK2,HELQ,SHPRH,EGFR,APEX2</i>   |
| White | KIRP | 10  | 10  | <i>DCLRE1B,WEE1,GTF2H3,PRICKLE1,LATS2,FAN1,DNASE1L2,PPP4C,TP53,RBBP8,XRCCI,POLD1,REV1,RIF1,GEN1,CHEK2,HELQ,SHPRH,EGFR,APEX2</i>   |
| White | LGG  | 18  | 8   | <i>DCLRE1B,CD2,ADAMTS4,PTPRC,RAD54L,GBP5,HFM1,SMC3,ERCC6,DNA2,PTEN,DNTT,CUL5,ATM,CHEK1,LRP4,SSRP1,PRPF19,DDB1,FEN1,MUS81,WEE1,PARPBP,TDG,EID3,UNG,POLE,PRICKLE1,TIMELESS,CUL4A,LATS2,BRCA2,OLFM4,KIF26A,APEXI,FANCM,POLE2,MLH3,ALKBH1,FAN1,TP53BP1,BLM,ERCC4,TELO2,SMG1,NFATC2IP,PPP4C,SLX4,NLRC5,FANCA,USP7,LIG3,IKZF3,BRIP1,TP53,ESCO1,XRCCI,ERCC2,ERCC1,LIG1,POLD1,NLRP2,XAB2,ERCC3,MCM6,RIF1,PMS1,INO80D,BARD1,XRCC5,SMARCAL1,STK36,CUL3,BRE,MSH2,MSH6,APLF,CDC25B,SPO11,PRAME,DMC1,KLHDC7B,FANCD2,POLQ,MCM2,TOPBP1,TOP2B,WDR48,SMARCC1,PARP3,BAP1,RAD18,UVSSA,SMARCA5,MND1,PLRG1,NEIL3,POLN,FAM175A,SMARCAD1,RAD50,POLK,MSH3,ASCC3,REV3L,SHPRH,ESR1,MDC1,GTF2H4,MCM3,MMS22L,PAXIP1,MPLKIP,POLD2,PMS2,RECQL4,NUDT18,WRN,POLB,PI15,NBN,SMC5,ANXA1,CDR1,TREX2,APEX2</i> |
| White | LIHC | 4   | 1   | <i>PTEN,TP53</i>  |

|       |      |     |     |   |
|-------|------|-----|-----|---|
| White | LUAD | 126 | 83  | <i>DCLRE1B, CD2, ADAMTS4, PTPRC, RAD54L, USP1, GBP5, HFM1, SMC3, MGMT, ERCC6, DNA2, PTEN, DNNT, MMS19, CUL5, ATM, CHEK1, LRP4, SSRP1, PRPF19, DDB1, FEN1, MUS81, RNF169, WEE1, PARPBP, TDG, EID3, UNG, POLE, RECQL, PRICKLE1, TIMELESS, CUL4A, LATS2, PARP4, BRCA2, NUDT15, OLFM4, XRCC3, KIF26A, APEX1, FANCM, POLE2, MLH3, ALKBH1, FAN1, TP53BP1, MORF4L1, FANCI, BLM, RMI2, ERCC4, TELO2, SMG1, NFATC2IP, PPP4C, ITGAL, SLX4, NLR5, USP10, FANCA, USP7, LIG3, RDM1, IKZF3, BRIP1, TP53, RNMT, ESCO1, CYP2B6, XRCC1, ERCC2, ERCC1, LIG1, POLD1, NLRP2, XAB2, ERCC3, MCM6, RIF1, PMS1, INO80D, BARD1, XRCC5, SMARCAL1, STK36, CUL3, BRE, MSH2, MSH6, APLF, CDC25B, SPO11, PRAME, DMC1, KLHDC7B, FANCD2, POLQ, MCM2, TOPBP1, HLTf, TOP2B, WDR48, SMARCC1, PARP3, BAP1, RAD18, UVSSA, SMARCA5, MND1, PLRG1, NEIL3, POLN, FAMI175A, SMARCAD1, RAD50, RAD17, POLK, MSH3, XRCC4, ASCC3, REV3L, SHPRH, ESR1, MDC1, GTF2H4, CDC5L, MCM3, MMS22L, PAXIP1, MPLKIP, POLD2, PMS2, NSMCE2, RECQL4, NUDT18, WRN, POLB, PI15, NBN, ABL1, SMC5, ANXA1, CDC14B, CDR1, TREX2, UBA1, APEX2</i> |
| White | LUSC | 46  | 23  | <i>NAP1L1, XRCC3, TDPI, RSAD2, CHEK2, FANCE</i>   |
| White | OV   | 21  | 10  | <i>GBP5, SMG1, PSMC3IP</i>  |
| White | PAAD | 6   | 2   | <i>GBP5, NAP1L1, XRCC3, TDPI, SMG1, PSMC3IP, RSAD2, CHEK2, FANCE</i>  |
| White | SARC | 25  | 20  | <i>RNF169, RAD18</i>  |
| White | STAD | 269 | 150 | <i>RNF169, RAD18</i>  |
| White | THCA | 10  | 9   | <i>PRMT6, DCLRE1B, BCAS2, PTPRC, SPRTN, EXO1, GADD45A, IFI44L, HFM1, SMC3, DCLRE1A, PARG, DNA2, PTEN, ATM, DDB2, PRPF19, WEE1, EID3, POLE, TIMELESS, NAP1L1, MFAP5, LIG4, LATS2, PARP4, BRCA2, OLFM4, G2E3, FANCM, MLH3, PPP4R4, FAN1, RAD51, INO80, NEIL1, FANC1, POLG, BLM, ERCC4, SMG1, PALB2, PPP4C, ITGAL, SLX4, NLR5, USP7, RPA1, ATAD5, LIG3, BRCA1, EME1, BRIP1, TP53, PER1, RNMT, ESCO1, CYP2B6, XRCC1, CHAF1A, NLRP2, ERCC3, MLL4</i>   |

|       |      |     |   |
|-------|------|-----|---|
|       |      |     | <i>CM6, RIF1, SMC6, GEN1, PMS1, NHEJ1, SP140L, DNMT3A, BRE, MSH6, FANCL, APLF, RSAD2, MRPL40, CHEK2, KLHDC7B, POLQ, MCM2, TOPBP1, XPC, ATR, HLT, RNF168, TOP2B, MLH1, WDR48, SMARCC1, PARP3, PPP4R2, RAD18, MND1, PLRG1, NEIL3, HELQ, UIMC1, RAD1, CDK7, RAD17, POLK, CCNH, ASCC3, REV3L, TDP2, MDC1, ETV7, CDC5L, CD109, TTK, MMS22L, CDK5, PMS2, RFC2, RAD21, NAT1, IDO1, POLB, NBN, RAD54B, RAD23B, ABL1, APTX, RMI1, FANCC, CDR1, FANCB, CETN2, BRCC3, POLA1, UBA1, APEX2, TEX11</i>  |
| White | THYM | 2   | <i>PTEN, SLX4, TP53, ERCC3</i>  |
| White | UCEC | 312 | <i>BCAS2, CD2, CLK2, ADAMTS4, PTPRC, PARP1, EXO1, RPA2, PLK3, MUTYH, ORC1, GBP5, SMC3, IPMK, PTEN, HELLS, DNNT, CUL5, ATM, GTF2H1, FANCF, ALKBH3, LRP4, DDB2, SSRP1, DDB1, KAT5, RAD9A, RAD52, EID3, RAD9B, POLE, PRICKLE1, TIMELESS, MFAP5, ERCC5, LIG4, PARP4, HMGB1, BRCA2, PARP2, FANCM, POLE2, MNAT1, MLH3, ALKBH1, PPP4R4, FAN1, INO80, TP53BP1, DUT, NEIL1, AEN, FANCI, BLM, ERCC4, SMG1, PPP4C, ITGAL, SLX4, NLRC5, FANCA, USP7, TOP3A, ATAD5, LIG3, RAD51D, IKZF3, BRCA1, EME1, RAD51C, BRIP1, RECQL5, TP53, PER1, ESCO1, RBBP8, POLI, RAD23A, BABAMI, XRCC1, ERCC2, ERCC1, LIG1, POLD1, NLRP2, XAB2, REV1, ERCC3, MCM6, RIF1, SMC6, GEN1, PMS1, INO80D, SMARCAL1, STK36, CUL3, SP140L, DNMT3A, MSH2, MSH6, RTEL1, TOP3B, CHEK2, XRCC6, POLQ, MCM2, TOPBP1, XPC, ATR, HLT, HES1, TOP2B, SMARCC1, CDC25A, ATRIP, BAPI, PPP4R2, RAD18, UVSSA, SMARCA5, MND1, PLRG1, POLN, RFC1, HELQ, SMARCAD1, RAD50, POLK, MSH3, XRCC4, CCNH, REV3L, SHPRH, ESR1, MDCL1, FANCE, ETV7, POLH, CDC5L, CD109, TTK, MMS22L, ORC5, EGFR, NAT1, WRN, NBN, RAD54B, SWI5, FANCG, SMC5, ANXA1, RMI1, CDC14B, POLA1, UBA1</i> |

**Table S3.** Annotation of statistically significant variants identified by RIFT R package according to REVEAL and ClinVar databases.

| SNP_detail      | Hugo_Symbol    | SNP_info    | Race  | Cancer | RSID | REVEL | CLIN_SIG |
|-----------------|----------------|-------------|-------|--------|------|-------|----------|
| 1:107600080-C/T | <i>PRMT6</i>   | 1:107600080 | Asian | UCEC   | NA   | 0.245 | .        |
| 1:114449708-C/A | <i>DCLRE1B</i> | 1:114449708 | White | STAD   | NA   | 0.506 | .        |
| 1:114449708-C/A | <i>DCLRE1B</i> | 1:114449708 | Asian | STAD   | NA   | 0.506 | .        |
| 1:114449714-G/T | <i>DCLRE1B</i> | 1:114449714 | Asian | UCEC   | NA   | 0.871 | .        |
| 1:114449769-C/T | <i>DCLRE1B</i> | 1:114449769 | AA/B  | SARC   | NA   | 0.509 | .        |
| 1:114449769-C/T | <i>DCLRE1B</i> | 1:114449769 | White | SARC   | NA   | 0.509 | .        |
| 1:114450790-A/C | <i>DCLRE1B</i> | 1:114450790 | White | LUAD   | NA   | 0.52  | .        |
| 1:114450790-A/C | <i>DCLRE1B</i> | 1:114450790 | AA/B  | LUAD   | NA   | 0.52  | .        |
| 1:114454281-C/T | <i>DCLRE1B</i> | 1:114454281 | White | STAD   | NA   | 0.332 | .        |
| 1:115112680-C/A | <i>BCAS2</i>   | 1:115112680 | Asian | UCEC   | NA   | 0.448 | .        |
| 1:115118260-G/T | <i>BCAS2</i>   | 1:115118260 | White | UCEC   | NA   | 0.538 | .        |
| 1:117307144-G/A | <i>CD2</i>     | 1:117307144 | White | STAD   | NA   | 0.295 | .        |
| 1:117307144-G/A | <i>CD2</i>     | 1:117307144 | Asian | STAD   | NA   | 0.295 | .        |
| 1:117311199-C/T | <i>CD2</i>     | 1:117311199 | White | UCEC   | NA   | 0.056 | .        |
| 1:11737658-G/A  | <i>MAD2L2</i>  | 1:11737658  | AA/B  | LUAD   | NA   | 0.694 | .        |
| 1:11737658-G/A  | <i>MAD2L2</i>  | 1:11737658  | White | LUAD   | NA   | 0.694 | .        |
| 1:155234456-C/T | <i>CLK2</i>    | 1:155234456 | White | UCEC   | NA   | 0.463 | .        |
| 1:155234529-G/A | <i>CLK2</i>    | 1:155234529 | White | UCEC   | NA   | 0.538 | .        |
| 1:155235704-C/T | <i>CLK2</i>    | 1:155235704 | White | CESC   | NA   | 0.609 | .        |
| 1:155235704-C/T | <i>CLK2</i>    | 1:155235704 | AA/B  | CESC   | NA   | 0.609 | .        |
| 1:161161052-C/G | <i>ADAMTS4</i> | 1:161161052 | AA/B  | COAD   | NA   | 0.333 | .        |

|                 |                |             |       |      |    |       |   |
|-----------------|----------------|-------------|-------|------|----|-------|---|
| 1:161161052-C/G | <i>ADAMTS4</i> | 1:161161052 | White | COAD | NA | 0.333 | . |
| 1:161161302-C/A | <i>ADAMTS4</i> | 1:161161302 | AA/B  | OV   | NA | 0.344 | . |
| 1:161161302-C/A | <i>ADAMTS4</i> | 1:161161302 | White | OV   | NA | 0.344 | . |
| 1:161163164-C/T | <i>ADAMTS4</i> | 1:161163164 | AA/B  | COAD | NA | 0.436 | . |
| 1:161163164-C/T | <i>ADAMTS4</i> | 1:161163164 | White | COAD | NA | 0.436 | . |
| 1:161163934-G/A | <i>ADAMTS4</i> | 1:161163934 | White | STAD | NA | 0.209 | . |
| 1:161163934-G/A | <i>ADAMTS4</i> | 1:161163934 | Asian | STAD | NA | 0.209 | . |
| 1:161166090-G/T | <i>ADAMTS4</i> | 1:161166090 | White | UCEC | NA | 0.784 | . |
| 1:161166534-C/A | <i>ADAMTS4</i> | 1:161166534 | White | UCEC | NA | 0.766 | . |
| 1:161166602-G/T | <i>ADAMTS4</i> | 1:161166602 | AA/B  | LUSC | NA | 0.582 | . |
| 1:161166602-G/T | <i>ADAMTS4</i> | 1:161166602 | White | LUSC | NA | 0.582 | . |
| 1:161166670-G/A | <i>ADAMTS4</i> | 1:161166670 | White | COAD | NA | 0.549 | . |
| 1:198676019-T/C | <i>PTPRC</i>   | 1:198676019 | Asian | UCEC | NA | 0.139 | . |
| 1:198677355-G/C | <i>PTPRC</i>   | 1:198677355 | AA/B  | LUAD | NA | 0.246 | . |
| 1:198677355-G/C | <i>PTPRC</i>   | 1:198677355 | White | LUAD | NA | 0.246 | . |
| 1:198685876-A/C | <i>PTPRC</i>   | 1:198685876 | White | STAD | NA | 0.34  | . |
| 1:198685876-A/C | <i>PTPRC</i>   | 1:198685876 | Asian | STAD | NA | 0.34  | . |
| 1:198685877-C/T | <i>PTPRC</i>   | 1:198685877 | White | UCEC | NA | 0.291 | . |
| 1:198687382-G/T | <i>PTPRC</i>   | 1:198687382 | White | STAD | NA | 0.339 | . |
| 1:198687382-G/T | <i>PTPRC</i>   | 1:198687382 | Asian | STAD | NA | 0.339 | . |
| 1:198687388-T/C | <i>PTPRC</i>   | 1:198687388 | White | STAD | NA | 0.406 | . |
| 1:198700772-G/A | <i>PTPRC</i>   | 1:198700772 | White | UCEC | NA | 0.277 | . |
| 1:198700805-T/A | <i>PTPRC</i>   | 1:198700805 | AA/B  | LUAD | NA | 0.585 | . |

|                 |              |             |       |      |    |       |   |
|-----------------|--------------|-------------|-------|------|----|-------|---|
| 1:198700805-T/A | <i>PTPRC</i> | 1:198700805 | White | LUAD | NA | 0.585 | . |
| 1:198703333-A/T | <i>PTPRC</i> | 1:198703333 | AA/B  | LUAD | NA | 0.457 | . |
| 1:198703333-A/T | <i>PTPRC</i> | 1:198703333 | White | LUAD | NA | 0.457 | . |
| 1:198703522-G/A | <i>PTPRC</i> | 1:198703522 | AA/B  | COAD | NA | 0.402 | . |
| 1:198703522-G/A | <i>PTPRC</i> | 1:198703522 | White | COAD | NA | 0.402 | . |
| 1:198711070-G/C | <i>PTPRC</i> | 1:198711070 | White | BRCA | NA | 0.447 | . |
| 1:198711070-G/C | <i>PTPRC</i> | 1:198711070 | Asian | BRCA | NA | 0.447 | . |
| 1:198721444-G/T | <i>PTPRC</i> | 1:198721444 | White | COAD | NA | 0.281 | . |
| 1:198721444-G/T | <i>PTPRC</i> | 1:198721444 | Asian | COAD | NA | 0.281 | . |
| 1:198723441-C/T | <i>PTPRC</i> | 1:198723441 | Asian | UCEC | NA | 0.297 | . |
| 1:198723454-C/T | <i>PTPRC</i> | 1:198723454 | White | COAD | NA | 0.524 | . |
| 1:198725100-G/T | <i>PTPRC</i> | 1:198725100 | Asian | UCEC | NA | 0.126 | . |
| 1:202302388-C/T | <i>UBE2T</i> | 1:202302388 | White | CESC | NA | 0.232 | . |
| 1:202302447-G/T | <i>UBE2T</i> | 1:202302447 | Asian | ESCA | NA | 0.557 | . |
| 1:202302447-G/T | <i>UBE2T</i> | 1:202302447 | White | ESCA | NA | 0.557 | . |
| 1:226555974-G/A | <i>PARP1</i> | 1:226555974 | White | UCEC | NA | 0.578 | . |
| 1:226566885-G/C | <i>PARP1</i> | 1:226566885 | Asian | BRCA | NA | 0.516 | . |
| 1:226566885-G/C | <i>PARP1</i> | 1:226566885 | White | BRCA | NA | 0.516 | . |
| 1:226567282-G/T | <i>PARP1</i> | 1:226567282 | White | COAD | NA | 0.365 | . |
| 1:231483640-G/A | <i>SPRTN</i> | 1:231483640 | AA/B  | BRCA | NA | 0.632 | . |
| 1:231483640-G/A | <i>SPRTN</i> | 1:231483640 | AA/B  | COAD | NA | 0.632 | . |
| 1:231483640-G/A | <i>SPRTN</i> | 1:231483640 | White | BRCA | NA | 0.632 | . |
| 1:231487101-C/T | <i>SPRTN</i> | 1:231487101 | AA/B  | BRCA | NA | 0.482 | . |

|                 |               |             |       |      |    |       |   |
|-----------------|---------------|-------------|-------|------|----|-------|---|
| 1:231487101-C/T | <i>SPRTN</i>  | 1:231487101 | White | BRCA | NA | 0.482 | . |
| 1:231488746-G/T | <i>SPRTN</i>  | 1:231488746 | Asian | UCEC | NA | 0.04  | . |
| 1:231488909-A/C | <i>SPRTN</i>  | 1:231488909 | Asian | UCEC | NA | 0.069 | . |
| 1:242020654-G/A | <i>EXO1</i>   | 1:242020654 | Asian | UCEC | NA | 0.449 | . |
| 1:242023969-G/T | <i>EXO1</i>   | 1:242023969 | White | UCEC | NA | 0.327 | . |
| 1:242024745-G/C | <i>EXO1</i>   | 1:242024745 | White | BRCA | NA | 0.731 | . |
| 1:242024745-G/C | <i>EXO1</i>   | 1:242024745 | AA/B  | BRCA | NA | 0.731 | . |
| 1:242030154-G/C | <i>EXO1</i>   | 1:242030154 | White | COAD | NA | 0.086 | . |
| 1:242030154-G/C | <i>EXO1</i>   | 1:242030154 | AA/B  | COAD | NA | 0.086 | . |
| 1:242030318-C/A | <i>EXO1</i>   | 1:242030318 | White | COAD | NA | 0.106 | . |
| 1:242030318-C/A | <i>EXO1</i>   | 1:242030318 | AA/B  | COAD | NA | 0.106 | . |
| 1:242035389-G/T | <i>EXO1</i>   | 1:242035389 | White | COAD | NA | 0.117 | . |
| 1:28233489-C/A  | <i>RPA2</i>   | 1:28233489  | White | UCEC | NA | 0.6   | . |
| 1:28233517-C/A  | <i>RPA2</i>   | 1:28233517  | White | BRCA | NA | 0.062 | . |
| 1:28233517-C/A  | <i>RPA2</i>   | 1:28233517  | AA/B  | BRCA | NA | 0.062 | . |
| 1:45267334-A/G  | <i>PLK3</i>   | 1:45267334  | White | UCEC | NA | 0.545 | . |
| 1:45268739-C/T  | <i>PLK3</i>   | 1:45268739  | White | COAD | NA | 0.442 | . |
| 1:45268739-C/T  | <i>PLK3</i>   | 1:45268739  | AA/B  | COAD | NA | 0.442 | . |
| 1:45797719-C/A  | <i>MUTYH</i>  | 1:45797719  | White | LUAD | NA | 0.064 | . |
| 1:45797719-C/A  | <i>MUTYH</i>  | 1:45797719  | AA/B  | LUAD | NA | 0.064 | . |
| 1:45798257-C/T  | <i>MUTYH</i>  | 1:45798257  | White | UCEC | NA | 0.746 | . |
| 1:46715746-G/C  | <i>RAD54L</i> | 1:46715746  | White | CESC | NA | 0.408 | . |
| 1:46724394-A/G  | <i>RAD54L</i> | 1:46724394  | AA/B  | LUAD | NA | 0.273 | . |

|                |                |            |       |      |    |       |   |
|----------------|----------------|------------|-------|------|----|-------|---|
| 1:46724394-A/G | <i>RAD54L</i>  | 1:46724394 | White | LUAD | NA | 0.273 | . |
| 1:46739833-G/A | <i>RAD54L</i>  | 1:46739833 | Asian | STAD | NA | 0.902 | . |
| 1:46739833-G/A | <i>RAD54L</i>  | 1:46739833 | White | STAD | NA | 0.902 | . |
| 1:46740228-A/G | <i>RAD54L</i>  | 1:46740228 | Asian | STAD | NA | 0.75  | . |
| 1:46740228-A/G | <i>RAD54L</i>  | 1:46740228 | White | STAD | NA | 0.75  | . |
| 1:52841232-T/C | <i>ORC1</i>    | 1:52841232 | AA/B  | LUAD | NA | 0.171 | . |
| 1:52841232-T/C | <i>ORC1</i>    | 1:52841232 | White | LUAD | NA | 0.171 | . |
| 1:52841244-G/A | <i>ORC1</i>    | 1:52841244 | White | KIRC | NA | 0.579 | . |
| 1:52841244-G/A | <i>ORC1</i>    | 1:52841244 | AA/B  | KIRC | NA | 0.579 | . |
| 1:52849096-C/T | <i>ORC1</i>    | 1:52849096 | AA/B  | LUAD | NA | 0.617 | . |
| 1:52849096-C/T | <i>ORC1</i>    | 1:52849096 | White | LUAD | NA | 0.617 | . |
| 1:52849519-C/T | <i>ORC1</i>    | 1:52849519 | White | UCEC | NA | 0.475 | . |
| 1:52861993-T/G | <i>ORC1</i>    | 1:52861993 | White | UCEC | NA | 0.429 | . |
| 1:62905615-A/C | <i>USP1</i>    | 1:62905615 | Asian | COAD | NA | 0.184 | . |
| 1:62905615-A/C | <i>USP1</i>    | 1:62905615 | White | COAD | NA | 0.184 | . |
| 1:62910485-C/G | <i>USP1</i>    | 1:62910485 | AA/B  | LUAD | NA | 0.4   | . |
| 1:62910485-C/G | <i>USP1</i>    | 1:62910485 | White | LUAD | NA | 0.4   | . |
| 1:62910879-A/C | <i>USP1</i>    | 1:62910879 | White | STAD | NA | 0.164 | . |
| 1:62916312-A/C | <i>USP1</i>    | 1:62916312 | White | COAD | NA | 0.231 | . |
| 1:68152160-G/T | <i>GADD45A</i> | 1:68152160 | Asian | UCEC | NA | 0.801 | . |
| 1:79094666-G/T | <i>IFI44L</i>  | 1:79094666 | AA/B  | LUAD | NA | 0.039 | . |
| 1:79094666-G/T | <i>IFI44L</i>  | 1:79094666 | White | LUAD | NA | 0.039 | . |
| 1:79101116-G/C | <i>IFI44L</i>  | 1:79101116 | White | LUAD | NA | 0.137 | . |

|                |               |            |       |      |    |       |   |
|----------------|---------------|------------|-------|------|----|-------|---|
| 1:79101116-G/C | <i>IFI44L</i> | 1:79101116 | AA/B  | LUAD | NA | 0.137 | . |
| 1:79102721-A/C | <i>IFI44L</i> | 1:79102721 | Asian | UCEC | NA | 0.054 | . |
| 1:79107273-G/T | <i>IFI44L</i> | 1:79107273 | Asian | COAD | NA | 0.198 | . |
| 1:79107273-G/T | <i>IFI44L</i> | 1:79107273 | White | COAD | NA | 0.198 | . |
| 1:89726496-T/A | <i>GBP5</i>   | 1:89726496 | White | LUAD | NA | 0.145 | . |
| 1:89726496-T/A | <i>GBP5</i>   | 1:89726496 | AA/B  | LUAD | NA | 0.145 | . |
| 1:89732073-G/T | <i>GBP5</i>   | 1:89732073 | White | UCEC | NA | 0.519 | . |
| 1:89732216-G/C | <i>GBP5</i>   | 1:89732216 | White | THCA | NA | 0.448 | . |
| 1:89732216-G/C | <i>GBP5</i>   | 1:89732216 | AA/B  | THCA | NA | 0.448 | . |
| 1:89732235-C/T | <i>GBP5</i>   | 1:89732235 | Asian | STAD | NA | 0.569 | . |
| 1:89732235-C/T | <i>GBP5</i>   | 1:89732235 | White | STAD | NA | 0.569 | . |
| 1:91784878-A/C | <i>HFM1</i>   | 1:91784878 | Asian | STAD | NA | 0.103 | . |
| 1:91784878-A/C | <i>HFM1</i>   | 1:91784878 | Asian | STAD | NA | 0.541 | . |
| 1:91784878-A/C | <i>HFM1</i>   | 1:91784878 | White | STAD | NA | 0.103 | . |
| 1:91784878-A/C | <i>HFM1</i>   | 1:91784878 | White | STAD | NA | 0.541 | . |
| 1:91784910-C/G | <i>HFM1</i>   | 1:91784910 | White | CESC | NA | 0.75  | . |
| 1:91784910-C/G | <i>HFM1</i>   | 1:91784910 | White | CESC | NA | 0.437 | . |
| 1:91784910-C/G | <i>HFM1</i>   | 1:91784910 | AA/B  | CESC | NA | 0.75  | . |
| 1:91784910-C/G | <i>HFM1</i>   | 1:91784910 | AA/B  | CESC | NA | 0.437 | . |
| 1:91788701-T/G | <i>HFM1</i>   | 1:91788701 | Asian | UCEC | NA | 0.904 | . |
| 1:91788701-T/G | <i>HFM1</i>   | 1:91788701 | Asian | UCEC | NA | 0.43  | . |
| 1:91788737-C/A | <i>HFM1</i>   | 1:91788737 | White | LUAD | NA | 0.524 | . |
| 1:91788737-C/A | <i>HFM1</i>   | 1:91788737 | White | LUAD | NA | 0.146 | . |

|                  |                |              |       |      |                |       |   |
|------------------|----------------|--------------|-------|------|----------------|-------|---|
| 1:91788737-C/A   | <i>HFM1</i>    | 1:91788737   | AA/B  | LUAD | NA             | 0.524 | . |
| 1:91788737-C/A   | <i>HFM1</i>    | 1:91788737   | AA/B  | LUAD | NA             | 0.146 | . |
| 1:91809039-T/A   | <i>HFM1</i>    | 1:91809039   | White | COAD | NA             | 0.6   | . |
| 1:91809039-T/A   | <i>HFM1</i>    | 1:91809039   | White | COAD | NA             | 0.734 | . |
| 1:91817190-G/C   | <i>HFM1</i>    | 1:91817190   | Asian | STAD | NA             | 0.613 | . |
| 1:91817190-G/C   | <i>HFM1</i>    | 1:91817190   | White | STAD | NA             | 0.613 | . |
| 1:91818152-T/C   | <i>HFM1</i>    | 1:91818152   | Asian | UCEC | NA             | 0.795 | . |
| 1:91818677-C/T   | <i>HFM1</i>    | 1:91818677   | AA/B  | CESC | NA             | 0.757 | . |
| 1:91818677-C/T   | <i>HFM1</i>    | 1:91818677   | White | CESC | NA             | 0.757 | . |
| 1:91840948-G/T   | <i>HFM1</i>    | 1:91840948   | AA/B  | LUAD | NA             | 0.23  | . |
| 1:91840948-G/T   | <i>HFM1</i>    | 1:91840948   | White | LUAD | NA             | 0.23  | . |
| 10:103339220-C/T | <i>POLL</i>    | 10:103339220 | White | COAD | rs1225798009   | 0.87  | . |
| 10:103339220-C/T | <i>POLL</i>    | 10:103339220 | AA/B  | COAD | rs1225798009   | 0.87  | . |
| 10:112337595-C/G | <i>SMC3</i>    | 10:112337595 | White | COAD | NA             | 0.479 | . |
| 10:112337595-C/G | <i>SMC3</i>    | 10:112337595 | Asian | COAD | NA             | 0.479 | . |
| 10:112342324-C/A | <i>SMC3</i>    | 10:112342324 | White | UCEC | NA             | 0.471 | . |
| 10:112349463-G/T | <i>SMC3</i>    | 10:112349463 | White | COAD | NA             | 0.754 | . |
| 10:112352843-A/G | <i>SMC3</i>    | 10:112352843 | White | STAD | NA             | 0.754 | . |
| 10:112352843-A/G | <i>SMC3</i>    | 10:112352843 | Asian | STAD | NA             | 0.754 | . |
| 10:112360222-G/T | <i>SMC3</i>    | 10:112360222 | Asian | UCEC | NA             | 0.743 | . |
| 10:115603939-C/A | <i>DCLRE1A</i> | 10:115603939 | Asian | UCEC | NA             | 0.968 | . |
| 10:115609027-C/A | <i>DCLRE1A</i> | 10:115609027 | White | KIRC | 10:115609027_C | 0.152 | . |

/A

|                  |                |              |       |      |                |       |   |
|------------------|----------------|--------------|-------|------|----------------|-------|---|
| 10:115609027-C/A | <i>DCLRE1A</i> | 10:115609027 | AA/B  | KIRC | 10:115609027_C | 0.152 | . |
|                  |                |              |       |      | /A             |       |   |
| 10:115610254-C/A | <i>DCLRE1A</i> | 10:115610254 | Asian | COAD | NA             | 0.18  | . |
| 10:115610254-C/A | <i>DCLRE1A</i> | 10:115610254 | White | COAD | NA             | 0.18  | . |
| 10:115610342-G/T | <i>DCLRE1A</i> | 10:115610342 | Asian | UCEC | NA             | 0.801 | . |
| 10:115612923-C/T | <i>DCLRE1A</i> | 10:115612923 | Asian | UCEC | rs1441187126   | 0.641 | . |
| 10:123719087-T/G | <i>NSMCE4A</i> | 10:123719087 | White | COAD | NA             | 0.091 | . |
| 10:123719087-T/G | <i>NSMCE4A</i> | 10:123719087 | Asian | COAD | NA             | 0.091 | . |
| 10:131557541-T/C | <i>MGMT</i>    | 10:131557541 | White | STAD | NA             | 0.587 | . |
| 10:50679084-C/G  | <i>ERCC6</i>   | 10:50679084  | AA/B  | LUAD | NA             | 0.503 | . |
| 10:50679084-C/G  | <i>ERCC6</i>   | 10:50679084  | White | LUAD | NA             | 0.503 | . |
| 10:50680495-T/A  | <i>ERCC6</i>   | 10:50680495  | White | STAD | NA             | 0.731 | . |
| 10:50680495-T/A  | <i>ERCC6</i>   | 10:50680495  | Asian | STAD | NA             | 0.731 | . |
| 10:50686456-G/A  | <i>ERCC6</i>   | 10:50686456  | AA/B  | COAD | rs368188837    | 0.934 | . |
| 10:50686456-G/A  | <i>ERCC6</i>   | 10:50686456  | White | COAD | rs368188837    | 0.934 | . |
| 10:50691429-C/T  | <i>ERCC6</i>   | 10:50691429  | White | COAD | NA             | 0.905 | . |
| 10:50713973-C/T  | <i>ERCC6</i>   | 10:50713973  | White | COAD | rs749392467    | 0.569 | . |
| 10:51040912-G/T  | <i>PARG</i>    | 10:51040912  | Asian | UCEC | NA             | 0.206 | . |
| 10:51069666-T/C  | <i>PARG</i>    | 10:51069666  | AA/B  | COAD | NA             | 0.3   | . |
| 10:51069666-T/C  | <i>PARG</i>    | 10:51069666  | White | COAD | NA             | 0.3   | . |
| 10:51087793-G/T  | <i>PARG</i>    | 10:51087793  | Asian | UCEC | NA             | 0.526 | . |
| 10:59955929-C/G  | <i>IPMK</i>    | 10:59955929  | AA/B  | LUAD | NA             | 0.39  | . |
| 10:59955929-C/G  | <i>IPMK</i>    | 10:59955929  | White | LUAD | NA             | 0.39  | . |

|                 |             |             |       |      |              |       |   |
|-----------------|-------------|-------------|-------|------|--------------|-------|---|
| 10:59955943-C/T | <i>IPMK</i> | 10:59955943 | White | UCEC | rs201911489  | 0.207 | . |
| 10:59986839-T/C | <i>IPMK</i> | 10:59986839 | White | UCEC | rs778350776  | 0.523 | . |
| 10:70182635-T/G | <i>DNA2</i> | 10:70182635 | White | STAD | NA           | 0.743 | . |
| 10:70182635-T/G | <i>DNA2</i> | 10:70182635 | White | STAD | NA           | 0.9   | . |
| 10:70190369-T/C | <i>DNA2</i> | 10:70190369 | White | BRCA | NA           | 0.947 | . |
| 10:70190369-T/C | <i>DNA2</i> | 10:70190369 | AA/B  | BRCA | NA           | 0.947 | . |
| 10:70202736-C/A | <i>DNA2</i> | 10:70202736 | AA/B  | LUAD | NA           | 0.832 | . |
| 10:70202736-C/A | <i>DNA2</i> | 10:70202736 | White | LUAD | NA           | 0.832 | . |
| 10:70204814-C/T | <i>DNA2</i> | 10:70204814 | White | COAD | NA           | 0.643 | . |
| 10:70209804-G/T | <i>DNA2</i> | 10:70209804 | Asian | UCEC | NA           | 0.794 | . |
| 10:70209946-C/T | <i>DNA2</i> | 10:70209946 | White | STAD | rs1166986642 | 0.709 | . |
| 10:70209946-C/T | <i>DNA2</i> | 10:70209946 | Asian | STAD | rs1166986642 | 0.709 | . |
| 10:70227993-T/A | <i>DNA2</i> | 10:70227993 | White | COAD | NA           | 0.647 | . |
| 10:89624242-A/G | <i>PTEN</i> | 10:89624242 | White | STAD | NA           | 0.89  | . |
| 10:89624242-A/G | <i>PTEN</i> | 10:89624242 | Asian | STAD | NA           | 0.89  | . |
| 10:89624267-G/T | <i>PTEN</i> | 10:89624267 | White | UCEC | NA           | 0.912 | . |
| 10:89624271-A/C | <i>PTEN</i> | 10:89624271 | White | COAD | NA           | 0.799 | . |
| 10:89624271-A/C | <i>PTEN</i> | 10:89624271 | AA/B  | COAD | NA           | 0.799 | . |
| 10:89624297-A/T | <i>PTEN</i> | 10:89624297 | Asian | STAD | NA           | 0.994 | . |
| 10:89624297-A/T | <i>PTEN</i> | 10:89624297 | White | STAD | NA           | 0.994 | . |
| 10:89653785-T/G | <i>PTEN</i> | 10:89653785 | White | STAD | NA           | 0.98  | . |
| 10:89653808-G/A | <i>PTEN</i> | 10:89653808 | White | UCEC | NA           | 0.995 | . |
| 10:89692790-G/T | <i>PTEN</i> | 10:89692790 | White | UCEC | NA           | 0.96  | . |

|                 |             |             |       |      |    |       |                                   |
|-----------------|-------------|-------------|-------|------|----|-------|-----------------------------------|
| 10:89692890-A/C | <i>PTEN</i> | 10:89692890 | White | UCEC | NA | 0.914 | .                                 |
| 10:89692892-G/T | <i>PTEN</i> | 10:89692892 | White | UCEC | NA | 0.889 | .                                 |
| 10:89692893-C/G | <i>PTEN</i> | 10:89692893 | White | BRCA | NA | 0.878 | .                                 |
| 10:89692893-C/G | <i>PTEN</i> | 10:89692893 | AA/B  | BRCA | NA | 0.878 | .                                 |
| 10:89692902-G/A | <i>PTEN</i> | 10:89692902 | White | LUSC | NA | 0.94  | pathogenic                        |
| 10:89692902-G/A | <i>PTEN</i> | 10:89692902 | AA/B  | LUSC | NA | 0.94  | pathogenic                        |
| 10:89692904-C/G | <i>PTEN</i> | 10:89692904 | White | UCEC | NA | 0.962 | pathogenic                        |
| 10:89692904-C/G | <i>PTEN</i> | 10:89692904 | AA/B  | UCEC | NA | 0.962 | pathogenic                        |
| 10:89692905-G/A | <i>PTEN</i> | 10:89692905 | White | COAD | NA | 0.976 | likely_pathogenic, pathogenic,pat |
| 10:89692905-G/A | <i>PTEN</i> | 10:89692905 | Asian | UCEC | NA | 0.976 | likely_pathogenic, pathogenic,pat |
| 10:89692905-G/A | <i>PTEN</i> | 10:89692905 | AA/B  | STAD | NA | 0.976 | likely_pathogenic, pathogenic,pat |
| 10:89692905-G/C | <i>PTEN</i> | 10:89692905 | White | UCEC | NA | 0.984 | likely_pathogenic, pathogenic,pat |
| 10:89692905-G/T | <i>PTEN</i> | 10:89692905 | White | UCEC | NA | 0.987 | likely_pathogenic, pathogenic,pat |

|                 |             |             |       |      |             |       |                                   |
|-----------------|-------------|-------------|-------|------|-------------|-------|-----------------------------------|
| 10:89692911-G/A | PTEN        | 10:89692911 | White | UCEC | NA          | 0.991 | uncertain_significance,pathogenic |
| 10:89692920-T/A | PTEN        | 10:89692920 | White | BRCA | NA          | 0.99  | .                                 |
| 10:89692920-T/A | PTEN        | 10:89692920 | AA/B  | BRCA | NA          | 0.99  | .                                 |
| 10:89692922-T/C | PTEN        | 10:89692922 | AA/B  | UCEC | NA          | 0.991 | .                                 |
| 10:89692922-T/C | PTEN        | 10:89692922 | White | UCEC | NA          | 0.991 | .                                 |
| 10:89692923-G/T | PTEN        | 10:89692923 | Asian | UCEC | NA          | 0.966 | .                                 |
| 10:89692926-C/T | PTEN        | 10:89692926 | White | UCEC | NA          | 0.926 | .                                 |
| 10:89692971-T/C | <i>PTEN</i> | 10:89692971 | White | UCEC | NA          | 0.951 | .                                 |
| 10:89711899-C/T | <i>PTEN</i> | 10:89711899 | AA/B  | UCEC | NA          | 0.972 | pathogenic                        |
| 10:89711899-C/T | <i>PTEN</i> | 10:89711899 | AA/B  | LGG  | NA          | 0.972 | pathogenic                        |
| 10:89711899-C/T | <i>PTEN</i> | 10:89711899 | White | COAD | NA          | 0.972 | pathogenic                        |
| 10:89711899-C/T | <i>PTEN</i> | 10:89711899 | White | UCEC | NA          | 0.972 | pathogenic                        |
| 10:89711899-C/T | <i>PTEN</i> | 10:89711899 | White | LGG  | NA          | 0.972 | pathogenic                        |
| 10:89711900-G/A | <i>PTEN</i> | 10:89711900 | AA/B  | UCEC | rs121913294 | 0.949 | likely_pathogeni<br>c             |
| 10:89711900-G/A | <i>PTEN</i> | 10:89711900 | White | UCEC | rs121913294 | 0.949 | likely_pathogeni<br>c             |
| 10:89717625-T/G | <i>PTEN</i> | 10:89717625 | White | BRCA | NA          | 0.913 | .                                 |
| 10:89717625-T/G | <i>PTEN</i> | 10:89717625 | AA/B  | BRCA | NA          | 0.913 | .                                 |
| 10:89717721-T/A | <i>PTEN</i> | 10:89717721 | Asian | UCEC | NA          | 0.96  | .                                 |
| 10:89717729-G/T | <i>PTEN</i> | 10:89717729 | Asian | UCEC | NA          | 0.973 | .                                 |
| 10:89720813-A/G | <i>PTEN</i> | 10:89720813 | White | LGG  | NA          | 0.877 | .                                 |

|                  |              |              |       |      |              |       |   |
|------------------|--------------|--------------|-------|------|--------------|-------|---|
| 10:89720813-A/G  | <i>PTEN</i>  | 10:89720813  | AA/B  | LGG  | NA           | 0.877 | . |
| 10:96348061-G/A  | <i>HELLS</i> | 10:96348061  | White | UCEC | rs1333262815 | 0.302 | . |
| 10:96350486-C/T  | <i>HELLS</i> | 10:96350486  | White | UCEC | NA           | 0.665 | . |
| 10:96353359-A/C  | <i>HELLS</i> | 10:96353359  | AA/B  | BRCA | NA           | 0.733 | . |
| 10:96353359-A/C  | <i>HELLS</i> | 10:96353359  | White | BRCA | NA           | 0.733 | . |
| 10:96356854-G/A  | <i>HELLS</i> | 10:96356854  | White | UCEC | NA           | 0.659 | . |
| 10:96361331-C/G  | <i>HELLS</i> | 10:96361331  | White | UCEC | NA           | 0.626 | . |
| 10:98084055-G/T  | <i>DNTT</i>  | 10:98084055  | White | UCEC | NA           | 0.265 | . |
| 10:98088496-G/T  | <i>DNTT</i>  | 10:98088496  | White | STAD | NA           | 0.568 | . |
| 10:98088496-G/T  | <i>DNTT</i>  | 10:98088496  | Asian | STAD | NA           | 0.568 | . |
| 10:98092286-G/A  | <i>DNTT</i>  | 10:98092286  | White | UCEC | rs142389547  | 0.824 | . |
| 10:98092321-G/A  | <i>DNTT</i>  | 10:98092321  | White | STAD | NA           | 0.371 | . |
| 10:98092321-G/A  | <i>DNTT</i>  | 10:98092321  | Asian | STAD | NA           | 0.371 | . |
| 10:98092349-C/T  | <i>DNTT</i>  | 10:98092349  | AA/B  | LUAD | NA           | 0.616 | . |
| 10:98092349-C/T  | <i>DNTT</i>  | 10:98092349  | White | LUAD | NA           | 0.616 | . |
| 10:99225597-G/A  | <i>MMS19</i> | 10:99225597  | White | STAD | NA           | 0.557 | . |
| 10:99225597-G/A  | <i>MMS19</i> | 10:99225597  | White | STAD | NA           | 0.354 | . |
| 10:99228834-C/T  | <i>MMS19</i> | 10:99228834  | White | CESC | NA           | 0.297 | . |
| 10:99228834-C/T  | <i>MMS19</i> | 10:99228834  | AA/B  | CESC | NA           | 0.297 | . |
| 11:107920618-G/A | <i>CUL5</i>  | 11:107920618 | White | UCEC | rs775692877  | 0.266 | . |
| 11:107920713-T/C | <i>CUL5</i>  | 11:107920713 | White | STAD | NA           | 0.583 | . |
| 11:107920713-T/C | <i>CUL5</i>  | 11:107920713 | Asian | STAD | NA           | 0.583 | . |
| 11:107925500-T/C | <i>CUL5</i>  | 11:107925500 | White | COAD | NA           | 0.672 | . |

|                  |             |              |       |      |             |       |                        |
|------------------|-------------|--------------|-------|------|-------------|-------|------------------------|
| 11:107960288-C/T | <i>CUL5</i> | 11:107960288 | White | UCEC | NA          | 0.873 | .                      |
| 11:107965125-G/A | <i>CUL5</i> | 11:107965125 | White | LUAD | NA          | 0.861 | .                      |
| 11:107965125-G/A | <i>CUL5</i> | 11:107965125 | AA/B  | LUAD | NA          | 0.861 | .                      |
| 11:107968424-C/T | <i>CUL5</i> | 11:107968424 | AA/B  | CESC | NA          | 0.607 | .                      |
| 11:107968424-C/T | <i>CUL5</i> | 11:107968424 | White | CESC | NA          | 0.607 | .                      |
| 11:107974999-A/C | <i>CUL5</i> | 11:107974999 | White | COAD | NA          | 0.287 | .                      |
| 11:108098563-C/T | <i>ATM</i>  | 11:108098563 | Asian | UCEC | rs3218684   | 0.095 | uncertain_significance |
| 11:108099998-G/T | <i>ATM</i>  | 11:108099998 | White | COAD | NA          | 0.157 | .                      |
| 11:108117798-C/T | <i>ATM</i>  | 11:108117798 | Asian | COAD | rs138398778 | 0.36  | uncertain_significance |
| 11:108119696-C/G | <i>ATM</i>  | 11:108119696 | AA/B  | LGG  | NA          | 0.16  | .                      |
| 11:108119696-C/G | <i>ATM</i>  | 11:108119696 | White | LGG  | NA          | 0.16  | .                      |
| 11:108124699-T/C | <i>ATM</i>  | 11:108124699 | Asian | UCEC | NA          | 0.626 | .                      |
| 11:108139224-C/T | <i>ATM</i>  | 11:108139224 | White | KIRC | NA          | 0.305 | .                      |
| 11:108139224-C/T | <i>ATM</i>  | 11:108139224 | AA/B  | KIRC | NA          | 0.305 | .                      |
| 11:108141997-C/T | <i>ATM</i>  | 11:108141997 | White | STAD | rs587780619 | 0.739 | uncertain_significance |
| 11:108141997-C/T | <i>ATM</i>  | 11:108141997 | Asian | STAD | rs587780619 | 0.739 | uncertain_significance |
| 11:108153601-C/A | <i>ATM</i>  | 11:108153601 | Asian | UCEC | NA          | 0.562 | .                      |
| 11:108153601-C/A | <i>ATM</i>  | 11:108153601 | White | COAD | NA          | 0.562 | .                      |
| 11:108160347-C/A | <i>ATM</i>  | 11:108160347 | Asian | UCEC | NA          | 0.062 | .                      |

|                  |            |              |       |      |              |       |                        |
|------------------|------------|--------------|-------|------|--------------|-------|------------------------|
| 11:108160347-C/A | <i>ATM</i> | 11:108160347 | Asian | UCEC | NA           | 0.3   | .                      |
| 11:108163396-A/G | <i>ATM</i> | 11:108163396 | Asian | UCEC | NA           | 0.659 | .                      |
| 11:108164059-A/G | <i>ATM</i> | 11:108164059 | White | UCEC | rs779718362  | 0.195 | .                      |
| 11:108170482-T/G | <i>ATM</i> | 11:108170482 | Asian | UCEC | NA           | 0.286 | .                      |
| 11:108186752-A/G | <i>ATM</i> | 11:108186752 | Asian | UCEC | NA           | 0.477 | .                      |
| 11:108192065-G/C | <i>ATM</i> | 11:108192065 | AA/B  | BLCA | NA           | 0.666 | .                      |
| 11:108200961-G/A | <i>ATM</i> | 11:108200961 | White | BRCA | rs587782310  | 0.466 | uncertain_significance |
| 11:108200961-G/A | <i>ATM</i> | 11:108200961 | AA/B  | BRCA | rs587782310  | 0.466 | uncertain_significance |
| 11:108205734-A/G | <i>ATM</i> | 11:108205734 | Asian | UCEC | rs1292192410 | 0.718 | .                      |
| 11:108205742-T/G | <i>ATM</i> | 11:108205742 | White | STAD | NA           | 0.937 | .                      |
| 11:108205742-T/G | <i>ATM</i> | 11:108205742 | Asian | STAD | NA           | 0.937 | .                      |
| 11:108206584-C/A | <i>ATM</i> | 11:108206584 | Asian | UCEC | NA           | 0.692 | uncertain_significance |
| 11:108214018-C/A | <i>ATM</i> | 11:108214018 | White | UCEC | NA           | 0.598 | .                      |
| 11:108216545-C/T | <i>ATM</i> | 11:108216545 | White | LUAD | rs587779872  | 0.83  | likely_pathogenic      |
| 11:108216545-C/T | <i>ATM</i> | 11:108216545 | AA/B  | LUAD | rs587779872  | 0.83  | likely_pathogenic      |
| 11:108218017-C/A | <i>ATM</i> | 11:108218017 | Asian | UCEC | NA           | 0.484 | uncertain_significance |
| 11:108225584-C/A | <i>ATM</i> | 11:108225584 | White | UCEC | NA           | 0.739 | .                      |

|                  |               |              |       |      |                     |       |   |
|------------------|---------------|--------------|-------|------|---------------------|-------|---|
| 11:125514032-G/T | <i>CHEK1</i>  | 11:125514032 | AA/B  | LUAD | NA                  | 0.282 | . |
| 11:125514032-G/T | <i>CHEK1</i>  | 11:125514032 | White | LUAD | NA                  | 0.282 | . |
| 11:125514441-G/A | <i>CHEK1</i>  | 11:125514441 | White | STAD | NA                  | 0.725 | . |
| 11:125514441-G/A | <i>CHEK1</i>  | 11:125514441 | Asian | STAD | NA                  | 0.725 | . |
| 11:125525174-G/T | <i>CHEK1</i>  | 11:125525174 | White | COAD | NA                  | 0.688 | . |
| 11:18382202-C/T  | <i>GTF2H1</i> | 11:18382202  | White | UCEC | rs999720593         | 0.268 | . |
| 11:22646875-G/T  | <i>FANCF</i>  | 11:22646875  | White | UCEC | NA                  | 0.06  | . |
| 11:22647053-C/A  | <i>FANCF</i>  | 11:22647053  | White | UCEC | NA                  | 0.065 | . |
| 11:43904237-G/A  | <i>ALKBH3</i> | 11:43904237  | Asian | ESCA | NA                  | 0.385 | . |
| 11:43904237-G/A  | <i>ALKBH3</i> | 11:43904237  | White | ESCA | NA                  | 0.385 | . |
| 11:43908203-G/T  | <i>ALKBH3</i> | 11:43908203  | White | KIRP | 11:43908203_G/<br>T | 0.245 | . |
| 11:43908203-G/T  | <i>ALKBH3</i> | 11:43908203  | AA/B  | KIRP | 11:43908203_G/<br>T | 0.245 | . |
| 11:43911298-T/C  | <i>ALKBH3</i> | 11:43911298  | White | UCEC | rs542847003         | 0.192 | . |
| 11:43940636-G/T  | <i>ALKBH3</i> | 11:43940636  | AA/B  | LUAD | NA                  | 0.158 | . |
| 11:43940636-G/T  | <i>ALKBH3</i> | 11:43940636  | AA/B  | LUAD | NA                  | 0.081 | . |
| 11:43940636-G/T  | <i>ALKBH3</i> | 11:43940636  | White | LUAD | NA                  | 0.158 | . |
| 11:43940636-G/T  | <i>ALKBH3</i> | 11:43940636  | White | LUAD | NA                  | 0.081 | . |
| 11:43940667-C/T  | <i>ALKBH3</i> | 11:43940667  | White | UCEC | rs745683816         | 0.125 | . |
| 11:46889641-G/T  | <i>LRP4</i>   | 11:46889641  | White | LUAD | NA                  | 0.442 | . |
| 11:46889641-G/T  | <i>LRP4</i>   | 11:46889641  | AA/B  | LUAD | NA                  | 0.442 | . |
| 11:46897369-C/T  | <i>LRP4</i>   | 11:46897369  | White | OV   | rs760528582         | 0.79  | . |

|                 |              |             |       |      |              |       |   |
|-----------------|--------------|-------------|-------|------|--------------|-------|---|
| 11:46897369-C/T | <i>LRP4</i>  | 11:46897369 | AA/B  | OV   | rs760528582  | 0.79  | . |
| 11:46905450-G/A | <i>LRP4</i>  | 11:46905450 | White | UCEC | rs1216367812 | 0.91  | . |
| 11:46905469-C/A | <i>LRP4</i>  | 11:46905469 | White | LUAD | NA           | 0.875 | . |
| 11:46905469-C/A | <i>LRP4</i>  | 11:46905469 | AA/B  | LUAD | NA           | 0.875 | . |
| 11:46911003-G/A | <i>LRP4</i>  | 11:46911003 | White | STAD | NA           | 0.898 | . |
| 11:46911003-G/A | <i>LRP4</i>  | 11:46911003 | Asian | STAD | NA           | 0.898 | . |
| 11:46911620-G/A | <i>LRP4</i>  | 11:46911620 | White | UCEC | NA           | 0.912 | . |
| 11:46911654-C/T | <i>LRP4</i>  | 11:46911654 | White | COAD | NA           | 0.879 | . |
| 11:46911848-C/T | <i>LRP4</i>  | 11:46911848 | White | UCEC | NA           | 0.89  | . |
| 11:46911897-C/T | <i>LRP4</i>  | 11:46911897 | White | UCEC | NA           | 0.906 | . |
| 11:46916184-C/T | <i>LRP4</i>  | 11:46916184 | White | COAD | NA           | 0.937 | . |
| 11:46916184-C/T | <i>LRP4</i>  | 11:46916184 | Asian | COAD | NA           | 0.937 | . |
| 11:46916274-T/C | <i>LRP4</i>  | 11:46916274 | White | LUAD | NA           | 0.551 | . |
| 11:46916274-T/C | <i>LRP4</i>  | 11:46916274 | AA/B  | LUAD | NA           | 0.551 | . |
| 11:46916347-C/T | <i>LRP4</i>  | 11:46916347 | White | UCEC | rs1023257694 | 0.658 | . |
| 11:47254399-T/G | <i>DDB2</i>  | 11:47254399 | Asian | UCEC | NA           | 0.61  | . |
| 11:47256959-T/C | <i>DDB2</i>  | 11:47256959 | White | UCEC | NA           | 0.501 | . |
| 11:57095242-C/A | <i>SSRP1</i> | 11:57095242 | White | UCEC | NA           | 0.888 | . |
| 11:57099148-A/G | <i>SSRP1</i> | 11:57099148 | White | STAD | NA           | 0.749 | . |
| 11:57099148-A/G | <i>SSRP1</i> | 11:57099148 | Asian | STAD | NA           | 0.749 | . |
| 11:57099296-G/A | <i>SSRP1</i> | 11:57099296 | White | STAD | NA           | 0.404 | . |
| 11:57099948-G/A | <i>SSRP1</i> | 11:57099948 | White | COAD | NA           | 0.717 | . |
| 11:57099948-G/A | <i>SSRP1</i> | 11:57099948 | AA/B  | COAD | NA           | 0.717 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 11:57100226-T/C | <i>SSRP1</i>  | 11:57100226 | Asian | STAD | NA           | 0.757 | . |
| 11:57100226-T/C | <i>SSRP1</i>  | 11:57100226 | White | STAD | NA           | 0.757 | . |
| 11:57100444-C/T | <i>SSRP1</i>  | 11:57100444 | White | UCEC | NA           | 0.318 | . |
| 11:57100468-G/A | <i>SSRP1</i>  | 11:57100468 | AA/B  | LUSC | NA           | 0.645 | . |
| 11:57100468-G/A | <i>SSRP1</i>  | 11:57100468 | White | LUSC | NA           | 0.645 | . |
| 11:57102013-C/G | <i>SSRP1</i>  | 11:57102013 | White | BRCA | NA           | 0.833 | . |
| 11:57102013-C/G | <i>SSRP1</i>  | 11:57102013 | AA/B  | BRCA | NA           | 0.833 | . |
| 11:60665619-C/T | <i>PRPF19</i> | 11:60665619 | White | STAD | NA           | 0.802 | . |
| 11:60665647-C/A | <i>PRPF19</i> | 11:60665647 | AA/B  | LUAD | NA           | 0.891 | . |
| 11:60665647-C/A | <i>PRPF19</i> | 11:60665647 | White | LUAD | NA           | 0.891 | . |
| 11:60666022-C/A | <i>PRPF19</i> | 11:60666022 | Asian | UCEC | NA           | 0.855 | . |
| 11:60666653-C/T | <i>PRPF19</i> | 11:60666653 | White | STAD | rs1396955598 | 0.576 | . |
| 11:60666653-C/T | <i>PRPF19</i> | 11:60666653 | Asian | STAD | rs1396955598 | 0.576 | . |
| 11:61071504-G/A | <i>DDB1</i>   | 11:61071504 | White | STAD | NA           | 0.638 | . |
| 11:61071504-G/A | <i>DDB1</i>   | 11:61071504 | Asian | STAD | NA           | 0.638 | . |
| 11:61091539-C/T | <i>DDB1</i>   | 11:61091539 | White | STAD | NA           | 0.946 | . |
| 11:61091539-C/T | <i>DDB1</i>   | 11:61091539 | Asian | STAD | NA           | 0.946 | . |
| 11:61094352-C/T | <i>DDB1</i>   | 11:61094352 | White | UCEC | NA           | 0.37  | . |
| 11:61096912-G/A | <i>DDB1</i>   | 11:61096912 | AA/B  | COAD | NA           | 0.507 | . |
| 11:61096912-G/A | <i>DDB1</i>   | 11:61096912 | White | COAD | NA           | 0.507 | . |
| 11:61563308-G/A | <i>FEN1</i>   | 11:61563308 | White | STAD | rs778852873  | 0.918 | . |
| 11:61563308-G/A | <i>FEN1</i>   | 11:61563308 | Asian | STAD | rs778852873  | 0.918 | . |
| 11:65482045-A/T | <i>KAT5</i>   | 11:65482045 | White | UCEC | NA           | 0.522 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 11:65631344-T/G | <i>MUS81</i>  | 11:65631344 | White | STAD | rs138527502  | 0.471 | . |
| 11:65631344-T/G | <i>MUS81</i>  | 11:65631344 | White | STAD | rs138527502  | 0.376 | . |
| 11:65631344-T/G | <i>MUS81</i>  | 11:65631344 | Asian | STAD | rs138527502  | 0.471 | . |
| 11:65631344-T/G | <i>MUS81</i>  | 11:65631344 | Asian | STAD | rs138527502  | 0.376 | . |
| 11:67163792-C/A | <i>RAD9A</i>  | 11:67163792 | White | UCEC | NA           | 0.214 | . |
| 11:74340322-G/C | <i>POLD3</i>  | 11:74340322 | AA/B  | BRCA | NA           | 0.275 | . |
| 11:74340322-G/C | <i>POLD3</i>  | 11:74340322 | AA/B  | BRCA | NA           | 0.186 | . |
| 11:74340322-G/C | <i>POLD3</i>  | 11:74340322 | White | BRCA | NA           | 0.275 | . |
| 11:74340322-G/C | <i>POLD3</i>  | 11:74340322 | White | BRCA | NA           | 0.186 | . |
| 11:74340348-C/G | <i>POLD3</i>  | 11:74340348 | White | CESC | NA           | 0.28  | . |
| 11:74340348-C/G | <i>POLD3</i>  | 11:74340348 | White | CESC | NA           | 0.144 | . |
| 11:74340348-C/G | <i>POLD3</i>  | 11:74340348 | AA/B  | CESC | NA           | 0.28  | . |
| 11:74340348-C/G | <i>POLD3</i>  | 11:74340348 | AA/B  | CESC | NA           | 0.144 | . |
| 11:74521240-A/C | <i>RNF169</i> | 11:74521240 | White | STAD | NA           | 0.097 | . |
| 11:74546822-C/A | <i>RNF169</i> | 11:74546822 | White | THYM | NA           | 0.325 | . |
| 11:74546822-C/A | <i>RNF169</i> | 11:74546822 | Asian | THYM | NA           | 0.325 | . |
| 11:74546844-G/A | <i>RNF169</i> | 11:74546844 | Asian | ESCA | NA           | 0.826 | . |
| 11:74546844-G/A | <i>RNF169</i> | 11:74546844 | White | ESCA | NA           | 0.826 | . |
| 11:74546883-G/A | <i>RNF169</i> | 11:74546883 | White | LUAD | rs1309338384 | 0.339 | . |
| 11:74546883-G/A | <i>RNF169</i> | 11:74546883 | AA/B  | LUAD | rs1309338384 | 0.339 | . |
| 11:9606861-G/A  | <i>WEE1</i>   | 11:9606861  | Asian | UCEC | NA           | 0.217 | . |
| 11:9607061-A/C  | <i>WEE1</i>   | 11:9607061  | White | BRCA | NA           | 0.92  | . |
| 11:9607061-A/C  | <i>WEE1</i>   | 11:9607061  | AA/B  | BRCA | NA           | 0.92  | . |

|                  |               |              |       |      |             |       |   |
|------------------|---------------|--------------|-------|------|-------------|-------|---|
| 11:9608313-A/G   | <i>WEE1</i>   | 11:9608313   | Asian | STAD | NA          | 0.566 | . |
| 11:9608313-A/G   | <i>WEE1</i>   | 11:9608313   | White | STAD | NA          | 0.566 | . |
| 11:9610133-G/T   | <i>WEE1</i>   | 11:9610133   | AA/B  | SARC | NA          | 0.654 | . |
| 11:9610133-G/T   | <i>WEE1</i>   | 11:9610133   | White | SARC | NA          | 0.654 | . |
| 12:1023144-G/A   | <i>RAD52</i>  | 12:1023144   | White | UCEC | NA          | 0.146 | . |
| 12:1023149-C/A   | <i>RAD52</i>  | 12:1023149   | White | UCEC | NA          | 0.102 | . |
| 12:102542015-G/T | <i>PARPBP</i> | 12:102542015 | White | KIRP | NA          | 0.406 | . |
| 12:102542015-G/T | <i>PARPBP</i> | 12:102542015 | AA/B  | KIRP | NA          | 0.406 | . |
| 12:102558273-A/C | <i>PARPBP</i> | 12:102558273 | White | COAD | NA          | 0.354 | . |
| 12:102559514-C/T | <i>PARPBP</i> | 12:102559514 | Asian | STAD | rs775852790 | 0.188 | . |
| 12:102559514-C/T | <i>PARPBP</i> | 12:102559514 | White | STAD | rs775852790 | 0.188 | . |
| 12:102559591-A/C | <i>PARPBP</i> | 12:102559591 | White | COAD | NA          | 0.4   | . |
| 12:102559591-A/C | <i>PARPBP</i> | 12:102559591 | Asian | COAD | NA          | 0.4   | . |
| 12:102569284-C/T | <i>PARPBP</i> | 12:102569284 | Asian | BRCA | NA          | 0.392 | . |
| 12:102569284-C/T | <i>PARPBP</i> | 12:102569284 | White | BRCA | NA          | 0.392 | . |
| 12:102569382-A/C | <i>PARPBP</i> | 12:102569382 | White | COAD | NA          | 0.104 | . |
| 12:104373818-G/A | <i>TDG</i>    | 12:104373818 | Asian | STAD | rs149084574 | 0.463 | . |
| 12:104373818-G/A | <i>TDG</i>    | 12:104373818 | White | STAD | rs149084574 | 0.463 | . |
| 12:104376688-C/T | <i>TDG</i>    | 12:104376688 | Asian | COAD | rs745524841 | 0.3   | . |
| 12:104376688-C/T | <i>TDG</i>    | 12:104376688 | Asian | COAD | rs745524841 | 0.482 | . |
| 12:104376688-C/T | <i>TDG</i>    | 12:104376688 | White | COAD | rs745524841 | 0.3   | . |
| 12:104376688-C/T | <i>TDG</i>    | 12:104376688 | White | COAD | rs745524841 | 0.482 | . |
| 12:104697876-G/A | <i>EID3</i>   | 12:104697876 | AA/B  | LIHC | NA          | 0.403 | . |

|                  |               |              |       |      |             |       |   |
|------------------|---------------|--------------|-------|------|-------------|-------|---|
| 12:104697950-G/T | <i>EID3</i>   | 12:104697950 | White | LUAD | NA          | 0.565 | . |
| 12:104697950-G/T | <i>EID3</i>   | 12:104697950 | AA/B  | LUAD | NA          | 0.565 | . |
| 12:104697977-G/A | <i>EID3</i>   | 12:104697977 | White | STAD | NA          | 0.618 | . |
| 12:104698101-A/T | <i>EID3</i>   | 12:104698101 | Asian | STAD | NA          | 0.103 | . |
| 12:104698101-A/T | <i>EID3</i>   | 12:104698101 | White | STAD | NA          | 0.103 | . |
| 12:104698212-C/T | <i>EID3</i>   | 12:104698212 | White | STAD | NA          | 0.171 | . |
| 12:104698212-C/T | <i>EID3</i>   | 12:104698212 | Asian | STAD | NA          | 0.171 | . |
| 12:104698483-G/T | <i>EID3</i>   | 12:104698483 | White | UCEC | NA          | 0.642 | . |
| 12:104698527-G/T | <i>EID3</i>   | 12:104698527 | Asian | UCEC | NA          | 0.287 | . |
| 12:109526219-C/G | <i>ALKBH2</i> | 12:109526219 | White | BRCA | NA          | 0.737 | . |
| 12:109526219-C/G | <i>ALKBH2</i> | 12:109526219 | White | BRCA | NA          | 0.143 | . |
| 12:109526219-C/G | <i>ALKBH2</i> | 12:109526219 | Asian | BRCA | NA          | 0.737 | . |
| 12:109526219-C/G | <i>ALKBH2</i> | 12:109526219 | Asian | BRCA | NA          | 0.143 | . |
| 12:109539758-C/T | <i>UNG</i>    | 12:109539758 | AA/B  | CESC | NA          | 0.548 | . |
| 12:109539758-C/T | <i>UNG</i>    | 12:109539758 | White | CESC | NA          | 0.548 | . |
| 12:109539760-C/A | <i>UNG</i>    | 12:109539760 | White | STAD | rs376918741 | 0.477 | . |
| 12:109539760-C/A | <i>UNG</i>    | 12:109539760 | Asian | STAD | rs376918741 | 0.477 | . |
| 12:109541373-T/G | <i>UNG</i>    | 12:109541373 | AA/B  | KIRC | NA          | 0.763 | . |
| 12:109541373-T/G | <i>UNG</i>    | 12:109541373 | AA/B  | KIRC | NA          | 0.714 | . |
| 12:109541373-T/G | <i>UNG</i>    | 12:109541373 | White | KIRC | NA          | 0.763 | . |
| 12:109541373-T/G | <i>UNG</i>    | 12:109541373 | White | KIRC | NA          | 0.714 | . |
| 12:110940182-G/A | <i>RAD9B</i>  | 12:110940182 | White | UCEC | NA          | 0.049 | . |
| 12:110943422-C/A | <i>RAD9B</i>  | 12:110943422 | White | UCEC | NA          | 0.187 | . |

|                  |               |              |       |      |              |       |             |
|------------------|---------------|--------------|-------|------|--------------|-------|-------------|
| 12:110944402-A/G | <i>RAD9B</i>  | 12:110944402 | White | LUAD | NA           | 0.438 | .           |
| 12:110944402-A/G | <i>RAD9B</i>  | 12:110944402 | AA/B  | LUAD | NA           | 0.438 | .           |
| 12:110950593-G/T | <i>RAD9B</i>  | 12:110950593 | White | UCEC | rs753006923  | 0.266 | .           |
| 12:110956716-T/G | <i>RAD9B</i>  | 12:110956716 | AA/B  | KIRC | NA           | 0.327 | .           |
| 12:110956716-T/G | <i>RAD9B</i>  | 12:110956716 | White | KIRC | NA           | 0.327 | .           |
| 12:110960215-A/C | <i>RAD9B</i>  | 12:110960215 | White | COAD | NA           | 0.136 | .           |
| 12:118468998-C/T | <i>RFC5</i>   | 12:118468998 | White | BRCA | NA           | 0.265 | .           |
| 12:118468998-C/T | <i>RFC5</i>   | 12:118468998 | Asian | BRCA | NA           | 0.265 | .           |
| 12:124135594-G/T | <i>GTF2H3</i> | 12:124135594 | White | SARC | rs1191432224 | 0.718 | .           |
| 12:124135594-G/T | <i>GTF2H3</i> | 12:124135594 | AA/B  | SARC | rs1191432224 | 0.718 | .           |
| 12:133208906-A/G | <i>POLE</i>   | 12:133208906 | Asian | UCEC | NA           | 0.691 | .           |
| 12:133209378-T/C | <i>POLE</i>   | 12:133209378 | White | STAD | NA           | 0.615 | .           |
| 12:133215787-G/A | <i>POLE</i>   | 12:133215787 | White | COAD | rs762000608  | 0.34  | .           |
| 12:133215787-G/A | <i>POLE</i>   | 12:133215787 | White | UCEC | rs762000608  | 0.34  | .           |
| 12:133218372-C/T | <i>POLE</i>   | 12:133218372 | White | STAD | rs753105796  | 0.245 | .           |
| 12:133218372-C/T | <i>POLE</i>   | 12:133218372 | Asian | STAD | rs753105796  | 0.245 | .           |
| 12:133219468-G/A | <i>POLE</i>   | 12:133219468 | White | COAD | rs768741587  | 0.373 | .           |
| 12:133240978-G/A | <i>POLE</i>   | 12:133240978 | Asian | STAD | NA           | 0.528 | .           |
| 12:133240978-G/A | <i>POLE</i>   | 12:133240978 | White | STAD | NA           | 0.528 | .           |
| 12:133249847-G/A | <i>POLE</i>   | 12:133249847 | White | UCEC | NA           | 0.418 | .           |
| 12:133250189-A/T | <i>POLE</i>   | 12:133250189 | Asian | UCEC | NA           | 0.621 | .           |
| 12:133250250-G/T | <i>POLE</i>   | 12:133250250 | Asian | UCEC | NA           | 0.593 | risk_factor |
| 12:133250289-C/A | <i>POLE</i>   | 12:133250289 | White | COAD | NA           | 0.457 | .           |

|                  |                 |              |       |      |    |       |   |
|------------------|-----------------|--------------|-------|------|----|-------|---|
| 12:133250289-C/A | <i>POLE</i>     | 12:133250289 | White | STAD | NA | 0.457 | . |
| 12:133250289-C/A | <i>POLE</i>     | 12:133250289 | Asian | UCEC | NA | 0.457 | . |
| 12:133253151-G/A | <i>POLE</i>     | 12:133253151 | White | UCEC | NA | 0.799 | . |
| 12:133253184-G/A | <i>POLE</i>     | 12:133253184 | White | STAD | NA | 0.812 | . |
| 12:133253184-G/A | <i>POLE</i>     | 12:133253184 | Asian | STAD | NA | 0.812 | . |
| 12:133253184-G/C | <i>POLE</i>     | 12:133253184 | Asian | UCEC | NA | 0.837 | . |
| 12:133253184-G/C | <i>POLE</i>     | 12:133253184 | Asian | COAD | NA | 0.837 | . |
| 12:133253184-G/C | <i>POLE</i>     | 12:133253184 | White | COAD | NA | 0.837 | . |
| 12:21644542-A/G  | <i>RECQL</i>    | 12:21644542  | White | STAD | NA | 0.455 | . |
| 12:42853756-G/T  | <i>PRICKLE1</i> | 12:42853756  | White | STAD | NA | 0.743 | . |
| 12:42853756-G/T  | <i>PRICKLE1</i> | 12:42853756  | Asian | STAD | NA | 0.743 | . |
| 12:42854131-C/T  | <i>PRICKLE1</i> | 12:42854131  | White | UCEC | NA | 0.638 | . |
| 12:42854422-G/T  | <i>PRICKLE1</i> | 12:42854422  | White | COAD | NA | 0.466 | . |
| 12:42858731-C/T  | <i>PRICKLE1</i> | 12:42858731  | Asian | STAD | NA | 0.143 | . |
| 12:42858731-C/T  | <i>PRICKLE1</i> | 12:42858731  | White | STAD | NA | 0.143 | . |
| 12:42858865-G/A  | <i>PRICKLE1</i> | 12:42858865  | White | STAD | NA | 0.439 | . |
| 12:42858908-C/T  | <i>PRICKLE1</i> | 12:42858908  | White | SARC | NA | 0.26  | . |
| 12:42858908-C/T  | <i>PRICKLE1</i> | 12:42858908  | AA/B  | SARC | NA | 0.26  | . |
| 12:42862485-A/C  | <i>PRICKLE1</i> | 12:42862485  | White | KIRC | NA | 0.611 | . |
| 12:42862485-A/C  | <i>PRICKLE1</i> | 12:42862485  | AA/B  | KIRC | NA | 0.611 | . |
| 12:42864101-C/G  | <i>PRICKLE1</i> | 12:42864101  | AA/B  | BRCA | NA | 0.804 | . |
| 12:42864101-C/G  | <i>PRICKLE1</i> | 12:42864101  | White | BRCA | NA | 0.804 | . |
| 12:54577441-C/A  | <i>SMUG1</i>    | 12:54577441  | AA/B  | KIRP | NA | 0.699 | . |

|                 |                 |             |       |      |              |       |   |
|-----------------|-----------------|-------------|-------|------|--------------|-------|---|
| 12:54577441-C/A | <i>SMUG1</i>    | 12:54577441 | White | KIRP | NA           | 0.699 | . |
| 12:54577576-G/T | <i>SMUG1</i>    | 12:54577576 | White | COAD | NA           | 0.281 | . |
| 12:54577576-G/T | <i>SMUG1</i>    | 12:54577576 | AA/B  | COAD | NA           | 0.281 | . |
| 12:56619478-G/C | <i>NABP2</i>    | 12:56619478 | White | LUAD | NA           | 0.85  | . |
| 12:56619478-G/C | <i>NABP2</i>    | 12:56619478 | AA/B  | LUAD | NA           | 0.85  | . |
| 12:56815232-C/T | <i>TIMELESS</i> | 12:56815232 | White | UCEC | rs768425224  | 0.149 | . |
| 12:56815708-C/T | <i>TIMELESS</i> | 12:56815708 | White | COAD | NA           | 0.183 | . |
| 12:56815713-C/A | <i>TIMELESS</i> | 12:56815713 | White | LUAD | NA           | 0.449 | . |
| 12:56815713-C/A | <i>TIMELESS</i> | 12:56815713 | AA/B  | LUAD | NA           | 0.449 | . |
| 12:56815747-G/A | <i>TIMELESS</i> | 12:56815747 | Asian | UCEC | rs758367557  | 0.539 | . |
| 12:56818547-G/A | <i>TIMELESS</i> | 12:56818547 | Asian | UCEC | rs780416093  | 0.391 | . |
| 12:56822112-G/A | <i>TIMELESS</i> | 12:56822112 | Asian | STAD | rs550048328  | 0.156 | . |
| 12:56822112-G/A | <i>TIMELESS</i> | 12:56822112 | White | STAD | rs550048328  | 0.156 | . |
| 12:56822755-G/A | <i>TIMELESS</i> | 12:56822755 | Asian | STAD | rs765264874  | 0.345 | . |
| 12:56822755-G/A | <i>TIMELESS</i> | 12:56822755 | White | STAD | rs765264874  | 0.345 | . |
| 12:56824055-T/C | <i>TIMELESS</i> | 12:56824055 | White | LUSC | NA           | 0.46  | . |
| 12:56824055-T/C | <i>TIMELESS</i> | 12:56824055 | AA/B  | LUSC | NA           | 0.46  | . |
| 12:56827333-C/G | <i>TIMELESS</i> | 12:56827333 | AA/B  | OV   | NA           | 0.304 | . |
| 12:56827333-C/G | <i>TIMELESS</i> | 12:56827333 | White | OV   | NA           | 0.304 | . |
| 12:56827937-C/T | <i>TIMELESS</i> | 12:56827937 | Asian | ESCA | rs1467514517 | 0.269 | . |
| 12:56827937-C/T | <i>TIMELESS</i> | 12:56827937 | White | ESCA | rs1467514517 | 0.269 | . |
| 12:76444373-G/A | <i>NAP1L1</i>   | 12:76444373 | Asian | THCA | NA           | 0.38  | . |
| 12:76444373-G/A | <i>NAP1L1</i>   | 12:76444373 | White | THCA | NA           | 0.38  | . |

|                  |               |              |       |      |             |       |            |
|------------------|---------------|--------------|-------|------|-------------|-------|------------|
| 12:76447003-A/C  | <i>NAP1L1</i> | 12:76447003  | White | COAD | NA          | 0.697 | .          |
| 12:76447595-G/A  | <i>NAP1L1</i> | 12:76447595  | Asian | UCEC | NA          | 0.185 | .          |
| 12:8800725-A/T   | <i>MFAP5</i>  | 12:8800725   | AA/B  | LIHC | NA          | 0.655 | .          |
| 12:8800752-G/A   | <i>MFAP5</i>  | 12:8800752   | White | UCEC | rs779463853 | 0.253 | .          |
| 12:8803134-G/A   | <i>MFAP5</i>  | 12:8803134   | White | COAD | rs753225796 | 0.568 | .          |
| 12:8803134-G/A   | <i>MFAP5</i>  | 12:8803134   | White | COAD | rs753225796 | 0.173 | .          |
| 12:8808382-T/G   | <i>MFAP5</i>  | 12:8808382   | White | COAD | NA          | 0.113 | .          |
| 12:8808397-A/C   | <i>MFAP5</i>  | 12:8808397   | Asian | UCEC | NA          | 0.218 | .          |
| 12:8808397-A/C   | <i>MFAP5</i>  | 12:8808397   | Asian | UCEC | NA          | 0.226 | .          |
| 12:8813485-G/T   | <i>MFAP5</i>  | 12:8813485   | AA/B  | LUAD | NA          | 0.04  | .          |
| 12:8813485-G/T   | <i>MFAP5</i>  | 12:8813485   | AA/B  | LUAD | NA          | 0.011 | .          |
| 12:8813485-G/T   | <i>MFAP5</i>  | 12:8813485   | White | LUAD | NA          | 0.04  | .          |
| 12:8813485-G/T   | <i>MFAP5</i>  | 12:8813485   | White | LUAD | NA          | 0.011 | .          |
| 13:103498683-G/A | <i>ERCC5</i>  | 13:103498683 | White | COAD | NA          | 0.242 | .          |
| 13:103525633-G/T | <i>ERCC5</i>  | 13:103525633 | AA/B  | OV   | NA          | 0.939 | pathogenic |
| 13:103525633-G/T | <i>ERCC5</i>  | 13:103525633 | White | OV   | NA          | 0.939 | pathogenic |
| 13:103527667-G/A | <i>ERCC5</i>  | 13:103527667 | White | UCEC | rs377390651 | 0.5   | .          |
| 13:108861290-T/C | <i>LIG4</i>   | 13:108861290 | Asian | UCEC | NA          | 0.321 | .          |
| 13:108861812-A/C | <i>LIG4</i>   | 13:108861812 | Asian | UCEC | NA          | 0.625 | .          |
| 13:108862104-G/A | <i>LIG4</i>   | 13:108862104 | White | UCEC | rs375284799 | 0.666 | .          |
| 13:113873275-G/C | <i>CUL4A</i>  | 13:113873275 | White | BRCA | NA          | 0.883 | .          |
| 13:113873275-G/C | <i>CUL4A</i>  | 13:113873275 | AA/B  | BRCA | NA          | 0.883 | .          |
| 13:113899329-C/T | <i>CUL4A</i>  | 13:113899329 | White | STAD | NA          | 0.625 | .          |

|                  |              |              |       |      |             |       |   |
|------------------|--------------|--------------|-------|------|-------------|-------|---|
| 13:113899329-C/T | <i>CUL4A</i> | 13:113899329 | Asian | STAD | NA          | 0.625 | . |
| 13:113907430-A/G | <i>CUL4A</i> | 13:113907430 | White | COAD | NA          | 0.911 | . |
| 13:113909342-G/A | <i>CUL4A</i> | 13:113909342 | White | LUSC | NA          | 0.439 | . |
| 13:113909342-G/A | <i>CUL4A</i> | 13:113909342 | AA/B  | LUSC | NA          | 0.439 | . |
| 13:21549283-T/C  | <i>LATS2</i> | 13:21549283  | White | COAD | NA          | 0.888 | . |
| 13:21549283-T/C  | <i>LATS2</i> | 13:21549283  | Asian | COAD | NA          | 0.888 | . |
| 13:21549329-G/A  | <i>LATS2</i> | 13:21549329  | White | STAD | NA          | 0.383 | . |
| 13:21549329-G/A  | <i>LATS2</i> | 13:21549329  | Asian | STAD | NA          | 0.383 | . |
| 13:21549342-G/T  | <i>LATS2</i> | 13:21549342  | White | COAD | NA          | 0.206 | . |
| 13:21549425-G/T  | <i>LATS2</i> | 13:21549425  | White | SARC | NA          | 0.168 | . |
| 13:21549425-G/T  | <i>LATS2</i> | 13:21549425  | AA/B  | SARC | NA          | 0.168 | . |
| 13:21555776-T/C  | <i>LATS2</i> | 13:21555776  | White | STAD | NA          | 0.376 | . |
| 13:21557416-A/G  | <i>LATS2</i> | 13:21557416  | White | STAD | NA          | 0.726 | . |
| 13:21557659-A/T  | <i>LATS2</i> | 13:21557659  | AA/B  | LGG  | NA          | 0.741 | . |
| 13:21557659-A/T  | <i>LATS2</i> | 13:21557659  | White | LGG  | NA          | 0.741 | . |
| 13:21557821-C/A  | <i>LATS2</i> | 13:21557821  | AA/B  | LUAD | NA          | 0.896 | . |
| 13:21557821-C/A  | <i>LATS2</i> | 13:21557821  | White | LUAD | NA          | 0.896 | . |
| 13:21557936-A/G  | <i>LATS2</i> | 13:21557936  | Asian | UCEC | NA          | 0.203 | . |
| 13:24995378-G/T  | <i>PARP4</i> | 13:24995378  | White | UCEC | NA          | 0.558 | . |
| 13:25016801-G/T  | <i>PARP4</i> | 13:25016801  | Asian | UCEC | NA          | 0.264 | . |
| 13:25029279-A/C  | <i>PARP4</i> | 13:25029279  | Asian | UCEC | NA          | 0.221 | . |
| 13:25067745-T/G  | <i>PARP4</i> | 13:25067745  | White | STAD | NA          | 0.374 | . |
| 13:25075965-T/C  | <i>PARP4</i> | 13:25075965  | Asian | UCEC | rs372717196 | 0.305 | . |

|                 |              |             |       |      |             |       |                                     |
|-----------------|--------------|-------------|-------|------|-------------|-------|-------------------------------------|
| 13:31037482-G/A | <i>HMGB1</i> | 13:31037482 | White | UCEC | NA          | 0.413 | .                                   |
| 13:32900276-G/T | <i>BRCA2</i> | 13:32900276 | Asian | UCEC | rs377639990 | 0.168 | uncertain_significance              |
| 13:32906456-G/T | <i>BRCA2</i> | 13:32906456 | White | COAD | NA          | 0.168 | uncertain_significance,not_provided |
| 13:32906949-C/A | <i>BRCA2</i> | 13:32906949 | White | COAD | NA          | 0.157 | .                                   |
| 13:32907453-T/G | <i>BRCA2</i> | 13:32907453 | White | COAD | rs587780646 | 0.206 | uncertain_significance              |
| 13:32910426-G/T | <i>BRCA2</i> | 13:32910426 | White | COAD | NA          | 0.121 | .                                   |
| 13:32912190-C/A | <i>BRCA2</i> | 13:32912190 | White | UCEC | NA          | 0.492 | .                                   |
| 13:32912546-G/T | <i>BRCA2</i> | 13:32912546 | White | COAD | rs80358655  | 0.152 | uncertain_significance,not_provided |
| 13:32914550-G/A | <i>BRCA2</i> | 13:32914550 | White | UCEC | NA          | 0.221 | uncertain_significance,not_provided |
| 13:32930688-G/A | <i>BRCA2</i> | 13:32930688 | White | COAD | rs80358982  | 0.638 | .                                   |
| 13:32930746-G/T | <i>BRCA2</i> | 13:32930746 | Asian | STAD | NA          | 0.787 | .                                   |
| 13:32930746-G/T | <i>BRCA2</i> | 13:32930746 | White | STAD | NA          | 0.787 | .                                   |
| 13:32936758-A/G | <i>BRCA2</i> | 13:32936758 | White | COAD | NA          | 0.902 | .                                   |
| 13:32937356-A/G | <i>BRCA2</i> | 13:32937356 | White | LUAD | NA          | 0.801 | .                                   |
| 13:32937356-A/G | <i>BRCA2</i> | 13:32937356 | AA/B  | LUAD | NA          | 0.801 | .                                   |

|                 |              |             |       |      |            |       |   |
|-----------------|--------------|-------------|-------|------|------------|-------|---|
| 13:32937540-C/A | <i>BRCA2</i> | 13:32937540 | Asian | STAD | NA         | 0.533 | .   |
| 13:32937540-C/A | <i>BRCA2</i> | 13:32937540 | White | STAD | NA         | 0.533 | .   |
| 13:32945129-C/T | <i>BRCA2</i> | 13:32945129 | White | UCEC | rs80359104 | 0.843 | uncertain_significance                            |
| 13:32945130-G/A | <i>BRCA2</i> | 13:32945130 | White | COAD | rs80359105 | 0.856 | uncertain_significance,benign,likely_benign       |
| 13:32945130-G/A | <i>BRCA2</i> | 13:32945130 | AA/B  | COAD | rs80359105 | 0.856 | uncertain_significance,benign,likely_benign       |
| 13:32950833-T/A | <i>BRCA2</i> | 13:32950833 | White | KIRC | NA         | 0.202 | .   |
| 13:32950833-T/A | <i>BRCA2</i> | 13:32950833 | AA/B  | KIRC | NA         | 0.202 | .   |
| 13:32968891-G/T | <i>BRCA2</i> | 13:32968891 | White | UCEC | NA         | 0.691 | .   |
| 13:32971062-G/C | <i>BRCA2</i> | 13:32971062 | Asian | BRCA | NA         | 0.552 | .   |
| 13:32971062-G/C | <i>BRCA2</i> | 13:32971062 | White | BRCA | NA         | 0.552 | .   |
| 13:32972645-C/A | <i>BRCA2</i> | 13:32972645 | Asian | UCEC | NA         | 0.12  | .   |
| 13:32972674-G/A | <i>BRCA2</i> | 13:32972674 | White | STAD | rs28897761 | 0.249 | uncertain_significance,not_provided,likely_benign |
| 13:32972674-G/A | <i>BRCA2</i> | 13:32972674 | Asian | STAD | rs28897761 | 0.249 | uncertain_significance,not_provided,likely_benign |
| 13:34395290-C/T | <i>RFC3</i>  | 13:34395290 | White | CESC | NA         | 0.744 | .   |

|                  |               |              |       |      |             |       |   |
|------------------|---------------|--------------|-------|------|-------------|-------|---|
| 13:34395290-C/T  | <i>RFC3</i>   | 13:34395290  | AA/B  | CESC | NA          | 0.744 | . |
| 13:34404916-G/C  | <i>RFC3</i>   | 13:34404916  | AA/B  | LUAD | NA          | 0.684 | . |
| 13:34404916-G/C  | <i>RFC3</i>   | 13:34404916  | White | LUAD | NA          | 0.684 | . |
| 13:48615171-T/G  | <i>NUDT15</i> | 13:48615171  | White | COAD | NA          | 0.522 | . |
| 13:48615171-T/G  | <i>NUDT15</i> | 13:48615171  | Asian | COAD | NA          | 0.522 | . |
| 13:48615235-A/C  | <i>NUDT15</i> | 13:48615235  | White | STAD | NA          | 0.413 | . |
| 13:53617325-T/C  | <i>OLFM4</i>  | 13:53617325  | Asian | STAD | NA          | 0.904 | . |
| 13:53617325-T/C  | <i>OLFM4</i>  | 13:53617325  | White | STAD | NA          | 0.904 | . |
| 13:53624266-G/T  | <i>OLFM4</i>  | 13:53624266  | AA/B  | LUAD | NA          | 0.409 | . |
| 13:53624266-G/T  | <i>OLFM4</i>  | 13:53624266  | White | LUAD | NA          | 0.409 | . |
| 13:53624374-A/G  | <i>OLFM4</i>  | 13:53624374  | Asian | UCEC | NA          | 0.294 | . |
| 13:53624812-G/A  | <i>OLFM4</i>  | 13:53624812  | White | STAD | rs775118318 | 0.092 | . |
| 13:96212695-G/C  | <i>CLDN10</i> | 13:96212695  | White | BRCA | NA          | 0.846 | . |
| 13:96212695-G/C  | <i>CLDN10</i> | 13:96212695  | Asian | BRCA | NA          | 0.846 | . |
| 14:104165817-G/A | <i>XRCC3</i>  | 14:104165817 | AA/B  | BRCA | rs545840795 | 0.72  | . |
| 14:104165817-G/A | <i>XRCC3</i>  | 14:104165817 | White | BRCA | rs545840795 | 0.72  | . |
| 14:104173478-C/A | <i>XRCC3</i>  | 14:104173478 | AA/B  | CESC | NA          | 0.649 | . |
| 14:104173478-C/A | <i>XRCC3</i>  | 14:104173478 | White | CESC | NA          | 0.649 | . |
| 14:104174931-G/T | <i>XRCC3</i>  | 14:104174931 | Asian | THCA | NA          | 0.18  | . |
| 14:104174931-G/T | <i>XRCC3</i>  | 14:104174931 | White | THCA | NA          | 0.18  | . |
| 14:104174939-A/G | <i>XRCC3</i>  | 14:104174939 | White | COAD | rs758434542 | 0.271 | . |
| 14:104174939-A/G | <i>XRCC3</i>  | 14:104174939 | AA/B  | COAD | rs758434542 | 0.271 | . |
| 14:104174984-G/A | <i>XRCC3</i>  | 14:104174984 | White | STAD | rs748765569 | 0.48  | . |

|                  |               |              |       |      |              |       |   |
|------------------|---------------|--------------|-------|------|--------------|-------|---|
| 14:104618692-C/T | <i>KIF26A</i> | 14:104618692 | AA/B  | COAD | rs866358165  | 0.27  | . |
| 14:104618692-C/T | <i>KIF26A</i> | 14:104618692 | White | COAD | rs866358165  | 0.27  | . |
| 14:104639387-G/T | <i>KIF26A</i> | 14:104639387 | White | LUAD | NA           | 0.769 | . |
| 14:104639387-G/T | <i>KIF26A</i> | 14:104639387 | AA/B  | LUAD | NA           | 0.769 | . |
| 14:104639437-C/T | <i>KIF26A</i> | 14:104639437 | AA/B  | CESC | NA           | 0.789 | . |
| 14:104639437-C/T | <i>KIF26A</i> | 14:104639437 | White | CESC | NA           | 0.789 | . |
| 14:104641544-G/A | <i>KIF26A</i> | 14:104641544 | White | COAD | rs1483419517 | 0.506 | . |
| 14:104641544-G/A | <i>KIF26A</i> | 14:104641544 | AA/B  | COAD | rs1483419517 | 0.506 | . |
| 14:104641626-A/T | <i>KIF26A</i> | 14:104641626 | White | STAD | NA           | 0.635 | . |
| 14:104641626-A/T | <i>KIF26A</i> | 14:104641626 | Asian | STAD | NA           | 0.635 | . |
| 14:20813570-C/A  | <i>PARP2</i>  | 14:20813570  | White | UCEC | NA           | 0.092 | . |
| 14:20820412-A/C  | <i>PARP2</i>  | 14:20820412  | AA/B  | OV   | NA           | 0.449 | . |
| 14:20820412-A/C  | <i>PARP2</i>  | 14:20820412  | White | OV   | NA           | 0.449 | . |
| 14:20820418-C/T  | <i>PARP2</i>  | 14:20820418  | White | UCEC | rs778767947  | 0.593 | . |
| 14:20823000-T/C  | <i>PARP2</i>  | 14:20823000  | White | UCEC | NA           | 0.443 | . |
| 14:20925014-G/A  | <i>APEXI</i>  | 14:20925014  | White | STAD | rs1471676715 | 0.822 | . |
| 14:20925014-G/A  | <i>APEXI</i>  | 14:20925014  | White | STAD | rs1471676715 | 0.474 | . |
| 14:20925014-G/A  | <i>APEXI</i>  | 14:20925014  | Asian | STAD | rs1471676715 | 0.822 | . |
| 14:20925014-G/A  | <i>APEXI</i>  | 14:20925014  | Asian | STAD | rs1471676715 | 0.474 | . |
| 14:31074996-G/T  | <i>G2E3</i>   | 14:31074996  | Asian | UCEC | NA           | 0.208 | . |
| 14:31085547-C/T  | <i>G2E3</i>   | 14:31085547  | White | COAD | NA           | 0.845 | . |
| 14:31085686-A/G  | <i>G2E3</i>   | 14:31085686  | Asian | UCEC | NA           | 0.351 | . |
| 14:45605397-G/T  | <i>FANCM</i>  | 14:45605397  | Asian | UCEC | NA           | 0.293 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 14:45605505-G/A | <i>FANCM</i> | 14:45605505 | White | COAD | NA          | 0.098 | . |
| 14:45605505-G/A | <i>FANCM</i> | 14:45605505 | AA/B  | COAD | NA          | 0.098 | . |
| 14:45623909-G/A | <i>FANCM</i> | 14:45623909 | AA/B  | COAD | rs530233908 | 0.192 | . |
| 14:45623909-G/A | <i>FANCM</i> | 14:45623909 | White | COAD | rs530233908 | 0.192 | . |
| 14:45633710-C/A | <i>FANCM</i> | 14:45633710 | White | UCEC | NA          | 0.682 | . |
| 14:45642325-C/A | <i>FANCM</i> | 14:45642325 | White | STAD | NA          | 0.168 | . |
| 14:45642325-C/A | <i>FANCM</i> | 14:45642325 | Asian | STAD | NA          | 0.168 | . |
| 14:45657013-T/C | <i>FANCM</i> | 14:45657013 | White | COAD | NA          | 0.7   | . |
| 14:45657013-T/C | <i>FANCM</i> | 14:45657013 | White | COAD | NA          | 0.269 | . |
| 14:45658222-G/T | <i>FANCM</i> | 14:45658222 | AA/B  | OV   | NA          | 0.207 | . |
| 14:45658222-G/T | <i>FANCM</i> | 14:45658222 | AA/B  | OV   | NA          | 0.362 | . |
| 14:45658222-G/T | <i>FANCM</i> | 14:45658222 | White | OV   | NA          | 0.207 | . |
| 14:45658222-G/T | <i>FANCM</i> | 14:45658222 | White | OV   | NA          | 0.362 | . |
| 14:45665712-G/T | <i>FANCM</i> | 14:45665712 | White | COAD | NA          | 0.39  | . |
| 14:45665712-G/T | <i>FANCM</i> | 14:45665712 | White | COAD | NA          | 0.583 | . |
| 14:45667962-G/C | <i>FANCM</i> | 14:45667962 | White | ESCA | NA          | 0.522 | . |
| 14:45667962-G/C | <i>FANCM</i> | 14:45667962 | White | ESCA | NA          | 0.252 | . |
| 14:45667962-G/C | <i>FANCM</i> | 14:45667962 | Asian | ESCA | NA          | 0.522 | . |
| 14:45667962-G/C | <i>FANCM</i> | 14:45667962 | Asian | ESCA | NA          | 0.252 | . |
| 14:50133100-G/A | <i>POLE2</i> | 14:50133100 | White | UCEC | rs779836154 | 0.263 | . |
| 14:50140860-C/T | <i>POLE2</i> | 14:50140860 | White | STAD | rs773570956 | 0.542 | . |
| 14:50140860-C/T | <i>POLE2</i> | 14:50140860 | Asian | STAD | rs773570956 | 0.542 | . |
| 14:61285485-G/T | <i>MNAT1</i> | 14:61285485 | White | UCEC | NA          | 0.264 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 14:61285492-C/T | <i>MNAT1</i>  | 14:61285492 | AA/B  | CESC | NA           | 0.2   | . |
| 14:61285492-C/T | <i>MNAT1</i>  | 14:61285492 | White | CESC | NA           | 0.2   | . |
| 14:68353826-G/C | <i>RAD51B</i> | 14:68353826 | AA/B  | LUAD | NA           | 0.342 | . |
| 14:68353826-G/C | <i>RAD51B</i> | 14:68353826 | White | LUAD | NA           | 0.342 | . |
| 14:75483894-T/C | <i>MLH3</i>   | 14:75483894 | White | KIRC | rs1258839619 | 0.401 | . |
| 14:75483894-T/C | <i>MLH3</i>   | 14:75483894 | White | KIRC | rs1258839619 | 0.173 | . |
| 14:75483894-T/C | <i>MLH3</i>   | 14:75483894 | AA/B  | KIRC | rs1258839619 | 0.401 | . |
| 14:75483894-T/C | <i>MLH3</i>   | 14:75483894 | AA/B  | KIRC | rs1258839619 | 0.173 | . |
| 14:75489558-G/A | <i>MLH3</i>   | 14:75489558 | White | UCEC | NA           | 0.382 | . |
| 14:75489558-G/A | <i>MLH3</i>   | 14:75489558 | White | UCEC | NA           | 0.77  | . |
| 14:75498786-T/C | <i>MLH3</i>   | 14:75498786 | White | LUSC | NA           | 0.627 | . |
| 14:75498786-T/C | <i>MLH3</i>   | 14:75498786 | White | LUSC | NA           | 0.112 | . |
| 14:75498786-T/C | <i>MLH3</i>   | 14:75498786 | AA/B  | LUSC | NA           | 0.627 | . |
| 14:75498786-T/C | <i>MLH3</i>   | 14:75498786 | AA/B  | LUSC | NA           | 0.112 | . |
| 14:75513607-C/A | <i>MLH3</i>   | 14:75513607 | White | STAD | rs762167939  | 0.533 | . |
| 14:75514101-G/T | <i>MLH3</i>   | 14:75514101 | Asian | UCEC | rs1216078128 | 0.235 | . |
| 14:75515257-C/A | <i>MLH3</i>   | 14:75515257 | White | COAD | rs1345642774 | 0.659 | . |
| 14:75515647-A/G | <i>MLH3</i>   | 14:75515647 | White | BRCA | NA           | 0.461 | . |
| 14:75515647-A/G | <i>MLH3</i>   | 14:75515647 | Asian | BRCA | NA           | 0.461 | . |
| 14:75515730-C/T | <i>MLH3</i>   | 14:75515730 | White | UCEC | rs143631202  | 0.765 | . |
| 14:75516318-C/T | <i>MLH3</i>   | 14:75516318 | White | STAD | rs760072474  | 0.909 | . |
| 14:75516318-C/T | <i>MLH3</i>   | 14:75516318 | Asian | STAD | rs760072474  | 0.909 | . |
| 14:78140268-A/C | <i>ALKBHI</i> | 14:78140268 | White | UCEC | NA           | 0.246 | . |

|                 |               |             |       |      |             |       |   |
|-----------------|---------------|-------------|-------|------|-------------|-------|---|
| 14:78140396-G/T | <i>ALKBH1</i> | 14:78140396 | Asian | STAD | NA          | 0.218 | . |
| 14:78140396-G/T | <i>ALKBH1</i> | 14:78140396 | White | STAD | NA          | 0.218 | . |
| 14:78142116-C/A | <i>ALKBH1</i> | 14:78142116 | Asian | ESCA | NA          | 0.48  | . |
| 14:78142116-C/A | <i>ALKBH1</i> | 14:78142116 | White | ESCA | NA          | 0.48  | . |
| 14:78174215-C/T | <i>ALKBH1</i> | 14:78174215 | Asian | BRCA | NA          | 0.182 | . |
| 14:78174215-C/T | <i>ALKBH1</i> | 14:78174215 | White | BRCA | NA          | 0.182 | . |
| 14:78174263-A/C | <i>ALKBH1</i> | 14:78174263 | White | UCEC | NA          | 0.103 | . |
| 14:90429903-G/T | <i>TDP1</i>   | 14:90429903 | AA/B  | BRCA | NA          | 0.141 | . |
| 14:90429903-G/T | <i>TDP1</i>   | 14:90429903 | White | BRCA | NA          | 0.141 | . |
| 14:90430003-C/A | <i>TDP1</i>   | 14:90430003 | White | THCA | NA          | 0.34  | . |
| 14:90430003-C/A | <i>TDP1</i>   | 14:90430003 | Asian | THCA | NA          | 0.34  | . |
| 14:90437554-G/T | <i>TDP1</i>   | 14:90437554 | White | KIRC | NA          | 0.251 | . |
| 14:90437554-G/T | <i>TDP1</i>   | 14:90437554 | AA/B  | KIRC | NA          | 0.251 | . |
| 14:90509479-C/T | <i>TDP1</i>   | 14:90509479 | Asian | ESCA | NA          | 0.282 | . |
| 14:90509479-C/T | <i>TDP1</i>   | 14:90509479 | White | ESCA | NA          | 0.282 | . |
| 14:94674875-C/T | <i>PPP4R4</i> | 14:94674875 | White | HNSC | rs745732168 | 0.282 | . |
| 14:94674875-C/T | <i>PPP4R4</i> | 14:94674875 | AA/B  | HNSC | rs745732168 | 0.282 | . |
| 14:94674896-A/G | <i>PPP4R4</i> | 14:94674896 | AA/B  | COAD | NA          | 0.208 | . |
| 14:94674896-A/G | <i>PPP4R4</i> | 14:94674896 | White | COAD | NA          | 0.208 | . |
| 14:94700081-A/C | <i>PPP4R4</i> | 14:94700081 | Asian | UCEC | NA          | 0.217 | . |
| 14:94704023-G/T | <i>PPP4R4</i> | 14:94704023 | AA/B  | LUSC | NA          | 0.735 | . |
| 14:94704023-G/T | <i>PPP4R4</i> | 14:94704023 | White | LUSC | NA          | 0.735 | . |
| 14:94712823-G/C | <i>PPP4R4</i> | 14:94712823 | Asian | ESCA | NA          | 0.544 | . |

|                 |               |             |       |      |            |       |   |
|-----------------|---------------|-------------|-------|------|------------|-------|---|
| 14:94712823-G/C | <i>PPP4R4</i> | 14:94712823 | White | ESCA | NA         | 0.544 | . |
| 14:94718151-G/A | <i>PPP4R4</i> | 14:94718151 | White | UCEC | NA         | 0.281 | . |
| 15:31200384-A/C | <i>FAN1</i>   | 15:31200384 | Asian | UCEC | NA         | 0.287 | . |
| 15:31212773-C/A | <i>FAN1</i>   | 15:31212773 | White | UCEC | NA         | 0.601 | . |
| 15:31212791-G/C | <i>FAN1</i>   | 15:31212791 | White | LUAD | NA         | 0.878 | . |
| 15:31212791-G/C | <i>FAN1</i>   | 15:31212791 | AA/B  | LUAD | NA         | 0.878 | . |
| 15:31214442-C/T | <i>FAN1</i>   | 15:31214442 | White | STAD | NA         | 0.789 | . |
| 15:31214442-C/T | <i>FAN1</i>   | 15:31214442 | Asian | STAD | NA         | 0.789 | . |
| 15:31214519-G/T | <i>FAN1</i>   | 15:31214519 | AA/B  | SARC | NA         | 0.636 | . |
| 15:31214519-G/T | <i>FAN1</i>   | 15:31214519 | White | SARC | NA         | 0.636 | . |
| 15:31217427-C/T | <i>FAN1</i>   | 15:31217427 | White | COAD | rs56258078 | 0.31  | . |
| 15:31217427-C/T | <i>FAN1</i>   | 15:31217427 | Asian | COAD | rs56258078 | 0.31  | . |
| 15:31218089-G/A | <i>FAN1</i>   | 15:31218089 | White | STAD | NA         | 0.602 | . |
| 15:31218089-G/A | <i>FAN1</i>   | 15:31218089 | Asian | STAD | NA         | 0.602 | . |
| 15:31221547-A/G | <i>FAN1</i>   | 15:31221547 | AA/B  | LIHC | NA         | 0.578 | . |
| 15:40993345-G/T | <i>RAD51</i>  | 15:40993345 | Asian | UCEC | NA         | 0.29  | . |
| 15:41021711-T/G | <i>RAD51</i>  | 15:41021711 | White | BRCA | NA         | 0.747 | . |
| 15:41021711-T/G | <i>RAD51</i>  | 15:41021711 | Asian | BRCA | NA         | 0.747 | . |
| 15:41275117-C/T | <i>INO80</i>  | 15:41275117 | AA/B  | COAD | NA         | 0.453 | . |
| 15:41275117-C/T | <i>INO80</i>  | 15:41275117 | White | COAD | NA         | 0.453 | . |
| 15:41277616-G/A | <i>INO80</i>  | 15:41277616 | White | UCEC | NA         | 0.16  | . |
| 15:41297869-C/A | <i>INO80</i>  | 15:41297869 | White | COAD | NA         | 0.323 | . |
| 15:41297869-C/A | <i>INO80</i>  | 15:41297869 | AA/B  | COAD | NA         | 0.323 | . |

|                 |                |             |       |      |             |       |   |
|-----------------|----------------|-------------|-------|------|-------------|-------|---|
| 15:41348900-G/T | <i>INO80</i>   | 15:41348900 | Asian | COAD | NA          | 0.939 | . |
| 15:41348900-G/T | <i>INO80</i>   | 15:41348900 | White | COAD | NA          | 0.939 | . |
| 15:41350894-C/T | <i>INO80</i>   | 15:41350894 | White | UCEC | NA          | 0.82  | . |
| 15:41364112-A/C | <i>INO80</i>   | 15:41364112 | Asian | UCEC | NA          | 0.78  | . |
| 15:41366630-G/T | <i>INO80</i>   | 15:41366630 | Asian | UCEC | rs768979105 | 0.534 | . |
| 15:41372056-G/A | <i>INO80</i>   | 15:41372056 | White | UCEC | NA          | 0.331 | . |
| 15:41387808-C/A | <i>INO80</i>   | 15:41387808 | White | UCEC | NA          | 0.469 | . |
| 15:43701236-T/C | <i>TP53BP1</i> | 15:43701236 | AA/B  | BRCA | NA          | 0.949 | . |
| 15:43701236-T/C | <i>TP53BP1</i> | 15:43701236 | AA/B  | BRCA | NA          | 0.656 | . |
| 15:43701236-T/C | <i>TP53BP1</i> | 15:43701236 | White | BRCA | NA          | 0.949 | . |
| 15:43701236-T/C | <i>TP53BP1</i> | 15:43701236 | White | BRCA | NA          | 0.656 | . |
| 15:43708431-A/C | <i>TP53BP1</i> | 15:43708431 | AA/B  | BRCA | NA          | 0.528 | . |
| 15:43708431-A/C | <i>TP53BP1</i> | 15:43708431 | White | BRCA | NA          | 0.528 | . |
| 15:43712668-A/C | <i>TP53BP1</i> | 15:43712668 | Asian | COAD | NA          | 0.705 | . |
| 15:43712668-A/C | <i>TP53BP1</i> | 15:43712668 | White | COAD | NA          | 0.705 | . |
| 15:43712793-C/T | <i>TP53BP1</i> | 15:43712793 | Asian | STAD | rs770333392 | 0.213 | . |
| 15:43712793-C/T | <i>TP53BP1</i> | 15:43712793 | White | STAD | rs770333392 | 0.213 | . |
| 15:43712857-G/T | <i>TP53BP1</i> | 15:43712857 | White | STAD | NA          | 0.194 | . |
| 15:43712857-G/T | <i>TP53BP1</i> | 15:43712857 | Asian | STAD | NA          | 0.194 | . |
| 15:43738588-C/T | <i>TP53BP1</i> | 15:43738588 | White | UCEC | NA          | 0.154 | . |
| 15:43748803-T/C | <i>TP53BP1</i> | 15:43748803 | White | COAD | NA          | 0.126 | . |
| 15:43749260-C/A | <i>TP53BP1</i> | 15:43749260 | White | COAD | rs751008850 | 0.14  | . |
| 15:43749260-C/A | <i>TP53BP1</i> | 15:43749260 | AA/B  | COAD | rs751008850 | 0.14  | . |

|                 |                |             |       |      |              |       |   |
|-----------------|----------------|-------------|-------|------|--------------|-------|---|
| 15:48633554-T/C | <i>DUT</i>     | 15:48633554 | White | UCEC | NA           | 0.446 | . |
| 15:75641571-C/T | <i>NEIL1</i>   | 15:75641571 | Asian | BRCA | rs774784149  | 0.015 | . |
| 15:75641571-C/T | <i>NEIL1</i>   | 15:75641571 | Asian | BRCA | rs774784149  | 0.109 | . |
| 15:75641571-C/T | <i>NEIL1</i>   | 15:75641571 | White | BRCA | rs774784149  | 0.015 | . |
| 15:75641571-C/T | <i>NEIL1</i>   | 15:75641571 | White | BRCA | rs774784149  | 0.109 | . |
| 15:75641589-G/A | <i>NEIL1</i>   | 15:75641589 | Asian | UCEC | rs1428879515 | 0.299 | . |
| 15:75641589-G/A | <i>NEIL1</i>   | 15:75641589 | Asian | UCEC | rs1428879515 | 0.234 | . |
| 15:75641646-G/A | <i>NEIL1</i>   | 15:75641646 | White | UCEC | rs1372290135 | 0.636 | . |
| 15:75641646-G/A | <i>NEIL1</i>   | 15:75641646 | White | UCEC | rs1372290135 | 0.603 | . |
| 15:75644552-C/T | <i>NEIL1</i>   | 15:75644552 | AA/B  | LUSC | rs1262433075 | 0.218 | . |
| 15:75644552-C/T | <i>NEIL1</i>   | 15:75644552 | White | LUSC | rs1262433075 | 0.218 | . |
| 15:79172918-A/C | <i>MORF4L1</i> | 15:79172918 | White | STAD | NA           | 0.38  | . |
| 15:79178521-A/G | <i>MORF4L1</i> | 15:79178521 | White | KIRC | NA           | 0.415 | . |
| 15:79178521-A/G | <i>MORF4L1</i> | 15:79178521 | AA/B  | KIRC | NA           | 0.415 | . |
| 15:79178563-C/G | <i>MORF4L1</i> | 15:79178563 | Asian | BRCA | NA           | 0.151 | . |
| 15:79178563-C/G | <i>MORF4L1</i> | 15:79178563 | White | BRCA | NA           | 0.151 | . |
| 15:89169555-C/T | <i>AEN</i>     | 15:89169555 | White | UCEC | rs756247681  | 0.209 | . |
| 15:89804904-C/A | <i>FANCI</i>   | 15:89804904 | White | COAD | NA           | 0.327 | . |
| 15:89807223-C/A | <i>FANCI</i>   | 15:89807223 | White | UCEC | NA           | 0.487 | . |
| 15:89817416-G/T | <i>FANCI</i>   | 15:89817416 | Asian | UCEC | NA           | 0.362 | . |
| 15:89828363-G/A | <i>FANCI</i>   | 15:89828363 | Asian | UCEC | rs147963936  | 0.267 | . |
| 15:89848408-A/C | <i>FANCI</i>   | 15:89848408 | White | UCEC | NA           | 0.368 | . |
| 15:89849327-G/A | <i>FANCI</i>   | 15:89849327 | White | STAD | NA           | 0.628 | . |

|                 |              |             |       |      |             |       |                        |
|-----------------|--------------|-------------|-------|------|-------------|-------|------------------------|
| 15:89849348-C/T | <i>FANCI</i> | 15:89849348 | AA/B  | LUSC | NA          | 0.752 | .                      |
| 15:89849348-C/T | <i>FANCI</i> | 15:89849348 | White | LUSC | NA          | 0.752 | .                      |
| 15:89870423-C/T | <i>POLG</i>  | 15:89870423 | White | COAD | NA          | 0.662 | .                      |
| 15:89870423-C/T | <i>POLG</i>  | 15:89870423 | AA/B  | COAD | NA          | 0.662 | .                      |
| 15:89870576-G/A | <i>POLG</i>  | 15:89870576 | Asian | UCEC | NA          | 0.943 | .                      |
| 15:89873431-G/A | <i>POLG</i>  | 15:89873431 | Asian | BRCA | NA          | 0.838 | .                      |
| 15:89873431-G/A | <i>POLG</i>  | 15:89873431 | White | BRCA | NA          | 0.838 | .                      |
| 15:89873506-A/G | <i>POLG</i>  | 15:89873506 | Asian | UCEC | NA          | 0.944 | .                      |
| 15:91290665-C/T | <i>BLM</i>   | 15:91290665 | AA/B  | BRCA | rs148545569 | 0.182 | .                      |
| 15:91290665-C/T | <i>BLM</i>   | 15:91290665 | White | BRCA | rs148545569 | 0.182 | .                      |
| 15:91293070-G/T | <i>BLM</i>   | 15:91293070 | White | UCEC | rs569086568 | 0.078 | .                      |
| 15:91293192-A/T | <i>BLM</i>   | 15:91293192 | White | BRCA | NA          | 0.055 | .                      |
| 15:91293192-A/T | <i>BLM</i>   | 15:91293192 | AA/B  | BRCA | NA          | 0.055 | .                      |
| 15:91295100-G/T | <i>BLM</i>   | 15:91295100 | AA/B  | COAD | rs146096923 | 0.221 | .                      |
| 15:91295100-G/T | <i>BLM</i>   | 15:91295100 | White | COAD | rs146096923 | 0.221 | .                      |
| 15:91295128-C/A | <i>BLM</i>   | 15:91295128 | White | UCEC | NA          | 0.401 | .                      |
| 15:91306363-G/T | <i>BLM</i>   | 15:91306363 | Asian | STAD | NA          | 0.681 | .                      |
| 15:91306363-G/T | <i>BLM</i>   | 15:91306363 | White | STAD | NA          | 0.681 | .                      |
| 15:91310169-G/T | <i>BLM</i>   | 15:91310169 | White | UCEC | NA          | 0.067 | .                      |
| 15:91312388-C/T | <i>BLM</i>   | 15:91312388 | AA/B  | BRCA | NA          | 0.677 | uncertain_significance |
| 15:91312388-C/T | <i>BLM</i>   | 15:91312388 | White | BRCA | NA          | 0.677 | uncertain_significance |

|                 |              |             |       |      |             |       |                          |
|-----------------|--------------|-------------|-------|------|-------------|-------|--------------------------|
| 15:91341532-G/C | <i>BLM</i>   | 15:91341532 | White | BRCA | NA          | 0.645 | .                        |
| 15:91341532-G/C | <i>BLM</i>   | 15:91341532 | AA/B  | BRCA | NA          | 0.645 | .                        |
| 15:91347418-A/C | <i>BLM</i>   | 15:91347418 | Asian | UCEC | NA          | 0.148 | .                        |
| 15:91358484-T/G | <i>BLM</i>   | 15:91358484 | Asian | STAD | NA          | 0.333 | .                        |
| 15:91358484-T/G | <i>BLM</i>   | 15:91358484 | White | STAD | NA          | 0.333 | .                        |
| 16:11444642-C/T | <i>RMI2</i>  | 16:11444642 | White | STAD | NA          | 0.207 | .                        |
| 16:135519-C/T   | <i>MPG</i>   | 16:135519   | White | COAD | NA          | 0.534 | .                        |
| 16:14020477-C/T | <i>ERCC4</i> | 16:14020477 | Asian | STAD | rs145402255 | 0.893 | .                        |
| 16:14020477-C/T | <i>ERCC4</i> | 16:14020477 | White | STAD | rs145402255 | 0.893 | .                        |
| 16:14022058-C/T | <i>ERCC4</i> | 16:14022058 | White | COAD | NA          | 0.414 | .                        |
| 16:14026041-C/T | <i>ERCC4</i> | 16:14026041 | White | UCEC | rs750883282 | 0.243 | .                        |
| 16:14029408-C/T | <i>ERCC4</i> | 16:14029408 | White | UCEC | rs368830992 | 0.298 | .                        |
| 16:14029473-G/A | <i>ERCC4</i> | 16:14029473 | Asian | UCEC | rs55736359  | 0.354 | .                        |
| 16:14041603-T/C | <i>ERCC4</i> | 16:14041603 | Asian | COAD | NA          | 0.527 | .                        |
| 16:14041603-T/C | <i>ERCC4</i> | 16:14041603 | White | COAD | NA          | 0.527 | .                        |
| 16:14041848-C/T | <i>ERCC4</i> | 16:14041848 | White | UCEC | rs121913049 | 0.51  | not_provided, pathogenic |
| 16:1555562-T/A  | <i>TELO2</i> | 16:1555562  | AA/B  | COAD | NA          | 0.282 | .                        |
| 16:1555562-T/A  | <i>TELO2</i> | 16:1555562  | White | COAD | NA          | 0.282 | .                        |
| 16:1556293-G/A  | <i>TELO2</i> | 16:1556293  | White | STAD | rs145891685 | 0.365 | .                        |
| 16:1556293-G/A  | <i>TELO2</i> | 16:1556293  | Asian | STAD | rs145891685 | 0.365 | .                        |
| 16:18827649-T/G | <i>SMG1</i>  | 16:18827649 | Asian | UCEC | NA          | 0.392 | .                        |
| 16:18830918-G/T | <i>SMG1</i>  | 16:18830918 | White | BRCA | NA          | 0.447 | .                        |

|                 |             |             |       |      |             |       |   |
|-----------------|-------------|-------------|-------|------|-------------|-------|---|
| 16:18830918-G/T | <i>SMG1</i> | 16:18830918 | Asian | BRCA | NA          | 0.447 | . |
| 16:18840639-T/A | <i>SMG1</i> | 16:18840639 | White | ESCA | NA          | 0.316 | . |
| 16:18840639-T/A | <i>SMG1</i> | 16:18840639 | Asian | ESCA | NA          | 0.316 | . |
| 16:18840712-C/T | <i>SMG1</i> | 16:18840712 | White | UCEC | NA          | 0.179 | . |
| 16:18840904-C/T | <i>SMG1</i> | 16:18840904 | White | COAD | NA          | 0.318 | . |
| 16:18840904-C/T | <i>SMG1</i> | 16:18840904 | AA/B  | COAD | NA          | 0.318 | . |
| 16:18844442-C/T | <i>SMG1</i> | 16:18844442 | White | UCEC | NA          | 0.337 | . |
| 16:18845696-G/A | <i>SMG1</i> | 16:18845696 | White | COAD | NA          | 0.233 | . |
| 16:18845696-G/A | <i>SMG1</i> | 16:18845696 | AA/B  | COAD | NA          | 0.233 | . |
| 16:18845745-C/A | <i>SMG1</i> | 16:18845745 | White | THCA | NA          | 0.361 | . |
| 16:18845745-C/A | <i>SMG1</i> | 16:18845745 | AA/B  | THCA | NA          | 0.361 | . |
| 16:18846365-G/A | <i>SMG1</i> | 16:18846365 | Asian | STAD | NA          | 0.491 | . |
| 16:18846365-G/A | <i>SMG1</i> | 16:18846365 | White | STAD | NA          | 0.491 | . |
| 16:18847333-C/T | <i>SMG1</i> | 16:18847333 | Asian | UCEC | NA          | 0.462 | . |
| 16:18848585-G/T | <i>SMG1</i> | 16:18848585 | AA/B  | CESC | NA          | 0.126 | . |
| 16:18848585-G/T | <i>SMG1</i> | 16:18848585 | White | CESC | NA          | 0.126 | . |
| 16:18849875-T/G | <i>SMG1</i> | 16:18849875 | White | COAD | NA          | 0.863 | . |
| 16:18851057-G/T | <i>SMG1</i> | 16:18851057 | White | COAD | NA          | 0.672 | . |
| 16:18851057-G/T | <i>SMG1</i> | 16:18851057 | AA/B  | COAD | NA          | 0.672 | . |
| 16:18853011-C/T | <i>SMG1</i> | 16:18853011 | White | CESC | rs749375278 | 0.706 | . |
| 16:18853011-C/T | <i>SMG1</i> | 16:18853011 | AA/B  | CESC | rs749375278 | 0.706 | . |
| 16:18856860-T/C | <i>SMG1</i> | 16:18856860 | White | STAD | NA          | 0.552 | . |
| 16:18856864-G/A | <i>SMG1</i> | 16:18856864 | AA/B  | BRCA | NA          | 0.362 | . |

|                 |                 |             |       |      |              |       |   |
|-----------------|-----------------|-------------|-------|------|--------------|-------|---|
| 16:18856864-G/A | <i>SMG1</i>     | 16:18856864 | White | BRCA | NA           | 0.362 | . |
| 16:18861600-A/C | <i>SMG1</i>     | 16:18861600 | White | OV   | NA           | 0.652 | . |
| 16:18861600-A/C | <i>SMG1</i>     | 16:18861600 | AA/B  | OV   | NA           | 0.652 | . |
| 16:18865138-C/T | <i>SMG1</i>     | 16:18865138 | White | STAD | NA           | 0.447 | . |
| 16:18865138-C/T | <i>SMG1</i>     | 16:18865138 | Asian | STAD | NA           | 0.447 | . |
| 16:18879652-T/C | <i>SMG1</i>     | 16:18879652 | White | UCEC | NA           | 0.454 | . |
| 16:18880584-C/G | <i>SMG1</i>     | 16:18880584 | AA/B  | OV   | NA           | 0.277 | . |
| 16:18880584-C/G | <i>SMG1</i>     | 16:18880584 | White | OV   | NA           | 0.277 | . |
| 16:18882025-T/A | <i>SMG1</i>     | 16:18882025 | White | LUAD | NA           | 0.437 | . |
| 16:18882025-T/A | <i>SMG1</i>     | 16:18882025 | AA/B  | LUAD | NA           | 0.437 | . |
| 16:18882026-C/T | <i>SMG1</i>     | 16:18882026 | Asian | UCEC | NA           | 0.169 | . |
| 16:18883506-C/A | <i>SMG1</i>     | 16:18883506 | White | UCEC | NA           | 0.476 | . |
| 16:18887715-C/A | <i>SMG1</i>     | 16:18887715 | AA/B  | COAD | NA           | 0.357 | . |
| 16:18887715-C/A | <i>SMG1</i>     | 16:18887715 | White | COAD | NA           | 0.357 | . |
| 16:18896939-T/G | <i>SMG1</i>     | 16:18896939 | Asian | UCEC | NA           | 0.291 | . |
| 16:2090176-G/A  | <i>NTHL1</i>    | 16:2090176  | White | BRCA | NA           | 0.254 | . |
| 16:2090176-G/A  | <i>NTHL1</i>    | 16:2090176  | Asian | BRCA | NA           | 0.254 | . |
| 16:2090218-C/T  | <i>NTHL1</i>    | 16:2090218  | White | CESC | NA           | 0.942 | . |
| 16:2090218-C/T  | <i>NTHL1</i>    | 16:2090218  | AA/B  | CESC | NA           | 0.942 | . |
| 16:2094717-G/A  | <i>NTHL1</i>    | 16:2094717  | White | LUAD | NA           | 0.537 | . |
| 16:2094717-G/A  | <i>NTHL1</i>    | 16:2094717  | AA/B  | LUAD | NA           | 0.537 | . |
| 16:2287477-G/T  | <i>DNASE1L2</i> | 16:2287477  | White | SARC | rs1381234602 | 0.329 | . |
| 16:2287477-G/T  | <i>DNASE1L2</i> | 16:2287477  | White | SARC | rs1381234602 | 0.25  | . |

|                 |                 |             |       |      |              |       |                        |
|-----------------|-----------------|-------------|-------|------|--------------|-------|------------------------|
| 16:2287477-G/T  | <i>DNASE1L2</i> | 16:2287477  | AA/B  | SARC | rs1381234602 | 0.329 | .                      |
| 16:2287477-G/T  | <i>DNASE1L2</i> | 16:2287477  | AA/B  | SARC | rs1381234602 | 0.25  | .                      |
| 16:23637631-C/T | <i>PALB2</i>    | 16:23637631 | Asian | UCEC | rs45476495   | 0.273 | uncertain_significance |
| 16:23641346-G/A | <i>PALB2</i>    | 16:23641346 | White | COAD | rs759024828  | 0.181 | .                      |
| 16:23641346-G/A | <i>PALB2</i>    | 16:23641346 | AA/B  | COAD | rs759024828  | 0.181 | .                      |
| 16:27268789-G/A | <i>NSMCE1</i>   | 16:27268789 | White | COAD | rs1444560834 | 0.15  | .                      |
| 16:27268789-G/A | <i>NSMCE1</i>   | 16:27268789 | AA/B  | COAD | rs1444560834 | 0.15  | .                      |
| 16:28970042-A/G | <i>NFATC2IP</i> | 16:28970042 | White | COAD | NA           | 0.132 | .                      |
| 16:28970042-A/G | <i>NFATC2IP</i> | 16:28970042 | AA/B  | COAD | NA           | 0.132 | .                      |
| 16:28970093-C/T | <i>NFATC2IP</i> | 16:28970093 | White | BRCA | NA           | 0.145 | .                      |
| 16:28970093-C/T | <i>NFATC2IP</i> | 16:28970093 | Asian | BRCA | NA           | 0.145 | .                      |
| 16:28975083-C/T | <i>NFATC2IP</i> | 16:28975083 | Asian | STAD | rs370348916  | 0.056 | .                      |
| 16:28975083-C/T | <i>NFATC2IP</i> | 16:28975083 | White | STAD | rs370348916  | 0.056 | .                      |
| 16:30094074-G/T | <i>PPP4C</i>    | 16:30094074 | AA/B  | SARC | NA           | 0.574 | .                      |
| 16:30094074-G/T | <i>PPP4C</i>    | 16:30094074 | White | SARC | NA           | 0.574 | .                      |
| 16:30094776-A/G | <i>PPP4C</i>    | 16:30094776 | AA/B  | COAD | NA           | 0.521 | .                      |
| 16:30094776-A/G | <i>PPP4C</i>    | 16:30094776 | White | COAD | NA           | 0.521 | .                      |
| 16:30096043-G/A | <i>PPP4C</i>    | 16:30096043 | Asian | STAD | NA           | 0.445 | .                      |
| 16:30096043-G/A | <i>PPP4C</i>    | 16:30096043 | White | STAD | NA           | 0.445 | .                      |
| 16:30096088-C/T | <i>PPP4C</i>    | 16:30096088 | Asian | UCEC | NA           | 0.74  | .                      |
| 16:30096288-G/A | <i>PPP4C</i>    | 16:30096288 | White | STAD | rs1388779212 | 0.33  | .                      |
| 16:30096288-G/A | <i>PPP4C</i>    | 16:30096288 | Asian | STAD | rs1388779212 | 0.33  | .                      |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 16:30096315-T/G | <i>PPP4C</i> | 16:30096315 | White | UCEC | NA          | 0.481 | . |
| 16:30490775-C/T | <i>ITGAL</i> | 16:30490775 | Asian | UCEC | NA          | 0.351 | . |
| 16:30495488-T/A | <i>ITGAL</i> | 16:30495488 | Asian | UCEC | NA          | 0.72  | . |
| 16:30500615-C/A | <i>ITGAL</i> | 16:30500615 | White | UCEC | NA          | 0.487 | . |
| 16:30507854-C/A | <i>ITGAL</i> | 16:30507854 | White | KIRC | NA          | 0.344 | . |
| 16:30507854-C/A | <i>ITGAL</i> | 16:30507854 | AA/B  | KIRC | NA          | 0.344 | . |
| 16:30522424-C/A | <i>ITGAL</i> | 16:30522424 | White | STAD | NA          | 0.398 | . |
| 16:30530036-C/T | <i>ITGAL</i> | 16:30530036 | Asian | UCEC | NA          | 0.176 | . |
| 16:3633486-G/A  | <i>SLX4</i>  | 16:3633486  | White | STAD | rs181782315 | 0.256 | . |
| 16:3633486-G/A  | <i>SLX4</i>  | 16:3633486  | Asian | STAD | rs181782315 | 0.256 | . |
| 16:3639200-C/T  | <i>SLX4</i>  | 16:3639200  | White | KIRC | NA          | 0.121 | . |
| 16:3639200-C/T  | <i>SLX4</i>  | 16:3639200  | AA/B  | KIRC | NA          | 0.121 | . |
| 16:3639441-C/T  | <i>SLX4</i>  | 16:3639441  | White | UCEC | rs376112909 | 0.175 | . |
| 16:3639963-G/A  | <i>SLX4</i>  | 16:3639963  | AA/B  | UCEC | rs142008398 | 0.055 | . |
| 16:3639963-G/A  | <i>SLX4</i>  | 16:3639963  | White | UCEC | rs142008398 | 0.055 | . |
| 16:3640169-G/A  | <i>SLX4</i>  | 16:3640169  | Asian | STAD | rs769688259 | 0.238 | . |
| 16:3640169-G/A  | <i>SLX4</i>  | 16:3640169  | White | STAD | rs769688259 | 0.238 | . |
| 16:3640733-C/A  | <i>SLX4</i>  | 16:3640733  | White | COAD | NA          | 0.044 | . |
| 16:3640733-C/A  | <i>SLX4</i>  | 16:3640733  | Asian | COAD | NA          | 0.044 | . |
| 16:3641077-A/C  | <i>SLX4</i>  | 16:3641077  | Asian | UCEC | NA          | 0.184 | . |
| 16:3641118-C/G  | <i>SLX4</i>  | 16:3641118  | AA/B  | LUSC | NA          | 0.148 | . |
| 16:3641118-C/G  | <i>SLX4</i>  | 16:3641118  | White | LUSC | NA          | 0.148 | . |
| 16:3647942-G/A  | <i>SLX4</i>  | 16:3647942  | AA/B  | COAD | rs758029323 | 0.102 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 16:3647942-G/A  | <i>SLX4</i>  | 16:3647942  | White | COAD | rs758029323 | 0.102 | . |
| 16:3658824-C/T  | <i>SLX4</i>  | 16:3658824  | White | CESC | NA          | 0.216 | . |
| 16:3658824-C/T  | <i>SLX4</i>  | 16:3658824  | AA/B  | CESC | NA          | 0.216 | . |
| 16:57057706-G/A | <i>NLRC5</i> | 16:57057706 | White | COAD | rs778759493 | 0.348 | . |
| 16:57059388-C/A | <i>NLRC5</i> | 16:57059388 | White | UCEC | NA          | 0.247 | . |
| 16:57059720-G/A | <i>NLRC5</i> | 16:57059720 | Asian | STAD | NA          | 0.247 | . |
| 16:57059720-G/A | <i>NLRC5</i> | 16:57059720 | Asian | STAD | NA          | 0.033 | . |
| 16:57059720-G/A | <i>NLRC5</i> | 16:57059720 | White | STAD | NA          | 0.247 | . |
| 16:57059720-G/A | <i>NLRC5</i> | 16:57059720 | White | STAD | NA          | 0.033 | . |
| 16:57060290-G/T | <i>NLRC5</i> | 16:57060290 | Asian | UCEC | NA          | 0.621 | . |
| 16:57060290-G/T | <i>NLRC5</i> | 16:57060290 | Asian | UCEC | NA          | 0.438 | . |
| 16:57060873-C/A | <i>NLRC5</i> | 16:57060873 | AA/B  | KIRC | NA          | 0.123 | . |
| 16:57060873-C/A | <i>NLRC5</i> | 16:57060873 | White | KIRC | NA          | 0.123 | . |
| 16:57070034-G/A | <i>NLRC5</i> | 16:57070034 | White | CESC | NA          | 0.192 | . |
| 16:57070034-G/A | <i>NLRC5</i> | 16:57070034 | White | CESC | NA          | 0.232 | . |
| 16:57070034-G/T | <i>NLRC5</i> | 16:57070034 | Asian | UCEC | NA          | 0.542 | . |
| 16:57070034-G/T | <i>NLRC5</i> | 16:57070034 | Asian | UCEC | NA          | 0.335 | . |
| 16:57081459-T/A | <i>NLRC5</i> | 16:57081459 | AA/B  | COAD | NA          | 0.295 | . |
| 16:57081459-T/A | <i>NLRC5</i> | 16:57081459 | White | COAD | NA          | 0.295 | . |
| 16:57088695-C/G | <i>NLRC5</i> | 16:57088695 | AA/B  | KIRC | NA          | 0.072 | . |
| 16:57088695-C/G | <i>NLRC5</i> | 16:57088695 | White | KIRC | NA          | 0.072 | . |
| 16:57101739-C/T | <i>NLRC5</i> | 16:57101739 | White | COAD | rs772554645 | 0.206 | . |
| 16:57101739-C/T | <i>NLRC5</i> | 16:57101739 | White | COAD | rs772554645 | 0.219 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 16:57116382-A/G | <i>NLRC5</i> | 16:57116382 | AA/B  | COAD | NA          | 0.163 | . |
| 16:57116382-A/G | <i>NLRC5</i> | 16:57116382 | White | COAD | NA          | 0.163 | . |
| 16:84792352-A/C | <i>USP10</i> | 16:84792352 | White | STAD | NA          | 0.203 | . |
| 16:84806268-C/A | <i>USP10</i> | 16:84806268 | White | COAD | NA          | 0.524 | . |
| 16:84806268-C/A | <i>USP10</i> | 16:84806268 | Asian | COAD | NA          | 0.524 | . |
| 16:84808811-G/A | <i>USP10</i> | 16:84808811 | White | COAD | rs779592460 | 0.307 | . |
| 16:89811418-G/A | <i>FANCA</i> | 16:89811418 | White | STAD | rs780078373 | 0.272 | . |
| 16:89811418-G/A | <i>FANCA</i> | 16:89811418 | Asian | STAD | rs780078373 | 0.272 | . |
| 16:89836275-C/A | <i>FANCA</i> | 16:89836275 | White | UCEC | NA          | 0.396 | . |
| 16:89858352-G/A | <i>FANCA</i> | 16:89858352 | White | UCEC | rs762736991 | 0.351 | . |
| 16:8987895-C/T  | <i>USP7</i>  | 16:8987895  | White | UCEC | NA          | 0.224 | . |
| 16:8988917-C/T  | <i>USP7</i>  | 16:8988917  | AA/B  | COAD | NA          | 0.643 | . |
| 16:8988917-C/T  | <i>USP7</i>  | 16:8988917  | White | COAD | NA          | 0.643 | . |
| 16:8999107-C/A  | <i>USP7</i>  | 16:8999107  | White | LUAD | NA          | 0.465 | . |
| 16:8999107-C/A  | <i>USP7</i>  | 16:8999107  | AA/B  | LUAD | NA          | 0.465 | . |
| 16:9004622-C/T  | <i>USP7</i>  | 16:9004622  | White | COAD | NA          | 0.333 | . |
| 16:9004622-C/T  | <i>USP7</i>  | 16:9004622  | Asian | COAD | NA          | 0.333 | . |
| 16:9004637-C/T  | <i>USP7</i>  | 16:9004637  | White | STAD | NA          | 0.317 | . |
| 16:9004637-C/T  | <i>USP7</i>  | 16:9004637  | Asian | STAD | NA          | 0.317 | . |
| 16:9012974-C/A  | <i>USP7</i>  | 16:9012974  | White | LUAD | NA          | 0.6   | . |
| 16:9012974-C/A  | <i>USP7</i>  | 16:9012974  | AA/B  | LUAD | NA          | 0.6   | . |
| 16:9017177-C/T  | <i>USP7</i>  | 16:9017177  | White | COAD | NA          | 0.412 | . |
| 16:9017177-C/T  | <i>USP7</i>  | 16:9017177  | Asian | UCEC | NA          | 0.412 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 17:1791985-C/A  | <i>RPA1</i>  | 17:1791985  | Asian | UCEC | NA          | 0.249 | . |
| 17:18193997-G/A | <i>TOP3A</i> | 17:18193997 | White | UCEC | NA          | 0.198 | . |
| 17:18202892-G/A | <i>TOP3A</i> | 17:18202892 | Asian | ESCA | NA          | 0.647 | . |
| 17:18202892-G/A | <i>TOP3A</i> | 17:18202892 | White | ESCA | NA          | 0.647 | . |
| 17:18210210-T/C | <i>TOP3A</i> | 17:18210210 | AA/B  | COAD | NA          | 0.196 | . |
| 17:18210210-T/C | <i>TOP3A</i> | 17:18210210 | AA/B  | COAD | NA          | 0.29  | . |
| 17:18210210-T/C | <i>TOP3A</i> | 17:18210210 | White | COAD | NA          | 0.196 | . |
| 17:18210210-T/C | <i>TOP3A</i> | 17:18210210 | White | COAD | NA          | 0.29  | . |
| 17:29161242-A/C | <i>ATAD5</i> | 17:29161242 | Asian | UCEC | NA          | 0.174 | . |
| 17:29161280-A/G | <i>ATAD5</i> | 17:29161280 | Asian | UCEC | NA          | 0.194 | . |
| 17:29161500-T/C | <i>ATAD5</i> | 17:29161500 | White | COAD | NA          | 0.054 | . |
| 17:29161500-T/C | <i>ATAD5</i> | 17:29161500 | AA/B  | COAD | NA          | 0.054 | . |
| 17:29161721-A/G | <i>ATAD5</i> | 17:29161721 | Asian | UCEC | NA          | 0.144 | . |
| 17:29162176-G/T | <i>ATAD5</i> | 17:29162176 | White | UCEC | NA          | 0.139 | . |
| 17:29162562-C/A | <i>ATAD5</i> | 17:29162562 | Asian | UCEC | NA          | 0.171 | . |
| 17:29196541-C/T | <i>ATAD5</i> | 17:29196541 | White | UCEC | NA          | 0.569 | . |
| 17:29196559-C/A | <i>ATAD5</i> | 17:29196559 | Asian | UCEC | NA          | 0.143 | . |
| 17:29206474-T/C | <i>ATAD5</i> | 17:29206474 | White | UCEC | NA          | 0.353 | . |
| 17:29219769-T/G | <i>ATAD5</i> | 17:29219769 | Asian | UCEC | NA          | 0.363 | . |
| 17:33310298-C/T | <i>LIG3</i>  | 17:33310298 | White | UCEC | rs151123339 | 0.28  | . |
| 17:33318091-T/G | <i>LIG3</i>  | 17:33318091 | Asian | UCEC | NA          | 0.313 | . |
| 17:33318128-G/A | <i>LIG3</i>  | 17:33318128 | Asian | ESCA | NA          | 0.573 | . |
| 17:33318128-G/A | <i>LIG3</i>  | 17:33318128 | White | ESCA | NA          | 0.573 | . |

|                 |                |             |       |      |              |       |   |
|-----------------|----------------|-------------|-------|------|--------------|-------|---|
| 17:33319550-G/A | <i>LIG3</i>    | 17:33319550 | Asian | STAD | NA           | 0.491 | . |
| 17:33319550-G/A | <i>LIG3</i>    | 17:33319550 | White | STAD | NA           | 0.491 | . |
| 17:33319550-G/A | <i>LIG3</i>    | 17:33319550 | White | UCEC | NA           | 0.491 | . |
| 17:33331364-C/T | <i>LIG3</i>    | 17:33331364 | White | STAD | rs756649783  | 0.402 | . |
| 17:33331364-C/T | <i>LIG3</i>    | 17:33331364 | Asian | STAD | rs756649783  | 0.402 | . |
| 17:33331400-G/A | <i>LIG3</i>    | 17:33331400 | White | UCEC | NA           | 0.162 | . |
| 17:33331509-T/C | <i>LIG3</i>    | 17:33331509 | White | LUAD | NA           | 0.32  | . |
| 17:33331509-T/C | <i>LIG3</i>    | 17:33331509 | AA/B  | LUAD | NA           | 0.32  | . |
| 17:33434083-A/G | <i>RAD51D</i>  | 17:33434083 | AA/B  | COAD | rs1409370576 | 0.304 | . |
| 17:33434083-A/G | <i>RAD51D</i>  | 17:33434083 | White | COAD | rs1409370576 | 0.304 | . |
| 17:33434093-C/T | <i>RAD51D</i>  | 17:33434093 | White | UCEC | rs201141245  | 0.229 | . |
| 17:34249635-C/T | <i>RDM1</i>    | 17:34249635 | White | STAD | NA           | 0.294 | . |
| 17:37922216-G/A | <i>IKZF3</i>   | 17:37922216 | Asian | STAD | NA           | 0.361 | . |
| 17:37922216-G/A | <i>IKZF3</i>   | 17:37922216 | White | STAD | NA           | 0.361 | . |
| 17:37922387-G/A | <i>IKZF3</i>   | 17:37922387 | Asian | STAD | rs748446589  | 0.283 | . |
| 17:37922387-G/A | <i>IKZF3</i>   | 17:37922387 | White | STAD | rs748446589  | 0.283 | . |
| 17:37922668-C/A | <i>IKZF3</i>   | 17:37922668 | White | UCEC | NA           | 0.225 | . |
| 17:37922668-C/A | <i>IKZF3</i>   | 17:37922668 | White | UCEC | NA           | 0.272 | . |
| 17:37933933-C/T | <i>IKZF3</i>   | 17:37933933 | White | UCEC | NA           | 0.356 | . |
| 17:37933933-C/T | <i>IKZF3</i>   | 17:37933933 | White | UCEC | NA           | 0.246 | . |
| 17:37985726-A/C | <i>IKZF3</i>   | 17:37985726 | White | COAD | NA           | 0.125 | . |
| 17:37985726-A/C | <i>IKZF3</i>   | 17:37985726 | Asian | COAD | NA           | 0.125 | . |
| 17:40725136-T/G | <i>PSMC3IP</i> | 17:40725136 | White | THCA | rs374511642  | 0.369 | . |

|                 |                |             |       |      |             |       |                                     |
|-----------------|----------------|-------------|-------|------|-------------|-------|-------------------------------------|
| 17:40725136-T/G | <i>PSMC3IP</i> | 17:40725136 | AA/B  | THCA | rs374511642 | 0.369 | .                                   |
| 17:41234570-T/C | <i>BRCA1</i>   | 17:41234570 | Asian | UCEC | NA          | 0.407 | .                                   |
| 17:41234570-T/C | <i>BRCA1</i>   | 17:41234570 | Asian | UCEC | NA          | 0.059 | .                                   |
| 17:41243034-C/A | <i>BRCA1</i>   | 17:41243034 | White | LUAD | rs80357935  | 0.275 | .                                   |
| 17:41243034-C/A | <i>BRCA1</i>   | 17:41243034 | White | LUAD | rs80357935  | 0.556 | .                                   |
| 17:41243034-C/A | <i>BRCA1</i>   | 17:41243034 | AA/B  | LUAD | rs80357935  | 0.275 | .                                   |
| 17:41243034-C/A | <i>BRCA1</i>   | 17:41243034 | AA/B  | LUAD | rs80357935  | 0.556 | .                                   |
| 17:41243518-C/G | <i>BRCA1</i>   | 17:41243518 | Asian | BRCA | NA          | 0.026 | .                                   |
| 17:41243518-C/G | <i>BRCA1</i>   | 17:41243518 | Asian | BRCA | NA          | 0.541 | .                                   |
| 17:41243518-C/G | <i>BRCA1</i>   | 17:41243518 | White | BRCA | NA          | 0.026 | .                                   |
| 17:41243518-C/G | <i>BRCA1</i>   | 17:41243518 | White | BRCA | NA          | 0.541 | .                                   |
| 17:41245429-C/G | <i>BRCA1</i>   | 17:41245429 | White | LUAD | NA          | 0.437 | uncertain_significance              |
| 17:41245429-C/G | <i>BRCA1</i>   | 17:41245429 | AA/B  | LUAD | NA          | 0.437 | uncertain_significance              |
| 17:41246648-T/G | <i>BRCA1</i>   | 17:41246648 | Asian | UCEC | rs80356861  | 0.225 | uncertain_significance,not_provided |
| 17:41246648-T/G | <i>BRCA1</i>   | 17:41246648 | Asian | UCEC | rs80356861  | 0.745 | uncertain_significance,not_provided |
| 17:41247864-C/G | <i>BRCA1</i>   | 17:41247864 | White | COAD | NA          | 0.523 | .                                   |
| 17:41247864-C/G | <i>BRCA1</i>   | 17:41247864 | Asian | COAD | NA          | 0.523 | .                                   |

|                 |              |             |       |      |    |       |                                      |
|-----------------|--------------|-------------|-------|------|----|-------|--------------------------------------|
| 17:41247865-T/G | <i>BRCA1</i> | 17:41247865 | Asian | ESCA | NA | 0.57  | not_provided,not_provided,pathogenic |
| 17:41247865-T/G | <i>BRCA1</i> | 17:41247865 | White | ESCA | NA | 0.57  | not_provided,not_provided,pathogenic |
| 17:41256900-C/G | <i>BRCA1</i> | 17:41256900 | White | BRCA | NA | 0.77  | uncertain_significance,not_provided  |
| 17:41256900-C/G | <i>BRCA1</i> | 17:41256900 | White | BRCA | NA | 0.456 | uncertain_significance,not_provided  |
| 17:41256900-C/G | <i>BRCA1</i> | 17:41256900 | AA/B  | BRCA | NA | 0.77  | uncertain_significance,not_provided  |
| 17:41256900-C/G | <i>BRCA1</i> | 17:41256900 | AA/B  | BRCA | NA | 0.456 | uncertain_significance,not_provided  |
| 17:41256939-C/A | <i>BRCA1</i> | 17:41256939 | AA/B  | BRCA | NA | 0.715 | .                                    |
| 17:41256939-C/A | <i>BRCA1</i> | 17:41256939 | White | BRCA | NA | 0.715 | .                                    |
| 17:41256946-A/C | <i>BRCA1</i> | 17:41256946 | White | UCEC | NA | 0.639 | .                                    |
| 17:48452847-T/G | <i>EME1</i>  | 17:48452847 | White | UCEC | NA | 0.114 | .                                    |
| 17:48453138-C/A | <i>EME1</i>  | 17:48453138 | Asian | UCEC | NA | 0.078 | .                                    |

|                 |               |             |       |      |             |       |                        |
|-----------------|---------------|-------------|-------|------|-------------|-------|------------------------|
| 17:48453138-C/A | <i>EME1</i>   | 17:48453138 | Asian | UCEC | NA          | 0.024 | .                      |
| 17:48457845-C/T | <i>EME1</i>   | 17:48457845 | White | COAD | NA          | 0.785 | .                      |
| 17:48457845-C/T | <i>EME1</i>   | 17:48457845 | White | COAD | NA          | 0.485 | .                      |
| 17:48457845-C/T | <i>EME1</i>   | 17:48457845 | AA/B  | COAD | NA          | 0.785 | .                      |
| 17:48457845-C/T | <i>EME1</i>   | 17:48457845 | AA/B  | COAD | NA          | 0.485 | .                      |
| 17:48458215-G/A | <i>EME1</i>   | 17:48458215 | White | UCEC | rs746533275 | 0.499 | .                      |
| 17:56772483-G/A | <i>RAD51C</i> | 17:56772483 | White | BRCA | NA          | 0.796 | .                      |
| 17:56772483-G/A | <i>RAD51C</i> | 17:56772483 | Asian | BRCA | NA          | 0.796 | .                      |
| 17:56774116-T/C | <i>RAD51C</i> | 17:56774116 | Asian | COAD | NA          | 0.325 | .                      |
| 17:56774116-T/C | <i>RAD51C</i> | 17:56774116 | White | COAD | NA          | 0.325 | .                      |
| 17:56787293-G/A | <i>RAD51C</i> | 17:56787293 | White | UCEC | rs730881926 | 0.208 | uncertain_significance |
| 17:59821926-C/G | <i>BRIP1</i>  | 17:59821926 | AA/B  | LUAD | NA          | 0.796 | .                      |
| 17:59821926-C/G | <i>BRIP1</i>  | 17:59821926 | White | LUAD | NA          | 0.796 | .                      |
| 17:59853777-G/C | <i>BRIP1</i>  | 17:59853777 | AA/B  | LUAD | NA          | 0.805 | .                      |
| 17:59853777-G/C | <i>BRIP1</i>  | 17:59853777 | White | LUAD | NA          | 0.805 | .                      |
| 17:59853839-C/A | <i>BRIP1</i>  | 17:59853839 | White | KIRC | NA          | 0.592 | .                      |
| 17:59853839-C/A | <i>BRIP1</i>  | 17:59853839 | AA/B  | KIRC | NA          | 0.592 | .                      |
| 17:59857756-A/G | <i>BRIP1</i>  | 17:59857756 | Asian | UCEC | NA          | 0.235 | .                      |
| 17:59861772-G/A | <i>BRIP1</i>  | 17:59861772 | White | COAD | NA          | 0.356 | .                      |
| 17:59878681-A/G | <i>BRIP1</i>  | 17:59878681 | White | STAD | NA          | 0.86  | .                      |
| 17:59878681-A/G | <i>BRIP1</i>  | 17:59878681 | Asian | STAD | NA          | 0.86  | .                      |
| 17:59878801-T/G | <i>BRIP1</i>  | 17:59878801 | White | UCEC | NA          | 0.571 | .                      |

|                 |               |             |       |      |             |       |   |
|-----------------|---------------|-------------|-------|------|-------------|-------|---|
| 17:73627235-G/A | <i>RECQL5</i> | 17:73627235 | White | UCEC | rs375117491 | 0.703 | . |
| 17:73658753-C/T | <i>RECQL5</i> | 17:73658753 | White | COAD | NA          | 0.614 | . |
| 17:73658753-C/T | <i>RECQL5</i> | 17:73658753 | Asian | COAD | NA          | 0.614 | . |
| 17:73658785-C/T | <i>RECQL5</i> | 17:73658785 | AA/B  | COAD | rs369553617 | 0.251 | . |
| 17:73658785-C/T | <i>RECQL5</i> | 17:73658785 | White | COAD | rs369553617 | 0.251 | . |
| 17:73658807-G/A | <i>RECQL5</i> | 17:73658807 | White | UCEC | rs972145896 | 0.286 | . |
| 17:7574002-C/G  | <i>TP53</i>   | 17:7574002  | Asian | BRCA | NA          | 0.65  | . |
| 17:7574002-C/G  | <i>TP53</i>   | 17:7574002  | White | BRCA | NA          | 0.65  | . |
| 17:7574002-C/G  | <i>TP53</i>   | 17:7574002  | AA/B  | BRCA | NA          | 0.65  | . |
| 17:7574002-C/G  | <i>TP53</i>   | 17:7574002  | Asian | UCEC | NA          | 0.65  | . |
| 17:7574017-C/G  | <i>TP53</i>   | 17:7574017  | White | LUAD | NA          | 0.792 | . |
| 17:7574017-C/G  | <i>TP53</i>   | 17:7574017  | AA/B  | LUAD | NA          | 0.792 | . |
| 17:7576889-C/G  | <i>TP53</i>   | 17:7576889  | White | CESC | NA          | 0.215 | . |
| 17:7576889-C/G  | <i>TP53</i>   | 17:7576889  | White | CESC | NA          | 0.839 | . |
| 17:7576889-C/G  | <i>TP53</i>   | 17:7576889  | AA/B  | CESC | NA          | 0.215 | . |
| 17:7576889-C/G  | <i>TP53</i>   | 17:7576889  | AA/B  | CESC | NA          | 0.839 | . |
| 17:7577081-T/C  | <i>TP53</i>   | 17:7577081  | White | OV   | NA          | 0.913 | . |
| 17:7577081-T/C  | <i>TP53</i>   | 17:7577081  | AA/B  | OV   | NA          | 0.913 | . |
| 17:7577082-C/G  | <i>TP53</i>   | 17:7577082  | AA/B  | LUAD | NA          | 0.905 | . |
| 17:7577082-C/G  | <i>TP53</i>   | 17:7577082  | White | LUAD | NA          | 0.905 | . |
| 17:7577082-C/T  | <i>TP53</i>   | 17:7577082  | White | BRCA | NA          | 0.949 | . |
| 17:7577082-C/T  | <i>TP53</i>   | 17:7577082  | AA/B  | BRCA | NA          | 0.949 | . |
| 17:7577082-C/T  | <i>TP53</i>   | 17:7577082  | AA/B  | STAD | NA          | 0.949 | . |

|                |             |            |       |      |             |       |                           |
|----------------|-------------|------------|-------|------|-------------|-------|---------------------------|
| 17:7577082-C/T | <i>TP53</i> | 17:7577082 | AA/B  | SARC | NA          | 0.949 | .                         |
| 17:7577082-C/T | <i>TP53</i> | 17:7577082 | White | LUAD | NA          | 0.949 | .                         |
| 17:7577082-C/T | <i>TP53</i> | 17:7577082 | AA/B  | LUAD | NA          | 0.949 | .                         |
| 17:7577082-C/T | <i>TP53</i> | 17:7577082 | White | SARC | NA          | 0.949 | .                         |
| 17:7577084-T/A | <i>TP53</i> | 17:7577084 | Asian | ESCA | rs121912667 | 0.936 | pathogenic                |
| 17:7577084-T/A | <i>TP53</i> | 17:7577084 | White | ESCA | rs121912667 | 0.936 | pathogenic                |
| 17:7577085-C/T | <i>TP53</i> | 17:7577085 | Asian | BLCA | NA          | 0.91  | .                         |
| 17:7577085-C/T | <i>TP53</i> | 17:7577085 | White | BLCA | NA          | 0.91  | .                         |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | OV   | rs28934574  | 0.896 | likely_benign, pathogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | Asian | STAD | rs28934574  | 0.896 | likely_benign, pathogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | UCEC | rs28934574  | 0.896 | likely_benign, pathogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | Asian | BLCA | rs28934574  | 0.896 | likely_benign, pathogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | AA/B  | HNSC | rs28934574  | 0.896 | likely_benign, pathogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | STAD | rs28934574  | 0.896 | likely_benign, pathogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | AA/B  | BRCA | rs28934574  | 0.896 | likely_benign, pathogenic |

|                |             |            |       |      |            |       |                              |
|----------------|-------------|------------|-------|------|------------|-------|------------------------------|
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | AA/B  | STAD | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | ESCA | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | AA/B  | LUSC | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | BLCA | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | LUSC | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | Asian | ESCA | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | HNSC | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | AA/B  | OV   | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | Asian | HNSC | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577094-G/A | <i>TP53</i> | 17:7577094 | White | BRCA | rs28934574 | 0.896 | likely_benign,pat<br>hogenic |
| 17:7577097-C/A | <i>TP53</i> | 17:7577097 | White | LUAD | NA         | 0.957 | .                            |
| 17:7577097-C/A | <i>TP53</i> | 17:7577097 | AA/B  | LUAD | NA         | 0.957 | .                            |

|                |             |            |       |      |    |       |                                   |
|----------------|-------------|------------|-------|------|----|-------|-----------------------------------|
| 17:7577099-C/T | <i>TP53</i> | 17:7577099 | AA/B  | BLCA | NA | 0.935 | uncertain_significance,pathogenic |
| 17:7577099-C/T | <i>TP53</i> | 17:7577099 | AA/B  | CESC | NA | 0.935 | uncertain_significance,pathogenic |
| 17:7577099-C/T | <i>TP53</i> | 17:7577099 | AA/B  | BRCA | NA | 0.935 | uncertain_significance,pathogenic |
| 17:7577099-C/T | <i>TP53</i> | 17:7577099 | White | CESC | NA | 0.935 | uncertain_significance,pathogenic |
| 17:7577099-C/T | <i>TP53</i> | 17:7577099 | White | BLCA | NA | 0.935 | uncertain_significance,pathogenic |
| 17:7577100-T/C | <i>TP53</i> | 17:7577100 | AA/B  | HNSC | NA | 0.924 | .                                 |
| 17:7577100-T/C | <i>TP53</i> | 17:7577100 | White | HNSC | NA | 0.924 | .                                 |
| 17:7577102-C/T | <i>TP53</i> | 17:7577102 | AA/B  | LUSC | NA | 0.907 | .                                 |
| 17:7577102-C/T | <i>TP53</i> | 17:7577102 | White | LUSC | NA | 0.907 | .                                 |
| 17:7577106-G/A | <i>TP53</i> | 17:7577106 | White | LUSC | NA | 0.963 | .                                 |
| 17:7577106-G/A | <i>TP53</i> | 17:7577106 | AA/B  | LUSC | NA | 0.963 | .                                 |
| 17:7577106-G/A | <i>TP53</i> | 17:7577106 | AA/B  | HNSC | NA | 0.963 | .                                 |
| 17:7577106-G/A | <i>TP53</i> | 17:7577106 | White | HNSC | NA | 0.963 | .                                 |
| 17:7577106-G/C | <i>TP53</i> | 17:7577106 | Asian | ESCA | NA | 0.958 | .                                 |
| 17:7577106-G/C | <i>TP53</i> | 17:7577106 | White | ESCA | NA | 0.958 | .                                 |
| 17:7577114-C/A | <i>TP53</i> | 17:7577114 | White | ESCA | NA | 0.981 | .                                 |
| 17:7577114-C/A | <i>TP53</i> | 17:7577114 | Asian | ESCA | NA | 0.981 | .                                 |
| 17:7577114-C/A | <i>TP53</i> | 17:7577114 | AA/B  | LGG  | NA | 0.981 | .                                 |

|                |             |            |       |      |             |       |                                   |
|----------------|-------------|------------|-------|------|-------------|-------|-----------------------------------|
| 17:7577114-C/A | <i>TP53</i> | 17:7577114 | White | LGG  | NA          | 0.981 | .                                 |
| 17:7577114-C/A | <i>TP53</i> | 17:7577114 | AA/B  | HNSC | NA          | 0.981 | .                                 |
| 17:7577114-C/A | <i>TP53</i> | 17:7577114 | White | HNSC | NA          | 0.981 | .                                 |
| 17:7577114-C/T | <i>TP53</i> | 17:7577114 | White | SARC | NA          | 0.972 | .                                 |
| 17:7577114-C/T | <i>TP53</i> | 17:7577114 | AA/B  | SARC | NA          | 0.972 | .                                 |
| 17:7577114-C/T | <i>TP53</i> | 17:7577114 | White | BRCA | NA          | 0.972 | .                                 |
| 17:7577114-C/T | <i>TP53</i> | 17:7577114 | AA/B  | LIHC | NA          | 0.972 | .                                 |
| 17:7577114-C/T | <i>TP53</i> | 17:7577114 | AA/B  | BRCA | NA          | 0.972 | .                                 |
| 17:7577120-C/A | <i>TP53</i> | 17:7577120 | White | OV   | rs28934576  | 0.921 | pathogenic                        |
| 17:7577120-C/A | <i>TP53</i> | 17:7577120 | White | BRCA | rs28934576  | 0.921 | pathogenic                        |
| 17:7577120-C/A | <i>TP53</i> | 17:7577120 | AA/B  | OV   | rs28934576  | 0.921 | pathogenic                        |
| 17:7577120-C/A | <i>TP53</i> | 17:7577120 | AA/B  | BRCA | rs28934576  | 0.921 | pathogenic                        |
| 17:7577120-C/A | <i>TP53</i> | 17:7577120 | White | LUSC | rs28934576  | 0.921 | pathogenic                        |
| 17:7577120-C/A | <i>TP53</i> | 17:7577120 | Asian | BRCA | rs28934576  | 0.921 | pathogenic                        |
| 17:7577120-C/A | <i>TP53</i> | 17:7577120 | AA/B  | LUSC | rs28934576  | 0.921 | pathogenic                        |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | White | BLCA | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | AA/B  | LGG  | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | AA/B  | STAD | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | White | BRCA | rs121913343 | 0.901 | uncertain_significance,pathogenic |

|                |             |            |       |      |             |       |                                   |
|----------------|-------------|------------|-------|------|-------------|-------|-----------------------------------|
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | White | COAD | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | White | HNSC | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | AA/B  | BLCA | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | AA/B  | COAD | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | White | LGG  | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | AA/B  | HNSC | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | Asian | STAD | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | Asian | HNSC | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | Asian | BLCA | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/A | <i>TP53</i> | 17:7577121 | White | STAD | rs121913343 | 0.901 | uncertain_significance,pathogenic |
| 17:7577121-G/C | <i>TP53</i> | 17:7577121 | AA/B  | LUAD | NA          | 0.902 | uncertain_significance,pathogenic |

|                |             |            |       |      |             |       |                                   |
|----------------|-------------|------------|-------|------|-------------|-------|-----------------------------------|
| 17:7577121-G/C | <i>TP53</i> | 17:7577121 | White | LUAD | NA          | 0.902 | uncertain_significance,pathogenic |
| 17:7577121-G/T | <i>TP53</i> | 17:7577121 | White | UCEC | rs121913343 | 0.906 | uncertain_significance,pathogenic |
| 17:7577124-C/A | <i>TP53</i> | 17:7577124 | White | CESC | NA          | 0.878 | uncertain_significance,pathogenic |
| 17:7577124-C/A | <i>TP53</i> | 17:7577124 | AA/B  | CESC | NA          | 0.878 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | AA/B  | OV   | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | Asian | ESCA | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | Asian | STAD | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | AA/B  | BRCA | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | White | BRCA | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | White | OV   | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | AA/B  | LUAD | rs121912657 | 0.907 | uncertain_significance,pathogenic |

|                |             |            |       |      |             |       |                                   |
|----------------|-------------|------------|-------|------|-------------|-------|-----------------------------------|
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | White | STAD | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | White | LUAD | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | White | ESCA | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577124-C/T | <i>TP53</i> | 17:7577124 | AA/B  | STAD | rs121912657 | 0.907 | uncertain_significance,pathogenic |
| 17:7577127-C/T | <i>TP53</i> | 17:7577127 | White | LUSC | NA          | 0.935 | .                                 |
| 17:7577127-C/T | <i>TP53</i> | 17:7577127 | AA/B  | LUSC | NA          | 0.935 | .                                 |
| 17:7577130-A/G | <i>TP53</i> | 17:7577130 | Asian | STAD | NA          | 0.935 | .                                 |
| 17:7577130-A/G | <i>TP53</i> | 17:7577130 | White | STAD | NA          | 0.935 | .                                 |
| 17:7577141-C/A | <i>TP53</i> | 17:7577141 | White | LUAD | rs193920774 | 0.974 | uncertain_significance            |
| 17:7577141-C/A | <i>TP53</i> | 17:7577141 | AA/B  | LUAD | rs193920774 | 0.974 | uncertain_significance            |
| 17:7577141-C/T | <i>TP53</i> | 17:7577141 | White | OV   | NA          | 0.973 | uncertain_significance            |
| 17:7577141-C/T | <i>TP53</i> | 17:7577141 | White | HNSC | NA          | 0.973 | uncertain_significance            |
| 17:7577141-C/T | <i>TP53</i> | 17:7577141 | Asian | BRCA | NA          | 0.973 | uncertain_significance            |

|                |             |            |       |      |    |       |                               |
|----------------|-------------|------------|-------|------|----|-------|-------------------------------|
| 17:7577141-C/T | <i>TP53</i> | 17:7577141 | AA/B  | OV   | NA | 0.973 | uncertain_significance        |
| 17:7577141-C/T | <i>TP53</i> | 17:7577141 | AA/B  | HNSC | NA | 0.973 | uncertain_significance        |
| 17:7577142-C/T | <i>TP53</i> | 17:7577142 | AA/B  | LIHC | NA | 0.963 | .                             |
| 17:7577144-A/G | <i>TP53</i> | 17:7577144 | White | STAD | NA | 0.948 | .                             |
| 17:7577505-T/A | <i>TP53</i> | 17:7577505 | Asian | PAAD | NA | 0.742 | uncertain_significance        |
| 17:7577505-T/A | <i>TP53</i> | 17:7577505 | White | COAD | NA | 0.742 | uncertain_significance        |
| 17:7577505-T/A | <i>TP53</i> | 17:7577505 | White | PAAD | NA | 0.742 | uncertain_significance        |
| 17:7577505-T/A | <i>TP53</i> | 17:7577505 | AA/B  | COAD | NA | 0.742 | uncertain_significance        |
| 17:7577509-C/G | <i>TP53</i> | 17:7577509 | White | LUAD | NA | 0.936 | pathogenic                    |
| 17:7577509-C/G | <i>TP53</i> | 17:7577509 | AA/B  | LUAD | NA | 0.936 | pathogenic                    |
| 17:7577511-A/C | <i>TP53</i> | 17:7577511 | AA/B  | BRCA | NA | 0.922 | likely_pathogenic, pathogenic |
| 17:7577511-A/C | <i>TP53</i> | 17:7577511 | White | BRCA | NA | 0.922 | likely_pathogenic, pathogenic |
| 17:7577532-G/A | <i>TP53</i> | 17:7577532 | White | BRCA | NA | 0.962 | .                             |
| 17:7577532-G/A | <i>TP53</i> | 17:7577532 | AA/B  | BRCA | NA | 0.962 | .                             |
| 17:7577534-C/A | <i>TP53</i> | 17:7577534 | AA/B  | LIHC | NA | 0.769 | pathogenic                    |

|                |             |            |       |      |             |       |            |
|----------------|-------------|------------|-------|------|-------------|-------|------------|
| 17:7577534-C/A | <i>TP53</i> | 17:7577534 | White | LUSC | NA          | 0.769 | pathogenic |
| 17:7577534-C/A | <i>TP53</i> | 17:7577534 | AA/B  | LUSC | NA          | 0.769 | pathogenic |
| 17:7577534-C/A | <i>TP53</i> | 17:7577534 | Asian | LIHC | NA          | 0.769 | pathogenic |
| 17:7577534-C/A | <i>TP53</i> | 17:7577534 | White | LIHC | NA          | 0.769 | pathogenic |
| 17:7577534-C/G | <i>TP53</i> | 17:7577534 | AA/B  | LUSC | NA          | 0.769 | pathogenic |
| 17:7577534-C/G | <i>TP53</i> | 17:7577534 | White | LUSC | NA          | 0.769 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | Asian | LIHC | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | White | BLCA | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | AA/B  | HNSC | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | Asian | ESCA | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | White | ESCA | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | White | STAD | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | Asian | HNSC | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | AA/B  | BRCA | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | White | LIHC | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | Asian | BLCA | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | AA/B  | STAD | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | White | HNSC | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | White | BRCA | rs11540652  | 0.934 | pathogenic |
| 17:7577538-C/T | <i>TP53</i> | 17:7577538 | Asian | STAD | rs11540652  | 0.934 | pathogenic |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | White | COAD | rs121912651 | 0.927 | pathogenic |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | Asian | PAAD | rs121912651 | 0.927 | pathogenic |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | AA/B  | HNSC | rs121912651 | 0.927 | pathogenic |

|                |             |            |       |      |             |       |                                  |
|----------------|-------------|------------|-------|------|-------------|-------|----------------------------------|
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | Asian | ESCA | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | White | LUAD | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | Asian | BRCA | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | White | ESCA | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | White | PAAD | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | White | HNSC | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | Asian | HNSC | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | AA/B  | LUAD | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | AA/B  | STAD | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | White | UCEC | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | White | STAD | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | AA/B  | COAD | rs121912651 | 0.927 | pathogenic                       |
| 17:7577539-G/A | <i>TP53</i> | 17:7577539 | AA/B  | BLCA | rs121912651 | 0.927 | pathogenic                       |
| 17:7577547-C/A | <i>TP53</i> | 17:7577547 | AA/B  | HNSC | rs121912656 | 0.972 | pathogenic                       |
| 17:7577547-C/A | <i>TP53</i> | 17:7577547 | Asian | ESCA | rs121912656 | 0.972 | pathogenic                       |
| 17:7577547-C/A | <i>TP53</i> | 17:7577547 | White | HNSC | rs121912656 | 0.972 | pathogenic                       |
| 17:7577547-C/A | <i>TP53</i> | 17:7577547 | White | ESCA | rs121912656 | 0.972 | pathogenic                       |
| 17:7577547-C/T | <i>TP53</i> | 17:7577547 | AA/B  | OV   | rs121912656 | 0.974 | pathogenic                       |
| 17:7577547-C/T | <i>TP53</i> | 17:7577547 | White | OV   | rs121912656 | 0.974 | pathogenic                       |
| 17:7577548-C/G | <i>TP53</i> | 17:7577548 | AA/B  | LUSC | rs28934575  | 0.961 | likely_pathogeni<br>c,pathogenic |
| 17:7577548-C/G | <i>TP53</i> | 17:7577548 | White | LUSC | rs28934575  | 0.961 | likely_pathogeni<br>c,pathogenic |

|                |             |            |       |      |             |       |                               |
|----------------|-------------|------------|-------|------|-------------|-------|-------------------------------|
| 17:7577548-C/T | <i>TP53</i> | 17:7577548 | Asian | HNSC | rs28934575  | 0.947 | likely_pathogenic, pathogenic |
| 17:7577548-C/T | <i>TP53</i> | 17:7577548 | AA/B  | STAD | rs28934575  | 0.947 | likely_pathogenic, pathogenic |
| 17:7577548-C/T | <i>TP53</i> | 17:7577548 | AA/B  | HNSC | rs28934575  | 0.947 | likely_pathogenic, pathogenic |
| 17:7577548-C/T | <i>TP53</i> | 17:7577548 | White | HNSC | rs28934575  | 0.947 | likely_pathogenic, pathogenic |
| 17:7577550-C/T | <i>TP53</i> | 17:7577550 | White | LUSC | NA          | 0.953 | .                             |
| 17:7577550-C/T | <i>TP53</i> | 17:7577550 | AA/B  | LUSC | NA          | 0.953 | .                             |
| 17:7577551-C/A | <i>TP53</i> | 17:7577551 | White | STAD | NA          | 0.94  | .                             |
| 17:7577551-C/A | <i>TP53</i> | 17:7577551 | Asian | STAD | NA          | 0.94  | .                             |
| 17:7577551-C/T | <i>TP53</i> | 17:7577551 | White | UCEC | NA          | 0.936 | .                             |
| 17:7577556-C/A | <i>TP53</i> | 17:7577556 | AA/B  | LUSC | NA          | 0.977 | pathogenic                    |
| 17:7577556-C/A | <i>TP53</i> | 17:7577556 | AA/B  | LUAD | NA          | 0.977 | pathogenic                    |
| 17:7577556-C/A | <i>TP53</i> | 17:7577556 | White | LUAD | NA          | 0.977 | pathogenic                    |
| 17:7577556-C/A | <i>TP53</i> | 17:7577556 | White | LUSC | NA          | 0.977 | pathogenic                    |
| 17:7577556-C/T | <i>TP53</i> | 17:7577556 | White | STAD | rs121912655 | 0.973 | pathogenic                    |
| 17:7577556-C/T | <i>TP53</i> | 17:7577556 | Asian | STAD | rs121912655 | 0.973 | pathogenic                    |
| 17:7577557-A/C | <i>TP53</i> | 17:7577557 | White | BRCA | NA          | 0.963 | .                             |
| 17:7577557-A/C | <i>TP53</i> | 17:7577557 | AA/B  | BRCA | NA          | 0.963 | .                             |
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | White | CESC | rs28934573  | 0.958 | likely_pathogenic, pathogenic |

|                |             |            |       |      |            |       |                   |
|----------------|-------------|------------|-------|------|------------|-------|-------------------|
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | White | BRCA | rs28934573 | 0.958 | likely_pathogenic |
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | White | UCEC | rs28934573 | 0.958 | likely_pathogenic |
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | AA/B  | CESC | rs28934573 | 0.958 | likely_pathogenic |
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | Asian | BRCA | rs28934573 | 0.958 | likely_pathogenic |
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | Asian | BLCA | rs28934573 | 0.958 | likely_pathogenic |
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | White | BLCA | rs28934573 | 0.958 | likely_pathogenic |
| 17:7577559-G/A | <i>TP53</i> | 17:7577559 | AA/B  | BLCA | rs28934573 | 0.958 | likely_pathogenic |
| 17:7577559-G/C | <i>TP53</i> | 17:7577559 | White | UCEC | rs28934573 | 0.952 | likely_pathogenic |
| 17:7577568-C/A | <i>TP53</i> | 17:7577568 | White | CESC | NA         | 0.958 | likely_pathogenic |
| 17:7577568-C/A | <i>TP53</i> | 17:7577568 | AA/B  | HNSC | NA         | 0.958 | likely_pathogenic |
| 17:7577568-C/A | <i>TP53</i> | 17:7577568 | White | LUSC | NA         | 0.958 | likely_pathogenic |

|                |             |            |       |      |             |       |                       |
|----------------|-------------|------------|-------|------|-------------|-------|-----------------------|
| 17:7577568-C/A | <i>TP53</i> | 17:7577568 | Asian | BRCA | NA          | 0.958 | likely_pathogeni<br>c |
| 17:7577568-C/A | <i>TP53</i> | 17:7577568 | AA/B  | LUSC | NA          | 0.958 | likely_pathogeni<br>c |
| 17:7577570-C/A | <i>TP53</i> | 17:7577570 | White | LUSC | NA          | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/A | <i>TP53</i> | 17:7577570 | AA/B  | LUSC | NA          | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | White | BRCA | rs587782664 | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | AA/B  | LUAD | rs587782664 | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | White | STAD | rs587782664 | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | AA/B  | STAD | rs587782664 | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | White | LUAD | rs587782664 | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | AA/B  | BRCA | rs587782664 | 0.923 | likely_pathogeni<br>c |
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | White | LGG  | rs587782664 | 0.923 | likely_pathogeni<br>c |

|                |             |            |       |      |             |       |                            |
|----------------|-------------|------------|-------|------|-------------|-------|----------------------------|
| 17:7577570-C/T | <i>TP53</i> | 17:7577570 | AA/B  | LGG  | rs587782664 | 0.923 | likely_pathogeni<br>c      |
| 17:7577574-T/C | <i>TP53</i> | 17:7577574 | Asian | HNSC | NA          | 0.811 | uncertain_signifi<br>cance |
| 17:7577575-A/G | <i>TP53</i> | 17:7577575 | White | COAD | NA          | 0.772 | pathogenic                 |
| 17:7577575-A/G | <i>TP53</i> | 17:7577575 | AA/B  | COAD | NA          | 0.772 | pathogenic                 |
| 17:7577580-T/C | <i>TP53</i> | 17:7577580 | AA/B  | LUSC | rs587780073 | 0.945 | pathogenic                 |
| 17:7577580-T/C | <i>TP53</i> | 17:7577580 | AA/B  | OV   | rs587780073 | 0.945 | pathogenic                 |
| 17:7577580-T/C | <i>TP53</i> | 17:7577580 | White | HNSC | rs587780073 | 0.945 | pathogenic                 |
| 17:7577580-T/C | <i>TP53</i> | 17:7577580 | White | OV   | rs587780073 | 0.945 | pathogenic                 |
| 17:7577580-T/C | <i>TP53</i> | 17:7577580 | White | LUSC | rs587780073 | 0.945 | pathogenic                 |
| 17:7577586-A/C | <i>TP53</i> | 17:7577586 | Asian | BRCA | NA          | 0.935 | likely_pathogeni<br>c      |
| 17:7577586-A/C | <i>TP53</i> | 17:7577586 | White | BRCA | NA          | 0.935 | likely_pathogeni<br>c      |
| 17:7577586-A/G | <i>TP53</i> | 17:7577586 | Asian | UCEC | NA          | 0.92  | likely_pathogeni<br>c      |
| 17:7577587-T/A | <i>TP53</i> | 17:7577587 | White | LUAD | NA          | 0.84  | .                          |
| 17:7577587-T/A | <i>TP53</i> | 17:7577587 | AA/B  | LUAD | NA          | 0.84  | .                          |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | Asian | LIHC | rs121912666 | 0.936 | pathogenic                 |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | White | UCEC | rs121912666 | 0.936 | pathogenic                 |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | White | LUSC | rs121912666 | 0.936 | pathogenic                 |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | AA/B  | LUSC | rs121912666 | 0.936 | pathogenic                 |

|                |             |            |       |      |             |       |                          |
|----------------|-------------|------------|-------|------|-------------|-------|--------------------------|
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | White | BRCA | rs121912666 | 0.936 | pathogenic               |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | AA/B  | BRCA | rs121912666 | 0.936 | pathogenic               |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | White | LIHC | rs121912666 | 0.936 | pathogenic               |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | AA/B  | STAD | rs121912666 | 0.936 | pathogenic               |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | Asian | HNSC | rs121912666 | 0.936 | pathogenic               |
| 17:7578190-T/C | <i>TP53</i> | 17:7578190 | AA/B  | UCEC | rs121912666 | 0.936 | pathogenic               |
| 17:7578190-T/G | <i>TP53</i> | 17:7578190 | AA/B  | BRCA | NA          | 0.918 | pathogenic               |
| 17:7578191-A/C | <i>TP53</i> | 17:7578191 | Asian | ESCA | NA          | 0.934 | .                        |
| 17:7578191-A/C | <i>TP53</i> | 17:7578191 | White | ESCA | NA          | 0.934 | .                        |
| 17:7578191-A/G | <i>TP53</i> | 17:7578191 | AA/B  | BRCA | rs530941076 | 0.909 | .                        |
| 17:7578191-A/G | <i>TP53</i> | 17:7578191 | White | BRCA | rs530941076 | 0.909 | .                        |
| 17:7578205-C/A | <i>TP53</i> | 17:7578205 | AA/B  | BRCA | NA          | 0.913 | uncertain_significance   |
| 17:7578205-C/A | <i>TP53</i> | 17:7578205 | White | BRCA | NA          | 0.913 | uncertain_significance   |
| 17:7578208-T/C | <i>TP53</i> | 17:7578208 | AA/B  | LUSC | NA          | 0.885 | .                        |
| 17:7578208-T/C | <i>TP53</i> | 17:7578208 | White | LUAD | NA          | 0.885 | .                        |
| 17:7578208-T/C | <i>TP53</i> | 17:7578208 | AA/B  | LUAD | NA          | 0.885 | .                        |
| 17:7578208-T/C | <i>TP53</i> | 17:7578208 | White | LUSC | NA          | 0.885 | .                        |
| 17:7578211-C/T | <i>TP53</i> | 17:7578211 | White | COAD | rs587778720 | 0.92  | not_provided, pathogenic |
| 17:7578211-C/T | <i>TP53</i> | 17:7578211 | Asian | COAD | rs587778720 | 0.92  | not_provided, pathogenic |

|                |             |            |       |      |              |       |   |
|----------------|-------------|------------|-------|------|--------------|-------|---|
| 17:7578235-T/A | <i>TP53</i> | 17:7578235 | White | PAAD | NA           | 0.823 | . |
| 17:7578235-T/A | <i>TP53</i> | 17:7578235 | Asian | PAAD | NA           | 0.823 | . |
| 17:7578235-T/C | <i>TP53</i> | 17:7578235 | AA/B  | LUAD | NA           | 0.873 | . |
| 17:7578235-T/C | <i>TP53</i> | 17:7578235 | White | LUAD | NA           | 0.873 | . |
| 17:7578236-A/T | <i>TP53</i> | 17:7578236 | Asian | BRCA | NA           | 0.897 | . |
| 17:7578236-A/T | <i>TP53</i> | 17:7578236 | White | BRCA | NA           | 0.897 | . |
| 17:7578253-C/A | <i>TP53</i> | 17:7578253 | Asian | BRCA | NA           | 0.899 | . |
| 17:7578265-A/G | <i>TP53</i> | 17:7578265 | Asian | BRCA | rs760043106  | 0.851 | . |
| 17:7578265-A/T | <i>TP53</i> | 17:7578265 | White | STAD | NA           | 0.84  | . |
| 17:7578265-A/T | <i>TP53</i> | 17:7578265 | Asian | STAD | NA           | 0.84  | . |
| 17:7578266-T/A | <i>TP53</i> | 17:7578266 | Asian | ESCA | NA           | 0.904 | . |
| 17:7578266-T/A | <i>TP53</i> | 17:7578266 | White | LUAD | NA           | 0.904 | . |
| 17:7578266-T/A | <i>TP53</i> | 17:7578266 | White | ESCA | NA           | 0.904 | . |
| 17:7578266-T/A | <i>TP53</i> | 17:7578266 | AA/B  | LUAD | NA           | 0.904 | . |
| 17:7578268-A/C | <i>TP53</i> | 17:7578268 | AA/B  | BRCA | rs1057519998 | 0.933 | . |
| 17:7578268-A/C | <i>TP53</i> | 17:7578268 | White | BRCA | rs1057519998 | 0.933 | . |
| 17:7578268-A/G | <i>TP53</i> | 17:7578268 | Asian | BRCA | NA           | 0.937 | . |
| 17:7578268-A/G | <i>TP53</i> | 17:7578268 | White | BRCA | NA           | 0.937 | . |
| 17:7578271-T/A | <i>TP53</i> | 17:7578271 | Asian | HNSC | NA           | 0.864 | . |
| 17:7578271-T/C | <i>TP53</i> | 17:7578271 | Asian | BRCA | NA           | 0.884 | . |
| 17:7578271-T/G | <i>TP53</i> | 17:7578271 | White | LGG  | NA           | 0.87  | . |
| 17:7578271-T/G | <i>TP53</i> | 17:7578271 | AA/B  | LGG  | NA           | 0.87  | . |
| 17:7578272-G/A | <i>TP53</i> | 17:7578272 | Asian | BRCA | NA           | 0.887 | . |

|                |             |            |       |      |              |       |            |
|----------------|-------------|------------|-------|------|--------------|-------|------------|
| 17:7578272-G/A | <i>TP53</i> | 17:7578272 | AA/B  | OV   | NA           | 0.887 | .          |
| 17:7578272-G/A | <i>TP53</i> | 17:7578272 | White | OV   | NA           | 0.887 | .          |
| 17:7578393-A/T | <i>TP53</i> | 17:7578393 | AA/B  | LUAD | rs876660821  | 0.79  | .          |
| 17:7578393-A/T | <i>TP53</i> | 17:7578393 | White | LUAD | rs876660821  | 0.79  | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | White | UCEC | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | White | LGG  | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | AA/B  | LGG  | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | White | ESCA | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | AA/B  | STAD | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | AA/B  | BRCA | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | Asian | ESCA | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | AA/B  | UCEC | rs1057519991 | 0.935 | .          |
| 17:7578394-T/C | <i>TP53</i> | 17:7578394 | Asian | HNSC | rs1057519991 | 0.935 | .          |
| 17:7578395-G/A | <i>TP53</i> | 17:7578395 | White | BRCA | NA           | 0.948 | pathogenic |
| 17:7578395-G/A | <i>TP53</i> | 17:7578395 | Asian | BRCA | NA           | 0.948 | pathogenic |
| 17:7578403-C/A | <i>TP53</i> | 17:7578403 | White | HNSC | rs786202962  | 0.951 | .          |
| 17:7578403-C/A | <i>TP53</i> | 17:7578403 | AA/B  | HNSC | rs786202962  | 0.951 | .          |
| 17:7578403-C/T | <i>TP53</i> | 17:7578403 | White | ESCA | NA           | 0.949 | .          |
| 17:7578403-C/T | <i>TP53</i> | 17:7578403 | Asian | HNSC | NA           | 0.949 | .          |
| 17:7578403-C/T | <i>TP53</i> | 17:7578403 | Asian | ESCA | NA           | 0.949 | .          |
| 17:7578407-G/A | <i>TP53</i> | 17:7578407 | White | UCEC | rs138729528  | 0.833 | .          |
| 17:7578407-G/A | <i>TP53</i> | 17:7578407 | AA/B  | COAD | rs138729528  | 0.833 | .          |
| 17:7578410-T/A | <i>TP53</i> | 17:7578410 | Asian | ESCA | NA           | 0.634 | .          |

|                |             |            |       |      |    |       |            |
|----------------|-------------|------------|-------|------|----|-------|------------|
| 17:7578410-T/A | <i>TP53</i> | 17:7578410 | White | ESCA | NA | 0.634 | .          |
| 17:7578413-C/A | <i>TP53</i> | 17:7578413 | White | LUAD | NA | 0.88  | .          |
| 17:7578413-C/A | <i>TP53</i> | 17:7578413 | White | COAD | NA | 0.88  | .          |
| 17:7578413-C/A | <i>TP53</i> | 17:7578413 | AA/B  | LUAD | NA | 0.88  | .          |
| 17:7578413-C/A | <i>TP53</i> | 17:7578413 | AA/B  | LGG  | NA | 0.88  | .          |
| 17:7578413-C/A | <i>TP53</i> | 17:7578413 | AA/B  | COAD | NA | 0.88  | .          |
| 17:7578413-C/A | <i>TP53</i> | 17:7578413 | White | LGG  | NA | 0.88  | .          |
| 17:7578413-C/T | <i>TP53</i> | 17:7578413 | AA/B  | HNSC | NA | 0.892 | .          |
| 17:7578413-C/T | <i>TP53</i> | 17:7578413 | White | HNSC | NA | 0.892 | .          |
| 17:7578413-C/T | <i>TP53</i> | 17:7578413 | White | STAD | NA | 0.892 | .          |
| 17:7578427-T/C | <i>TP53</i> | 17:7578427 | Asian | ESCA | NA | 0.562 | .          |
| 17:7578427-T/C | <i>TP53</i> | 17:7578427 | White | ESCA | NA | 0.562 | .          |
| 17:7578427-T/G | <i>TP53</i> | 17:7578427 | Asian | BRCA | NA | 0.526 | .          |
| 17:7578427-T/G | <i>TP53</i> | 17:7578427 | White | BRCA | NA | 0.526 | .          |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | White | OV   | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | White | LUAD | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | AA/B  | HNSC | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | AA/B  | OV   | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | White | LUSC | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | AA/B  | BRCA | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | AA/B  | LUAD | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | AA/B  | LUSC | NA | 0.872 | pathogenic |
| 17:7578442-T/C | <i>TP53</i> | 17:7578442 | White | HNSC | NA | 0.872 | pathogenic |

|                |             |            |       |      |             |       |  |
|----------------|-------------|------------|-------|------|-------------|-------|--|
| 17:7578446-T/A | <i>TP53</i> | 17:7578446 | Asian | STAD | NA          | 0.676 | .  |
| 17:7578446-T/A | <i>TP53</i> | 17:7578446 | White | STAD | NA          | 0.676 | .  |
| 17:7578449-C/A | <i>TP53</i> | 17:7578449 | AA/B  | LIHC | NA          | 0.752 | uncertain_significance,likely_pathogenic |
| 17:7578449-C/T | <i>TP53</i> | 17:7578449 | White | COAD | NA          | 0.79  | uncertain_significance,likely_pathogenic |
| 17:7578449-C/T | <i>TP53</i> | 17:7578449 | AA/B  | COAD | NA          | 0.79  | uncertain_significance,likely_pathogenic |
| 17:7578454-G/A | <i>TP53</i> | 17:7578454 | White | LUSC | NA          | 0.774 | .  |
| 17:7578454-G/A | <i>TP53</i> | 17:7578454 | AA/B  | CESC | NA          | 0.774 | .  |
| 17:7578454-G/A | <i>TP53</i> | 17:7578454 | Asian | BLCA | NA          | 0.774 | .  |
| 17:7578454-G/A | <i>TP53</i> | 17:7578454 | AA/B  | LUSC | NA          | 0.774 | .  |
| 17:7578454-G/A | <i>TP53</i> | 17:7578454 | Asian | UCEC | NA          | 0.774 | .  |
| 17:7578454-G/A | <i>TP53</i> | 17:7578454 | White | CESC | NA          | 0.774 | .  |
| 17:7578455-C/G | <i>TP53</i> | 17:7578455 | White | LUAD | NA          | 0.815 | uncertain_significance                   |
| 17:7578455-C/G | <i>TP53</i> | 17:7578455 | AA/B  | LUAD | NA          | 0.815 | uncertain_significance                   |
| 17:7578457-C/A | <i>TP53</i> | 17:7578457 | Asian | ESCA | rs587782144 | 0.891 | pathogenic                               |
| 17:7578457-C/A | <i>TP53</i> | 17:7578457 | White | ESCA | rs587782144 | 0.891 | pathogenic                               |

|                |             |            |       |      |    |       |                                   |
|----------------|-------------|------------|-------|------|----|-------|-----------------------------------|
| 17:7578460-A/T | <i>TP53</i> | 17:7578460 | White | BRCA | NA | 0.863 | .                                 |
| 17:7578460-A/T | <i>TP53</i> | 17:7578460 | AA/B  | BRCA | NA | 0.863 | .                                 |
| 17:7578461-C/A | <i>TP53</i> | 17:7578461 | Asian | ESCA | NA | 0.708 | uncertain_significance,pathogenic |
| 17:7578461-C/A | <i>TP53</i> | 17:7578461 | White | ESCA | NA | 0.708 | uncertain_significance,pathogenic |
| 17:7578461-C/A | <i>TP53</i> | 17:7578461 | Asian | LIHC | NA | 0.708 | uncertain_significance,pathogenic |
| 17:7578461-C/A | <i>TP53</i> | 17:7578461 | Asian | HNSC | NA | 0.708 | uncertain_significance,pathogenic |
| 17:7578461-C/A | <i>TP53</i> | 17:7578461 | White | LIHC | NA | 0.708 | uncertain_significance,pathogenic |
| 17:7578461-C/A | <i>TP53</i> | 17:7578461 | AA/B  | HNSC | NA | 0.708 | uncertain_significance,pathogenic |
| 17:7578461-C/A | <i>TP53</i> | 17:7578461 | White | HNSC | NA | 0.708 | uncertain_significance,pathogenic |
| 17:7578467-T/G | <i>TP53</i> | 17:7578467 | White | LUSC | NA | 0.581 | .                                 |
| 17:7578467-T/G | <i>TP53</i> | 17:7578467 | AA/B  | LUSC | NA | 0.581 | .                                 |
| 17:7578469-C/A | <i>TP53</i> | 17:7578469 | White | LUSC | NA | 0.754 | .                                 |
| 17:7578469-C/A | <i>TP53</i> | 17:7578469 | AA/B  | LUSC | NA | 0.754 | .                                 |
| 17:7578475-G/T | <i>TP53</i> | 17:7578475 | White | LUSC | NA | 0.843 | pathogenic                        |
| 17:7578475-G/T | <i>TP53</i> | 17:7578475 | AA/B  | LUSC | NA | 0.843 | pathogenic                        |
| 17:7578478-G/C | <i>TP53</i> | 17:7578478 | White | PAAD | NA | 0.912 | .                                 |

|                |             |            |       |      |    |       |                               |
|----------------|-------------|------------|-------|------|----|-------|-------------------------------|
| 17:7578478-G/C | <i>TP53</i> | 17:7578478 | Asian | PAAD | NA | 0.912 | .                             |
| 17:7578478-G/T | <i>TP53</i> | 17:7578478 | AA/B  | LIHC | NA | 0.87  | .                             |
| 17:7578479-G/A | <i>TP53</i> | 17:7578479 | White | UCEC | NA | 0.898 | likely_pathogenic, pathogenic |
| 17:7578479-G/A | <i>TP53</i> | 17:7578479 | White | HNSC | NA | 0.898 | likely_pathogenic, pathogenic |
| 17:7578479-G/T | <i>TP53</i> | 17:7578479 | AA/B  | STAD | NA | 0.911 | likely_pathogenic, pathogenic |
| 17:7578503-C/T | <i>TP53</i> | 17:7578503 | White | HNSC | NA | 0.659 | uncertain_significance        |
| 17:7578503-C/T | <i>TP53</i> | 17:7578503 | AA/B  | HNSC | NA | 0.659 | uncertain_significance        |
| 17:7578508-C/T | <i>TP53</i> | 17:7578508 | White | UCEC | NA | 0.897 | pathogenic                    |
| 17:7578509-A/G | <i>TP53</i> | 17:7578509 | Asian | BRCA | NA | 0.861 | .                             |
| 17:7578509-A/G | <i>TP53</i> | 17:7578509 | White | BRCA | NA | 0.861 | .                             |
| 17:7578523-T/G | <i>TP53</i> | 17:7578523 | White | BRCA | NA | 0.964 | .                             |
| 17:7578523-T/G | <i>TP53</i> | 17:7578523 | AA/B  | BRCA | NA | 0.964 | .                             |
| 17:7578526-C/A | <i>TP53</i> | 17:7578526 | Asian | ESCA | NA | 0.96  | uncertain_significance        |
| 17:7578526-C/A | <i>TP53</i> | 17:7578526 | AA/B  | BRCA | NA | 0.96  | uncertain_significance        |
| 17:7578526-C/A | <i>TP53</i> | 17:7578526 | White | ESCA | NA | 0.96  | uncertain_significance        |

|                |             |            |       |      |              |       |                        |
|----------------|-------------|------------|-------|------|--------------|-------|------------------------|
| 17:7578526-C/A | <i>TP53</i> | 17:7578526 | White | BRCA | NA           | 0.96  | uncertain_significance |
| 17:7578526-C/A | <i>TP53</i> | 17:7578526 | Asian | STAD | NA           | 0.96  | uncertain_significance |
| 17:7578526-C/A | <i>TP53</i> | 17:7578526 | White | STAD | NA           | 0.96  | uncertain_significance |
| 17:7578527-A/G | <i>TP53</i> | 17:7578527 | White | ESCA | NA           | 0.964 | .                      |
| 17:7578527-A/G | <i>TP53</i> | 17:7578527 | AA/B  | BRCA | NA           | 0.964 | .                      |
| 17:7578527-A/G | <i>TP53</i> | 17:7578527 | Asian | ESCA | NA           | 0.964 | .                      |
| 17:7578527-A/G | <i>TP53</i> | 17:7578527 | White | BRCA | NA           | 0.964 | .                      |
| 17:7578528-A/T | <i>TP53</i> | 17:7578528 | Asian | ESCA | NA           | 0.872 | .                      |
| 17:7578528-A/T | <i>TP53</i> | 17:7578528 | White | ESCA | NA           | 0.872 | .                      |
| 17:7578534-C/G | <i>TP53</i> | 17:7578534 | White | BLCA | NA           | 0.895 | .                      |
| 17:7578534-C/G | <i>TP53</i> | 17:7578534 | Asian | BLCA | NA           | 0.895 | .                      |
| 17:7578535-T/C | <i>TP53</i> | 17:7578535 | AA/B  | SARC | rs1057519996 | 0.908 | .                      |
| 17:7578535-T/C | <i>TP53</i> | 17:7578535 | White | SARC | rs1057519996 | 0.908 | .                      |
| 17:7578536-T/C | <i>TP53</i> | 17:7578536 | AA/B  | BRCA | rs747342068  | 0.968 | .                      |
| 17:7578538-T/A | <i>TP53</i> | 17:7578538 | Asian | PAAD | NA           | 0.939 | .                      |
| 17:7578538-T/A | <i>TP53</i> | 17:7578538 | AA/B  | LUSC | NA           | 0.939 | .                      |
| 17:7578538-T/A | <i>TP53</i> | 17:7578538 | White | PAAD | NA           | 0.939 | .                      |
| 17:7578538-T/A | <i>TP53</i> | 17:7578538 | White | LUSC | NA           | 0.939 | .                      |
| 17:7578542-G/C | <i>TP53</i> | 17:7578542 | Asian | STAD | NA           | 0.887 | .                      |
| 17:7578542-G/C | <i>TP53</i> | 17:7578542 | White | STAD | NA           | 0.887 | .                      |

|                |             |            |       |      |    |       |                       |
|----------------|-------------|------------|-------|------|----|-------|-----------------------|
| 17:7578550-G/A | <i>TP53</i> | 17:7578550 | Asian | COAD | NA | 0.925 | likely_pathogeni<br>c |
| 17:7578550-G/A | <i>TP53</i> | 17:7578550 | White | COAD | NA | 0.925 | likely_pathogeni<br>c |
| 17:7578550-G/A | <i>TP53</i> | 17:7578550 | AA/B  | LUAD | NA | 0.925 | likely_pathogeni<br>c |
| 17:7578550-G/A | <i>TP53</i> | 17:7578550 | White | LUAD | NA | 0.925 | likely_pathogeni<br>c |
| 17:7578550-G/C | <i>TP53</i> | 17:7578550 | White | LUAD | NA | 0.916 | likely_pathogeni<br>c |
| 17:7578550-G/C | <i>TP53</i> | 17:7578550 | AA/B  | LUAD | NA | 0.916 | likely_pathogeni<br>c |
| 17:7578550-G/T | <i>TP53</i> | 17:7578550 | AA/B  | BRCA | NA | 0.918 | likely_pathogeni<br>c |
| 17:7578550-G/T | <i>TP53</i> | 17:7578550 | White | BRCA | NA | 0.918 | likely_pathogeni<br>c |
| 17:7578551-A/T | <i>TP53</i> | 17:7578551 | White | COAD | NA | 0.924 | .                     |
| 17:7578551-A/T | <i>TP53</i> | 17:7578551 | AA/B  | COAD | NA | 0.924 | .                     |
| 17:7579313-G/A | <i>TP53</i> | 17:7579313 | Asian | STAD | NA | 0.925 | .                     |
| 17:7579313-G/A | <i>TP53</i> | 17:7579313 | White | STAD | NA | 0.925 | .                     |
| 17:7579329-T/C | <i>TP53</i> | 17:7579329 | AA/B  | LUAD | NA | 0.925 | pathogenic            |
| 17:7579329-T/C | <i>TP53</i> | 17:7579329 | White | LUAD | NA | 0.925 | pathogenic            |
| 17:7579349-A/C | <i>TP53</i> | 17:7579349 | AA/B  | BRCA | NA | 0.952 | .                     |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 17:7579355-A/G  | <i>TP53</i>  | 17:7579355  | AA/B  | BRCA | NA          | 0.864 | . |
| 17:7579355-A/T  | <i>TP53</i>  | 17:7579355  | White | STAD | NA          | 0.869 | . |
| 17:7579355-A/T  | <i>TP53</i>  | 17:7579355  | Asian | STAD | NA          | 0.869 | . |
| 17:7579358-C/A  | <i>TP53</i>  | 17:7579358  | Asian | HNSC | rs11540654  | 0.632 | . |
| 17:7579358-C/A  | <i>TP53</i>  | 17:7579358  | White | ESCA | rs11540654  | 0.632 | . |
| 17:7579358-C/A  | <i>TP53</i>  | 17:7579358  | Asian | ESCA | rs11540654  | 0.632 | . |
| 17:7579374-C/A  | <i>TP53</i>  | 17:7579374  | AA/B  | LUAD | NA          | 0.942 | . |
| 17:7579374-C/A  | <i>TP53</i>  | 17:7579374  | White | LUAD | NA          | 0.942 | . |
| 17:78397370-G/C | <i>ENDOV</i> | 17:78397370 | White | BRCA | NA          | 0.844 | . |
| 17:78397370-G/C | <i>ENDOV</i> | 17:78397370 | White | BRCA | NA          | 0.857 | . |
| 17:78397370-G/C | <i>ENDOV</i> | 17:78397370 | Asian | BRCA | NA          | 0.844 | . |
| 17:78397370-G/C | <i>ENDOV</i> | 17:78397370 | Asian | BRCA | NA          | 0.857 | . |
| 17:8045732-C/T  | <i>PER1</i>  | 17:8045732  | White | COAD | rs371070132 | 0.266 | . |
| 17:8045732-C/T  | <i>PER1</i>  | 17:8045732  | AA/B  | COAD | rs371070132 | 0.266 | . |
| 17:8046045-C/A  | <i>PER1</i>  | 17:8046045  | White | UCEC | NA          | 0.315 | . |
| 17:8046116-G/A  | <i>PER1</i>  | 17:8046116  | White | BRCA | NA          | 0.158 | . |
| 17:8046116-G/A  | <i>PER1</i>  | 17:8046116  | Asian | BRCA | NA          | 0.158 | . |
| 17:8050807-A/G  | <i>PER1</i>  | 17:8050807  | White | BRCA | NA          | 0.52  | . |
| 17:8050807-A/G  | <i>PER1</i>  | 17:8050807  | AA/B  | BRCA | NA          | 0.52  | . |
| 17:8051032-G/A  | <i>PER1</i>  | 17:8051032  | Asian | UCEC | rs771047267 | 0.428 | . |
| 17:8053432-G/A  | <i>PER1</i>  | 17:8053432  | Asian | BRCA | NA          | 0.264 | . |
| 17:8053432-G/A  | <i>PER1</i>  | 17:8053432  | White | BRCA | NA          | 0.264 | . |
| 18:13734563-G/T | <i>RNMT</i>  | 18:13734563 | White | STAD | NA          | 0.876 | . |

|                 |              |             |       |      |                     |       |   |
|-----------------|--------------|-------------|-------|------|---------------------|-------|---|
| 18:13737129-G/A | <i>RNMT</i>  | 18:13737129 | AA/B  | KIRC | NA                  | 0.687 | . |
| 18:13737129-G/A | <i>RNMT</i>  | 18:13737129 | White | KIRC | NA                  | 0.687 | . |
| 18:13741578-C/T | <i>RNMT</i>  | 18:13741578 | Asian | UCEC | NA                  | 0.957 | . |
| 18:19110356-C/T | <i>ESCO1</i> | 18:19110356 | White | UCEC | NA                  | 0.589 | . |
| 18:19110434-C/T | <i>ESCO1</i> | 18:19110434 | White | STAD | rs1319414766        | 0.89  | . |
| 18:19110434-C/T | <i>ESCO1</i> | 18:19110434 | Asian | STAD | rs1319414766        | 0.89  | . |
| 18:19112497-C/T | <i>ESCO1</i> | 18:19112497 | White | UCEC | 18:19112497_C/<br>T | 0.856 | . |
| 18:19116140-C/T | <i>ESCO1</i> | 18:19116140 | White | UCEC | NA                  | 0.507 | . |
| 18:19119885-T/G | <i>ESCO1</i> | 18:19119885 | White | COAD | NA                  | 0.328 | . |
| 18:19153336-T/G | <i>ESCO1</i> | 18:19153336 | White | COAD | NA                  | 0.092 | . |
| 18:19153339-A/T | <i>ESCO1</i> | 18:19153339 | White | STAD | NA                  | 0.166 | . |
| 18:19153339-A/T | <i>ESCO1</i> | 18:19153339 | Asian | STAD | NA                  | 0.166 | . |
| 18:19153612-T/G | <i>ESCO1</i> | 18:19153612 | Asian | UCEC | NA                  | 0.176 | . |
| 18:19153644-C/A | <i>ESCO1</i> | 18:19153644 | White | UCEC | NA                  | 0.14  | . |
| 18:19154028-C/A | <i>ESCO1</i> | 18:19154028 | Asian | UCEC | NA                  | 0.016 | . |
| 18:20548792-G/A | <i>RBBP8</i> | 18:20548792 | White | COAD | rs369500650         | 0.579 | . |
| 18:20572926-C/T | <i>RBBP8</i> | 18:20572926 | White | SARC | NA                  | 0.261 | . |
| 18:20572926-C/T | <i>RBBP8</i> | 18:20572926 | AA/B  | SARC | NA                  | 0.261 | . |
| 18:20573261-C/G | <i>RBBP8</i> | 18:20573261 | White | LUAD | rs561139689         | 0.223 | . |
| 18:20573261-C/G | <i>RBBP8</i> | 18:20573261 | AA/B  | LUAD | rs561139689         | 0.223 | . |
| 18:20576348-G/C | <i>RBBP8</i> | 18:20576348 | White | CESC | NA                  | 0.175 | . |
| 18:20577626-A/G | <i>RBBP8</i> | 18:20577626 | White | COAD | NA                  | 0.226 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 18:20577626-A/G | <i>RBBP8</i>  | 18:20577626 | AA/B  | COAD | NA           | 0.226 | . |
| 18:20602198-T/C | <i>RBBP8</i>  | 18:20602198 | AA/B  | CESC | NA           | 0.33  | . |
| 18:20602198-T/C | <i>RBBP8</i>  | 18:20602198 | White | CESC | NA           | 0.33  | . |
| 18:20606106-G/A | <i>RBBP8</i>  | 18:20606106 | White | UCEC | rs745335628  | 0.36  | . |
| 18:20606106-G/A | <i>RBBP8</i>  | 18:20606106 | White | UCEC | rs745335628  | 0.079 | . |
| 18:51809249-T/C | <i>POLI</i>   | 18:51809249 | White | COAD | NA           | 0.344 | . |
| 18:51809249-T/C | <i>POLI</i>   | 18:51809249 | Asian | COAD | NA           | 0.344 | . |
| 18:51813698-G/A | <i>POLI</i>   | 18:51813698 | White | UCEC | rs950431386  | 0.442 | . |
| 18:670835-A/G   | <i>TYMS</i>   | 18:670835   | Asian | COAD | NA           | 0.841 | . |
| 18:670835-A/G   | <i>TYMS</i>   | 18:670835   | White | COAD | NA           | 0.841 | . |
| 18:9550118-C/G  | <i>PPP4R1</i> | 18:9550118  | Asian | ESCA | NA           | 0.155 | . |
| 18:9550118-C/G  | <i>PPP4R1</i> | 18:9550118  | White | ESCA | NA           | 0.155 | . |
| 18:9577173-A/G  | <i>PPP4R1</i> | 18:9577173  | White | COAD | NA           | 0.668 | . |
| 19:13063545-G/A | <i>RAD23A</i> | 19:13063545 | White | UCEC | NA           | 0.276 | . |
| 19:17384941-G/A | <i>BABAMI</i> | 19:17384941 | White | COAD | NA           | 0.217 | . |
| 19:17384941-G/A | <i>BABAMI</i> | 19:17384941 | AA/B  | COAD | NA           | 0.217 | . |
| 19:17384974-C/T | <i>BABAMI</i> | 19:17384974 | White | UCEC | rs765161255  | 0.279 | . |
| 19:41510273-G/A | <i>CYP2B6</i> | 19:41510273 | White | STAD | rs774036855  | 0.686 | . |
| 19:41515957-C/T | <i>CYP2B6</i> | 19:41515957 | White | ESCA | rs1315971029 | 0.246 | . |
| 19:41515957-C/T | <i>CYP2B6</i> | 19:41515957 | Asian | ESCA | rs1315971029 | 0.246 | . |
| 19:41518311-G/T | <i>CYP2B6</i> | 19:41518311 | Asian | UCEC | NA           | 0.962 | . |
| 19:44047624-G/A | <i>XRCCI</i>  | 19:44047624 | Asian | UCEC | rs199876205  | 0.673 | . |
| 19:44055742-G/A | <i>XRCCI</i>  | 19:44055742 | Asian | BRCA | rs746331654  | 0.215 | . |

|                 |               |             |       |      |             |       |            |
|-----------------|---------------|-------------|-------|------|-------------|-------|------------|
| 19:44055742-G/A | <i>XRCC1</i>  | 19:44055742 | White | BRCA | rs746331654 | 0.215 | .          |
| 19:44056203-G/A | <i>XRCC1</i>  | 19:44056203 | White | UCEC | rs754041352 | 0.644 | .          |
| 19:44057634-G/T | <i>XRCC1</i>  | 19:44057634 | White | STAD | NA          | 0.103 | .          |
| 19:44057634-G/T | <i>XRCC1</i>  | 19:44057634 | Asian | STAD | NA          | 0.103 | .          |
| 19:44079569-G/T | <i>XRCC1</i>  | 19:44079569 | White | SARC | NA          | 0.377 | .          |
| 19:44079569-G/T | <i>XRCC1</i>  | 19:44079569 | AA/B  | SARC | NA          | 0.377 | .          |
| 19:4430593-C/A  | <i>CHAF1A</i> | 19:4430593  | Asian | UCEC | NA          | 0.385 | .          |
| 19:4432060-G/A  | <i>CHAF1A</i> | 19:4432060  | Asian | UCEC | NA          | 0.566 | .          |
| 19:4432190-G/T  | <i>CHAF1A</i> | 19:4432190  | White | COAD | NA          | 0.08  | .          |
| 19:4432190-G/T  | <i>CHAF1A</i> | 19:4432190  | AA/B  | COAD | NA          | 0.08  | .          |
| 19:4433108-G/A  | <i>CHAF1A</i> | 19:4433108  | White | COAD | rs761903668 | 0.389 | .          |
| 19:4433108-G/A  | <i>CHAF1A</i> | 19:4433108  | AA/B  | COAD | rs761903668 | 0.389 | .          |
| 19:4433137-G/T  | <i>CHAF1A</i> | 19:4433137  | AA/B  | LUAD | NA          | 0.25  | .          |
| 19:4433137-G/T  | <i>CHAF1A</i> | 19:4433137  | White | LUAD | NA          | 0.25  | .          |
| 19:45855493-G/A | <i>ERCC2</i>  | 19:45855493 | White | UCEC | rs121913026 | 0.795 | pathogenic |
| 19:45855888-C/T | <i>ERCC2</i>  | 19:45855888 | White | UCEC | rs747476170 | 0.775 | .          |
| 19:45855889-G/A | <i>ERCC2</i>  | 19:45855889 | White | COAD | rs769085031 | 0.787 | .          |
| 19:45856015-G/A | <i>ERCC2</i>  | 19:45856015 | White | STAD | rs144511865 | 0.808 | .          |
| 19:45856015-G/A | <i>ERCC2</i>  | 19:45856015 | Asian | STAD | rs144511865 | 0.808 | .          |
| 19:45858934-C/T | <i>ERCC2</i>  | 19:45858934 | White | COAD | rs772572683 | 0.907 | .          |
| 19:45858934-C/T | <i>ERCC2</i>  | 19:45858934 | AA/B  | COAD | rs772572683 | 0.907 | .          |
| 19:45860787-G/A | <i>ERCC2</i>  | 19:45860787 | White | ESCA | rs760834335 | 0.861 | .          |
| 19:45860787-G/A | <i>ERCC2</i>  | 19:45860787 | Asian | ESCA | rs760834335 | 0.861 | .          |

|                 |              |             |       |      |             |       |            |
|-----------------|--------------|-------------|-------|------|-------------|-------|------------|
| 19:45864875-G/T | <i>ERCC2</i> | 19:45864875 | Asian | STAD | NA          | 0.544 | .          |
| 19:45864875-G/T | <i>ERCC2</i> | 19:45864875 | White | STAD | NA          | 0.544 | .          |
| 19:45868140-C/A | <i>ERCC2</i> | 19:45868140 | White | KIRP | NA          | 0.819 | .          |
| 19:45868140-C/A | <i>ERCC2</i> | 19:45868140 | AA/B  | KIRP | NA          | 0.819 | .          |
| 19:45872219-T/C | <i>ERCC2</i> | 19:45872219 | White | BLCA | NA          | 0.82  | .          |
| 19:45872374-G/A | <i>ERCC2</i> | 19:45872374 | White | UCEC | NA          | 0.816 | .          |
| 19:45916943-G/T | <i>ERCC1</i> | 19:45916943 | White | STAD | NA          | 0.387 | .          |
| 19:45916943-G/T | <i>ERCC1</i> | 19:45916943 | Asian | STAD | NA          | 0.387 | .          |
| 19:45916982-C/T | <i>ERCC1</i> | 19:45916982 | White | UCEC | rs3212977   | 0.32  | .          |
| 19:45918121-G/A | <i>ERCC1</i> | 19:45918121 | White | COAD | rs772941786 | 0.392 | .          |
| 19:45918121-G/A | <i>ERCC1</i> | 19:45918121 | Asian | COAD | rs772941786 | 0.392 | .          |
| 19:45924443-G/A | <i>ERCC1</i> | 19:45924443 | White | UCEC | NA          | 0.27  | .          |
| 19:45974486-G/A | <i>FOSB</i>  | 19:45974486 | White | COAD | NA          | 0.693 | .          |
| 19:45974486-G/A | <i>FOSB</i>  | 19:45974486 | AA/B  | COAD | NA          | 0.693 | .          |
| 19:45974502-A/C | <i>FOSB</i>  | 19:45974502 | White | CESC | NA          | 0.451 | .          |
| 19:45976235-G/A | <i>FOSB</i>  | 19:45976235 | AA/B  | BRCA | NA          | 0.172 | .          |
| 19:45976235-G/A | <i>FOSB</i>  | 19:45976235 | White | BRCA | NA          | 0.172 | .          |
| 19:45976262-G/T | <i>FOSB</i>  | 19:45976262 | AA/B  | LIHC | NA          | 0.219 | .          |
| 19:48619186-G/A | <i>LIG1</i>  | 19:48619186 | White | CESC | NA          | 0.794 | .          |
| 19:48619186-G/A | <i>LIG1</i>  | 19:48619186 | AA/B  | CESC | NA          | 0.794 | .          |
| 19:48636268-C/T | <i>LIG1</i>  | 19:48636268 | White | COAD | NA          | 0.882 | pathogenic |
| 19:48636294-C/T | <i>LIG1</i>  | 19:48636294 | White | UCEC | rs746737248 | 0.623 | .          |
| 19:48660276-C/T | <i>LIG1</i>  | 19:48660276 | White | UCEC | rs368094694 | 0.112 | .          |

|                 |              |             |       |      |              |       |   |
|-----------------|--------------|-------------|-------|------|--------------|-------|---|
| 19:48660279-C/T | <i>LIG1</i>  | 19:48660279 | White | STAD | rs377155700  | 0.23  | . |
| 19:48660279-C/T | <i>LIG1</i>  | 19:48660279 | Asian | STAD | rs377155700  | 0.23  | . |
| 19:50905546-G/A | <i>POLD1</i> | 19:50905546 | White | COAD | rs144979965  | 0.201 | . |
| 19:50905546-G/A | <i>POLD1</i> | 19:50905546 | AA/B  | COAD | rs144979965  | 0.201 | . |
| 19:50905630-G/A | <i>POLD1</i> | 19:50905630 | AA/B  | COAD | rs1366413924 | 0.489 | . |
| 19:50905630-G/A | <i>POLD1</i> | 19:50905630 | White | COAD | rs1366413924 | 0.489 | . |
| 19:50905974-G/A | <i>POLD1</i> | 19:50905974 | White | UCEC | NA           | 0.587 | . |
| 19:50906796-G/A | <i>POLD1</i> | 19:50906796 | AA/B  | COAD | NA           | 0.673 | . |
| 19:50906796-G/A | <i>POLD1</i> | 19:50906796 | White | COAD | NA           | 0.673 | . |
| 19:50909556-C/T | <i>POLD1</i> | 19:50909556 | White | COAD | NA           | 0.451 | . |
| 19:50909556-C/T | <i>POLD1</i> | 19:50909556 | AA/B  | COAD | NA           | 0.451 | . |
| 19:50910318-C/T | <i>POLD1</i> | 19:50910318 | White | STAD | rs201804732  | 0.267 | . |
| 19:50910318-C/T | <i>POLD1</i> | 19:50910318 | Asian | STAD | rs201804732  | 0.267 | . |
| 19:50910642-C/T | <i>POLD1</i> | 19:50910642 | White | UCEC | rs547831370  | 0.162 | . |
| 19:50912856-G/T | <i>POLD1</i> | 19:50912856 | AA/B  | SARC | NA           | 0.512 | . |
| 19:50912856-G/T | <i>POLD1</i> | 19:50912856 | White | SARC | NA           | 0.512 | . |
| 19:50917018-A/G | <i>POLD1</i> | 19:50917018 | White | UCEC | NA           | 0.97  | . |
| 19:50917041-G/A | <i>POLD1</i> | 19:50917041 | AA/B  | COAD | rs759190487  | 0.313 | . |
| 19:50917041-G/A | <i>POLD1</i> | 19:50917041 | White | COAD | rs759190487  | 0.313 | . |
| 19:55493959-G/T | <i>NLRP2</i> | 19:55493959 | Asian | STAD | NA           | 0.284 | . |
| 19:55493959-G/T | <i>NLRP2</i> | 19:55493959 | White | STAD | NA           | 0.284 | . |
| 19:55494170-C/A | <i>NLRP2</i> | 19:55494170 | White | LUAD | NA           | 0.49  | . |
| 19:55494170-C/A | <i>NLRP2</i> | 19:55494170 | AA/B  | LUAD | NA           | 0.49  | . |

|                 |              |             |       |      |             |       |              |
|-----------------|--------------|-------------|-------|------|-------------|-------|--------------|
| 19:55494276-G/A | <i>NLRP2</i> | 19:55494276 | Asian | STAD | rs763533364 | 0.305 | .            |
| 19:55494276-G/A | <i>NLRP2</i> | 19:55494276 | White | STAD | rs763533364 | 0.305 | .            |
| 19:55494535-G/A | <i>NLRP2</i> | 19:55494535 | Asian | COAD | rs767901107 | 0.228 | .            |
| 19:55494535-G/A | <i>NLRP2</i> | 19:55494535 | White | COAD | rs767901107 | 0.228 | .            |
| 19:55494940-T/C | <i>NLRP2</i> | 19:55494940 | White | COAD | NA          | 0.145 | .            |
| 19:55495061-T/A | <i>NLRP2</i> | 19:55495061 | White | LUAD | NA          | 0.222 | .            |
| 19:55495061-T/A | <i>NLRP2</i> | 19:55495061 | AA/B  | LUAD | NA          | 0.222 | .            |
| 19:55496486-T/G | <i>NLRP2</i> | 19:55496486 | Asian | UCEC | NA          | 0.518 | .            |
| 19:55497679-C/A | <i>NLRP2</i> | 19:55497679 | White | UCEC | NA          | 0.359 | not_provided |
| 19:55505722-C/A | <i>NLRP2</i> | 19:55505722 | White | COAD | NA          | 0.36  | .            |
| 19:7685245-G/A  | <i>XAB2</i>  | 19:7685245  | White | UCEC | NA          | 0.345 | .            |
| 19:7686072-G/A  | <i>XAB2</i>  | 19:7686072  | White | COAD | NA          | 0.338 | .            |
| 19:7686072-G/A  | <i>XAB2</i>  | 19:7686072  | Asian | COAD | NA          | 0.338 | .            |
| 19:7687526-G/A  | <i>XAB2</i>  | 19:7687526  | White | STAD | rs753191949 | 0.198 | .            |
| 19:7688658-A/T  | <i>XAB2</i>  | 19:7688658  | AA/B  | COAD | NA          | 0.487 | .            |
| 19:7688658-A/T  | <i>XAB2</i>  | 19:7688658  | White | COAD | NA          | 0.487 | .            |
| 19:7690852-C/T  | <i>XAB2</i>  | 19:7690852  | White | STAD | NA          | 0.373 | .            |
| 19:7690852-C/T  | <i>XAB2</i>  | 19:7690852  | Asian | STAD | NA          | 0.373 | .            |
| 19:7692145-T/C  | <i>XAB2</i>  | 19:7692145  | White | KIRC | NA          | 0.537 | .            |
| 19:7692145-T/C  | <i>XAB2</i>  | 19:7692145  | AA/B  | KIRC | NA          | 0.537 | .            |
| 19:7692211-C/T  | <i>XAB2</i>  | 19:7692211  | Asian | COAD | rs201040075 | 0.551 | .            |
| 19:7692211-C/T  | <i>XAB2</i>  | 19:7692211  | White | COAD | rs201040075 | 0.551 | .            |
| 2:100017722-G/T | <i>REV1</i>  | 2:100017722 | AA/B  | SARC | NA          | 0.384 | .            |

|                 |              |             |       |      |              |       |   |
|-----------------|--------------|-------------|-------|------|--------------|-------|---|
| 2:100017722-G/T | <i>REV1</i>  | 2:100017722 | White | SARC | NA           | 0.384 | . |
| 2:100065819-C/T | <i>REV1</i>  | 2:100065819 | White | UCEC | rs763086864  | 0.411 | . |
| 2:100079062-A/G | <i>REV1</i>  | 2:100079062 | White | UCEC | NA           | 0.334 | . |
| 2:128028923-C/T | <i>ERCC3</i> | 2:128028923 | White | UCEC | rs1366074068 | 0.964 | . |
| 2:128028923-C/T | <i>ERCC3</i> | 2:128028923 | White | STAD | rs1366074068 | 0.964 | . |
| 2:128028923-C/T | <i>ERCC3</i> | 2:128028923 | Asian | STAD | rs1366074068 | 0.964 | . |
| 2:128028923-C/T | <i>ERCC3</i> | 2:128028923 | AA/B  | UCEC | rs1366074068 | 0.964 | . |
| 2:128030517-G/A | <i>ERCC3</i> | 2:128030517 | White | STAD | NA           | 0.725 | . |
| 2:128030517-G/A | <i>ERCC3</i> | 2:128030517 | Asian | STAD | NA           | 0.725 | . |
| 2:128046300-C/A | <i>ERCC3</i> | 2:128046300 | Asian | UCEC | NA           | 0.388 | . |
| 2:128046300-C/A | <i>ERCC3</i> | 2:128046300 | Asian | UCEC | NA           | 0.691 | . |
| 2:128047329-C/T | <i>ERCC3</i> | 2:128047329 | White | UCEC | rs748503195  | 0.548 | . |
| 2:128047329-C/T | <i>ERCC3</i> | 2:128047329 | White | UCEC | rs748503195  | 0.787 | . |
| 2:136598413-C/T | <i>MCM6</i>  | 2:136598413 | White | UCEC | rs200231978  | 0.122 | . |
| 2:136605718-T/A | <i>MCM6</i>  | 2:136605718 | White | BRCA | NA           | 0.45  | . |
| 2:136605718-T/A | <i>MCM6</i>  | 2:136605718 | AA/B  | BRCA | NA           | 0.45  | . |
| 2:136614396-A/G | <i>MCM6</i>  | 2:136614396 | White | STAD | NA           | 0.515 | . |
| 2:136614396-A/G | <i>MCM6</i>  | 2:136614396 | Asian | STAD | NA           | 0.515 | . |
| 2:136616898-C/A | <i>MCM6</i>  | 2:136616898 | White | UCEC | NA           | 0.473 | . |
| 2:136616905-A/G | <i>MCM6</i>  | 2:136616905 | Asian | UCEC | NA           | 0.462 | . |
| 2:136616960-T/C | <i>MCM6</i>  | 2:136616960 | Asian | STAD | NA           | 0.525 | . |
| 2:136616960-T/C | <i>MCM6</i>  | 2:136616960 | White | STAD | NA           | 0.525 | . |
| 2:136616965-G/A | <i>MCM6</i>  | 2:136616965 | Asian | UCEC | rs771453730  | 0.57  | . |

|                 |             |             |       |      |             |       |   |
|-----------------|-------------|-------------|-------|------|-------------|-------|---|
| 2:136623713-T/G | <i>MCM6</i> | 2:136623713 | Asian | STAD | NA          | 0.383 | . |
| 2:136623713-T/G | <i>MCM6</i> | 2:136623713 | White | STAD | NA          | 0.383 | . |
| 2:136624145-G/A | <i>MCM6</i> | 2:136624145 | Asian | STAD | rs769922696 | 0.277 | . |
| 2:136624145-G/A | <i>MCM6</i> | 2:136624145 | White | STAD | rs769922696 | 0.277 | . |
| 2:136630277-C/T | <i>MCM6</i> | 2:136630277 | Asian | STAD | NA          | 0.442 | . |
| 2:136630277-C/T | <i>MCM6</i> | 2:136630277 | White | STAD | NA          | 0.442 | . |
| 2:152273185-G/A | <i>RIF1</i> | 2:152273185 | AA/B  | CESC | NA          | 0.186 | . |
| 2:152273185-G/A | <i>RIF1</i> | 2:152273185 | White | CESC | NA          | 0.186 | . |
| 2:152285384-G/T | <i>RIF1</i> | 2:152285384 | Asian | UCEC | NA          | 0.385 | . |
| 2:152285384-G/T | <i>RIF1</i> | 2:152285384 | Asian | UCEC | NA          | 0.238 | . |
| 2:152292002-C/T | <i>RIF1</i> | 2:152292002 | White | UCEC | rs182886629 | 0.284 | . |
| 2:152293377-G/A | <i>RIF1</i> | 2:152293377 | Asian | UCEC | rs550389711 | 0.142 | . |
| 2:152293377-G/A | <i>RIF1</i> | 2:152293377 | Asian | UCEC | rs550389711 | 0.11  | . |
| 2:152296613-C/G | <i>RIF1</i> | 2:152296613 | AA/B  | OV   | NA          | 0.312 | . |
| 2:152296613-C/G | <i>RIF1</i> | 2:152296613 | White | OV   | NA          | 0.312 | . |
| 2:152296636-A/C | <i>RIF1</i> | 2:152296636 | White | STAD | NA          | 0.079 | . |
| 2:152296636-A/C | <i>RIF1</i> | 2:152296636 | White | STAD | NA          | 0.312 | . |
| 2:152298450-C/A | <i>RIF1</i> | 2:152298450 | White | UCEC | NA          | 0.416 | . |
| 2:152302991-G/T | <i>RIF1</i> | 2:152302991 | AA/B  | SARC | NA          | 0.087 | . |
| 2:152302991-G/T | <i>RIF1</i> | 2:152302991 | AA/B  | SARC | NA          | 0.531 | . |
| 2:152302991-G/T | <i>RIF1</i> | 2:152302991 | White | SARC | NA          | 0.087 | . |
| 2:152302991-G/T | <i>RIF1</i> | 2:152302991 | White | SARC | NA          | 0.531 | . |
| 2:152308139-G/T | <i>RIF1</i> | 2:152308139 | Asian | UCEC | NA          | 0.268 | . |

|                 |             |             |       |      |             |       |   |
|-----------------|-------------|-------------|-------|------|-------------|-------|---|
| 2:152308139-G/T | <i>RIF1</i> | 2:152308139 | White | STAD | NA          | 0.268 | . |
| 2:152311502-C/A | <i>RIF1</i> | 2:152311502 | White | UCEC | NA          | 0.259 | . |
| 2:152311502-C/A | <i>RIF1</i> | 2:152311502 | White | UCEC | NA          | 0.231 | . |
| 2:152311556-G/A | <i>RIF1</i> | 2:152311556 | White | UCEC | NA          | 0.534 | . |
| 2:152317719-A/G | <i>RIF1</i> | 2:152317719 | Asian | STAD | NA          | 0.333 | . |
| 2:152317719-A/G | <i>RIF1</i> | 2:152317719 | White | STAD | NA          | 0.333 | . |
| 2:152318785-T/G | <i>RIF1</i> | 2:152318785 | White | LUAD | NA          | 0.618 | . |
| 2:152318785-T/G | <i>RIF1</i> | 2:152318785 | AA/B  | LUAD | NA          | 0.618 | . |
| 2:152319680-A/T | <i>RIF1</i> | 2:152319680 | White | STAD | NA          | 0.188 | . |
| 2:152319680-A/T | <i>RIF1</i> | 2:152319680 | Asian | STAD | NA          | 0.188 | . |
| 2:152320293-G/A | <i>RIF1</i> | 2:152320293 | White | CESC | rs751461918 | 0.159 | . |
| 2:152320293-G/A | <i>RIF1</i> | 2:152320293 | AA/B  | CESC | rs751461918 | 0.159 | . |
| 2:152320295-C/T | <i>RIF1</i> | 2:152320295 | White | UCEC | rs754902148 | 0.174 | . |
| 2:152320410-A/C | <i>RIF1</i> | 2:152320410 | Asian | UCEC | NA          | 0.076 | . |
| 2:152320412-G/T | <i>RIF1</i> | 2:152320412 | White | STAD | NA          | 0.171 | . |
| 2:152320527-A/G | <i>RIF1</i> | 2:152320527 | White | STAD | NA          | 0.109 | . |
| 2:152320527-A/G | <i>RIF1</i> | 2:152320527 | Asian | STAD | NA          | 0.109 | . |
| 2:152320704-C/T | <i>RIF1</i> | 2:152320704 | Asian | UCEC | rs141807972 | 0.152 | . |
| 2:152320733-A/C | <i>RIF1</i> | 2:152320733 | White | LUAD | NA          | 0.133 | . |
| 2:152320733-A/C | <i>RIF1</i> | 2:152320733 | AA/B  | LUAD | NA          | 0.133 | . |
| 2:152322492-C/A | <i>RIF1</i> | 2:152322492 | White | UCEC | NA          | 0.084 | . |
| 2:152325030-C/T | <i>RIF1</i> | 2:152325030 | White | UCEC | rs780970704 | 0.165 | . |
| 2:152326316-C/T | <i>RIF1</i> | 2:152326316 | White | BRCA | NA          | 0.484 | . |

|                 |              |             |       |      |              |       |   |
|-----------------|--------------|-------------|-------|------|--------------|-------|---|
| 2:152326316-C/T | <i>RIF1</i>  | 2:152326316 | Asian | BRCA | NA           | 0.484 | . |
| 2:152331504-G/T | <i>RIF1</i>  | 2:152331504 | White | COAD | NA           | 0.136 | . |
| 2:152331504-G/T | <i>RIF1</i>  | 2:152331504 | Asian | COAD | NA           | 0.136 | . |
| 2:165404194-C/G | <i>GRB14</i> | 2:165404194 | AA/B  | BRCA | rs1339598957 | 0.858 | . |
| 2:165404194-C/G | <i>GRB14</i> | 2:165404194 | White | BRCA | rs1339598957 | 0.858 | . |
| 2:17851778-C/T  | <i>SMC6</i>  | 2:17851778  | Asian | UCEC | NA           | 0.457 | . |
| 2:17864974-A/G  | <i>SMC6</i>  | 2:17864974  | Asian | COAD | NA           | 0.3   | . |
| 2:17864974-A/G  | <i>SMC6</i>  | 2:17864974  | White | COAD | NA           | 0.3   | . |
| 2:17881495-C/G  | <i>SMC6</i>  | 2:17881495  | White | CESC | NA           | 0.08  | . |
| 2:17881495-C/G  | <i>SMC6</i>  | 2:17881495  | AA/B  | CESC | NA           | 0.08  | . |
| 2:17896164-G/A  | <i>SMC6</i>  | 2:17896164  | White | BRCA | NA           | 0.255 | . |
| 2:17896164-G/A  | <i>SMC6</i>  | 2:17896164  | AA/B  | BRCA | NA           | 0.255 | . |
| 2:17896206-C/A  | <i>SMC6</i>  | 2:17896206  | White | UCEC | NA           | 0.091 | . |
| 2:17906609-G/A  | <i>SMC6</i>  | 2:17906609  | AA/B  | COAD | rs760703737  | 0.424 | . |
| 2:17906609-G/A  | <i>SMC6</i>  | 2:17906609  | White | COAD | rs760703737  | 0.424 | . |
| 2:17913124-G/A  | <i>SMC6</i>  | 2:17913124  | White | LUSC | NA           | 0.162 | . |
| 2:17913124-G/A  | <i>SMC6</i>  | 2:17913124  | AA/B  | LUSC | NA           | 0.162 | . |
| 2:17919558-C/T  | <i>SMC6</i>  | 2:17919558  | White | UCEC | NA           | 0.37  | . |
| 2:17941274-C/T  | <i>GEN1</i>  | 2:17941274  | White | UCEC | NA           | 0.488 | . |
| 2:17942779-G/A  | <i>GEN1</i>  | 2:17942779  | Asian | UCEC | rs777769429  | 0.356 | . |
| 2:17946183-G/T  | <i>GEN1</i>  | 2:17946183  | White | SARC | NA           | 0.099 | . |
| 2:17946183-G/T  | <i>GEN1</i>  | 2:17946183  | AA/B  | SARC | NA           | 0.099 | . |
| 2:17946302-G/A  | <i>GEN1</i>  | 2:17946302  | White | UCEC | NA           | 0.76  | . |

|                 |               |             |       |      |             |       |   |
|-----------------|---------------|-------------|-------|------|-------------|-------|---|
| 2:17950042-T/G  | <i>GEN1</i>   | 2:17950042  | White | UCEC | NA          | 0.756 | . |
| 2:17952495-C/A  | <i>GEN1</i>   | 2:17952495  | White | UCEC | NA          | 0.089 | . |
| 2:17962800-C/A  | <i>GEN1</i>   | 2:17962800  | White | UCEC | NA          | 0.061 | . |
| 2:190708723-C/T | <i>PMS1</i>   | 2:190708723 | White | UCEC | rs758149651 | 0.422 | . |
| 2:190718672-G/A | <i>PMS1</i>   | 2:190718672 | White | STAD | rs773928881 | 0.622 | . |
| 2:190718672-G/A | <i>PMS1</i>   | 2:190718672 | White | BRCA | rs773928881 | 0.622 | . |
| 2:190718672-G/A | <i>PMS1</i>   | 2:190718672 | AA/B  | BRCA | rs773928881 | 0.622 | . |
| 2:190718672-G/A | <i>PMS1</i>   | 2:190718672 | Asian | STAD | rs773928881 | 0.622 | . |
| 2:190719671-G/T | <i>PMS1</i>   | 2:190719671 | AA/B  | LUAD | NA          | 0.657 | . |
| 2:190719671-G/T | <i>PMS1</i>   | 2:190719671 | White | LUAD | NA          | 0.657 | . |
| 2:190728815-G/A | <i>PMS1</i>   | 2:190728815 | Asian | UCEC | NA          | 0.071 | . |
| 2:190732626-C/T | <i>PMS1</i>   | 2:190732626 | White | UCEC | rs139826569 | 0.56  | . |
| 2:190742011-G/A | <i>PMS1</i>   | 2:190742011 | White | STAD | rs377603311 | 0.781 | . |
| 2:190742011-G/A | <i>PMS1</i>   | 2:190742011 | Asian | STAD | rs377603311 | 0.781 | . |
| 2:206870035-C/G | <i>INO80D</i> | 2:206870035 | AA/B  | KIRC | NA          | 0.185 | . |
| 2:206870035-C/G | <i>INO80D</i> | 2:206870035 | White | KIRC | NA          | 0.185 | . |
| 2:206872095-G/T | <i>INO80D</i> | 2:206872095 | AA/B  | BRCA | NA          | 0.289 | . |
| 2:206872095-G/T | <i>INO80D</i> | 2:206872095 | White | BRCA | NA          | 0.289 | . |
| 2:206920937-G/T | <i>INO80D</i> | 2:206920937 | White | UCEC | NA          | 0.187 | . |
| 2:206927685-G/A | <i>INO80D</i> | 2:206927685 | White | STAD | NA          | 0.401 | . |
| 2:206927685-G/A | <i>INO80D</i> | 2:206927685 | Asian | STAD | NA          | 0.401 | . |
| 2:215593615-G/A | <i>BARD1</i>  | 2:215593615 | Asian | STAD | NA          | 0.537 | . |
| 2:215593615-G/A | <i>BARD1</i>  | 2:215593615 | White | STAD | NA          | 0.537 | . |

|                 |                 |             |       |      |             |       |   |
|-----------------|-----------------|-------------|-------|------|-------------|-------|---|
| 2:216992348-C/G | <i>XRCC5</i>    | 2:216992348 | Asian | STAD | NA          | 0.294 | . |
| 2:216992348-C/G | <i>XRCC5</i>    | 2:216992348 | White | STAD | NA          | 0.294 | . |
| 2:216995653-G/T | <i>XRCC5</i>    | 2:216995653 | White | COAD | NA          | 0.279 | . |
| 2:217069114-G/A | <i>XRCC5</i>    | 2:217069114 | White | COAD | rs772117253 | 0.335 | . |
| 2:217297484-A/G | <i>SMARCAL1</i> | 2:217297484 | Asian | STAD | NA          | 0.949 | . |
| 2:217297484-A/G | <i>SMARCAL1</i> | 2:217297484 | White | STAD | NA          | 0.949 | . |
| 2:217311862-G/A | <i>SMARCAL1</i> | 2:217311862 | White | UCEC | rs753996369 | 0.931 | . |
| 2:217341886-G/T | <i>SMARCAL1</i> | 2:217341886 | AA/B  | KIRP | NA          | 0.383 | . |
| 2:217341886-G/T | <i>SMARCAL1</i> | 2:217341886 | White | KIRP | NA          | 0.383 | . |
| 2:219537590-G/A | <i>STK36</i>    | 2:219537590 | White | UCEC | NA          | 0.932 | . |
| 2:219540121-G/A | <i>STK36</i>    | 2:219540121 | Asian | STAD | rs770755293 | 0.585 | . |
| 2:219540121-G/A | <i>STK36</i>    | 2:219540121 | White | STAD | rs770755293 | 0.585 | . |
| 2:219553429-G/T | <i>STK36</i>    | 2:219553429 | AA/B  | CESC | NA          | 0.459 | . |
| 2:219553429-G/T | <i>STK36</i>    | 2:219553429 | White | CESC | NA          | 0.459 | . |
| 2:219557396-C/G | <i>STK36</i>    | 2:219557396 | Asian | BRCA | NA          | 0.402 | . |
| 2:219557396-C/G | <i>STK36</i>    | 2:219557396 | White | BRCA | NA          | 0.402 | . |
| 2:220022258-C/T | <i>NHEJ1</i>    | 2:220022258 | Asian | UCEC | rs777365329 | 0.039 | . |
| 2:225339039-G/A | <i>CUL3</i>     | 2:225339039 | White | UCEC | rs752958265 | 0.304 | . |
| 2:225339039-G/A | <i>CUL3</i>     | 2:225339039 | White | UCEC | rs752958265 | 0.399 | . |
| 2:225342967-G/A | <i>CUL3</i>     | 2:225342967 | White | STAD | NA          | 0.88  | . |
| 2:225342967-G/A | <i>CUL3</i>     | 2:225342967 | Asian | STAD | NA          | 0.88  | . |
| 2:225365164-G/A | <i>CUL3</i>     | 2:225365164 | AA/B  | COAD | NA          | 0.841 | . |
| 2:225365164-G/A | <i>CUL3</i>     | 2:225365164 | White | COAD | NA          | 0.841 | . |

|                 |               |             |       |      |             |       |   |
|-----------------|---------------|-------------|-------|------|-------------|-------|---|
| 2:225379426-G/C | <i>CUL3</i>   | 2:225379426 | AA/B  | COAD | NA          | 0.695 | . |
| 2:225379426-G/C | <i>CUL3</i>   | 2:225379426 | AA/B  | COAD | NA          | 0.194 | . |
| 2:225379426-G/C | <i>CUL3</i>   | 2:225379426 | White | COAD | NA          | 0.695 | . |
| 2:225379426-G/C | <i>CUL3</i>   | 2:225379426 | White | COAD | NA          | 0.194 | . |
| 2:225400349-C/G | <i>CUL3</i>   | 2:225400349 | White | OV   | NA          | 0.219 | . |
| 2:225400349-C/G | <i>CUL3</i>   | 2:225400349 | White | OV   | NA          | 0.284 | . |
| 2:225400349-C/G | <i>CUL3</i>   | 2:225400349 | AA/B  | OV   | NA          | 0.219 | . |
| 2:225400349-C/G | <i>CUL3</i>   | 2:225400349 | AA/B  | OV   | NA          | 0.284 | . |
| 2:225422486-G/A | <i>CUL3</i>   | 2:225422486 | Asian | ESCA | NA          | 0.638 | . |
| 2:225422486-G/A | <i>CUL3</i>   | 2:225422486 | Asian | ESCA | NA          | 0.347 | . |
| 2:225422486-G/A | <i>CUL3</i>   | 2:225422486 | White | ESCA | NA          | 0.638 | . |
| 2:225422486-G/A | <i>CUL3</i>   | 2:225422486 | White | ESCA | NA          | 0.347 | . |
| 2:231222653-C/T | <i>SP140L</i> | 2:231222653 | Asian | UCEC | rs189762003 | 0.278 | . |
| 2:231236364-G/T | <i>SP140L</i> | 2:231236364 | Asian | UCEC | NA          | 0.204 | . |
| 2:231256883-G/T | <i>SP140L</i> | 2:231256883 | White | LUAD | NA          | 0.381 | . |
| 2:231256883-G/T | <i>SP140L</i> | 2:231256883 | AA/B  | LUAD | NA          | 0.381 | . |
| 2:231256909-C/T | <i>SP140L</i> | 2:231256909 | White | UCEC | rs61750011  | 0.335 | . |
| 2:231264899-G/A | <i>SP140L</i> | 2:231264899 | White | HNSC | rs747016700 | 0.304 | . |
| 2:231266421-G/C | <i>SP140L</i> | 2:231266421 | Asian | ESCA | NA          | 0.121 | . |
| 2:231266421-G/C | <i>SP140L</i> | 2:231266421 | White | ESCA | NA          | 0.121 | . |
| 2:25457180-C/T  | <i>DNMT3A</i> | 2:25457180  | White | UCEC | rs749167103 | 0.696 | . |
| 2:25457215-C/T  | <i>DNMT3A</i> | 2:25457215  | AA/B  | COAD | NA          | 0.798 | . |
| 2:25457215-C/T  | <i>DNMT3A</i> | 2:25457215  | White | COAD | NA          | 0.798 | . |

|                |               |            |       |      |                |       |                                    |
|----------------|---------------|------------|-------|------|----------------|-------|------------------------------------|
| 2:25463181-C/T | <i>DNMT3A</i> | 2:25463181 | Asian | UCEC | rs757823678    | 0.904 | .                                  |
| 2:25467457-C/T | <i>DNMT3A</i> | 2:25467457 | White | LGG  | NA             | 0.955 | .                                  |
| 2:25467457-C/T | <i>DNMT3A</i> | 2:25467457 | AA/B  | LGG  | NA             | 0.955 | .                                  |
| 2:25469531-C/T | <i>DNMT3A</i> | 2:25469531 | AA/B  | LUAD | NA             | 0.806 | .                                  |
| 2:25469531-C/T | <i>DNMT3A</i> | 2:25469531 | White | LUAD | NA             | 0.806 | .                                  |
| 2:25470582-C/A | <i>DNMT3A</i> | 2:25470582 | Asian | UCEC | NA             | 0.871 | .                                  |
| 2:28117484-G/A | <i>BRE</i>    | 2:28117484 | AA/B  | BRCA | rs1445947949   | 0.204 | .                                  |
| 2:28210901-G/A | <i>BRE</i>    | 2:28210901 | Asian | STAD | 2:28210901_G/A | 0.419 | .                                  |
| 2:28210901-G/A | <i>BRE</i>    | 2:28210901 | White | STAD | 2:28210901_G/A | 0.419 | .                                  |
| 2:28210901-G/A | <i>BRE</i>    | 2:28210901 | Asian | UCEC | 2:28210901_G/A | 0.419 | .                                  |
| 2:47637393-G/A | <i>MSH2</i>   | 2:47637393 | Asian | STAD | NA             | 0.905 | .                                  |
| 2:47637393-G/A | <i>MSH2</i>   | 2:47637393 | White | STAD | NA             | 0.905 | .                                  |
| 2:47639563-G/T | <i>MSH2</i>   | 2:47639563 | White | UCEC | NA             | 0.875 | .                                  |
| 2:47643493-A/C | <i>MSH2</i>   | 2:47643493 | White | COAD | NA             | 0.779 | .                                  |
| 2:47643546-G/T | <i>MSH2</i>   | 2:47643546 | White | UCEC | rs1465121242   | 0.93  | .                                  |
| 2:47693856-C/T | <i>MSH2</i>   | 2:47693856 | White | UCEC | rs755818010    | 0.853 | .                                  |
| 2:47702214-G/A | <i>MSH2</i>   | 2:47702214 | Asian | ESCA | NA             | 0.844 | .                                  |
| 2:47702214-G/A | <i>MSH2</i>   | 2:47702214 | White | ESCA | NA             | 0.844 | .                                  |
| 2:47703590-G/A | <i>MSH2</i>   | 2:47703590 | AA/B  | COAD | NA             | 0.854 | uncertain_significance, pathogenic |
| 2:47703590-G/A | <i>MSH2</i>   | 2:47703590 | White | COAD | NA             | 0.854 | uncertain_significance, pathogenic |
| 2:47705415-G/A | <i>MSH2</i>   | 2:47705415 | Asian | COAD | NA             | 0.925 | .                                  |

|                |             |            |       |      |             |       |                        |
|----------------|-------------|------------|-------|------|-------------|-------|------------------------|
| 2:47705415-G/A | <i>MSH2</i> | 2:47705415 | White | COAD | NA          | 0.925 | .                      |
| 2:47709954-G/A | <i>MSH2</i> | 2:47709954 | White | STAD | NA          | 0.703 | .                      |
| 2:48018102-G/T | <i>MSH6</i> | 2:48018102 | Asian | UCEC | NA          | 0.64  | uncertain_significance |
| 2:48026261-A/C | <i>MSH6</i> | 2:48026261 | Asian | UCEC | NA          | 0.84  | .                      |
| 2:48026449-G/A | <i>MSH6</i> | 2:48026449 | AA/B  | BRCA | NA          | 0.959 | .                      |
| 2:48026449-G/A | <i>MSH6</i> | 2:48026449 | White | BRCA | NA          | 0.959 | .                      |
| 2:48027125-C/G | <i>MSH6</i> | 2:48027125 | AA/B  | KIRP | NA          | 0.691 | .                      |
| 2:48027125-C/G | <i>MSH6</i> | 2:48027125 | White | KIRP | NA          | 0.691 | .                      |
| 2:48027198-A/C | <i>MSH6</i> | 2:48027198 | White | BRCA | NA          | 0.693 | .                      |
| 2:48027198-A/C | <i>MSH6</i> | 2:48027198 | AA/B  | BRCA | NA          | 0.693 | .                      |
| 2:48028049-G/A | <i>MSH6</i> | 2:48028049 | Asian | STAD | NA          | 0.857 | uncertain_significance |
| 2:48028049-G/A | <i>MSH6</i> | 2:48028049 | White | STAD | NA          | 0.857 | uncertain_significance |
| 2:48030583-A/G | <i>MSH6</i> | 2:48030583 | White | ESCA | rs372103816 | 0.83  | uncertain_significance |
| 2:48030583-A/G | <i>MSH6</i> | 2:48030583 | Asian | ESCA | rs372103816 | 0.83  | uncertain_significance |
| 2:48030613-G/A | <i>MSH6</i> | 2:48030613 | White | UCEC | rs779617676 | 0.839 | uncertain_significance |
| 2:48033419-T/G | <i>MSH6</i> | 2:48033419 | White | COAD | NA          | 0.735 | .                      |
| 2:48033419-T/G | <i>MSH6</i> | 2:48033419 | AA/B  | COAD | NA          | 0.735 | .                      |

|                |              |            |       |      |              |       |   |
|----------------|--------------|------------|-------|------|--------------|-------|---|
| 2:58392928-C/T | <i>FANCL</i> | 2:58392928 | Asian | UCEC | rs199564543  | 0.699 | . |
| 2:58392928-C/T | <i>FANCL</i> | 2:58392928 | Asian | UCEC | rs199564543  | 0.772 | . |
| 2:58425763-A/C | <i>FANCL</i> | 2:58425763 | AA/B  | COAD | NA           | 0.303 | . |
| 2:58425763-A/C | <i>FANCL</i> | 2:58425763 | AA/B  | COAD | NA           | 0.494 | . |
| 2:58425763-A/C | <i>FANCL</i> | 2:58425763 | White | COAD | NA           | 0.303 | . |
| 2:58425763-A/C | <i>FANCL</i> | 2:58425763 | White | COAD | NA           | 0.494 | . |
| 2:58468421-G/A | <i>FANCL</i> | 2:58468421 | White | COAD | rs146690827  | 0.24  | . |
| 2:58468421-G/A | <i>FANCL</i> | 2:58468421 | White | COAD | rs146690827  | 0.262 | . |
| 2:58468421-G/A | <i>FANCL</i> | 2:58468421 | AA/B  | COAD | rs146690827  | 0.24  | . |
| 2:58468421-G/A | <i>FANCL</i> | 2:58468421 | AA/B  | COAD | rs146690827  | 0.262 | . |
| 2:68729914-C/A | <i>APLF</i>  | 2:68729914 | Asian | STAD | NA           | 0.168 | . |
| 2:68729914-C/A | <i>APLF</i>  | 2:68729914 | White | STAD | NA           | 0.168 | . |
| 2:68804999-G/C | <i>APLF</i>  | 2:68804999 | AA/B  | CESC | rs1221229078 | 0.125 | . |
| 2:68804999-G/C | <i>APLF</i>  | 2:68804999 | White | CESC | rs1221229078 | 0.125 | . |
| 2:68805110-G/A | <i>APLF</i>  | 2:68805110 | AA/B  | BRCA | rs755954160  | 0.073 | . |
| 2:68805110-G/A | <i>APLF</i>  | 2:68805110 | White | BRCA | rs755954160  | 0.073 | . |
| 2:68805150-A/C | <i>APLF</i>  | 2:68805150 | Asian | UCEC | NA           | 0.064 | . |
| 2:7018173-G/A  | <i>RSAD2</i> | 2:7018173  | White | COAD | rs751694276  | 0.782 | . |
| 2:7023509-G/T  | <i>RSAD2</i> | 2:7023509  | Asian | UCEC | rs1258495440 | 0.59  | . |
| 2:7023572-G/T  | <i>RSAD2</i> | 2:7023572  | White | THCA | NA           | 0.777 | . |
| 2:7023572-G/T  | <i>RSAD2</i> | 2:7023572  | Asian | THCA | NA           | 0.777 | . |
| 2:7027129-T/C  | <i>RSAD2</i> | 2:7027129  | AA/B  | LUSC | NA           | 0.968 | . |
| 2:7027129-T/C  | <i>RSAD2</i> | 2:7027129  | White | LUSC | NA           | 0.968 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 2:7027234-G/A   | <i>RSAD2</i>  | 2:7027234   | AA/B  | COAD | rs753068844  | 0.56  | . |
| 2:7027234-G/A   | <i>RSAD2</i>  | 2:7027234   | White | COAD | rs753068844  | 0.56  | . |
| 2:7036014-T/A   | <i>RSAD2</i>  | 2:7036014   | Asian | UCEC | NA           | 0.604 | . |
| 20:3778375-T/C  | <i>CDC25B</i> | 20:3778375  | White | COAD | NA           | 0.162 | . |
| 20:3778396-G/T  | <i>CDC25B</i> | 20:3778396  | White | LUAD | rs1488303200 | 0.434 | . |
| 20:3778396-G/T  | <i>CDC25B</i> | 20:3778396  | AA/B  | LUAD | rs1488303200 | 0.434 | . |
| 20:3781144-C/T  | <i>CDC25B</i> | 20:3781144  | White | STAD | rs775666911  | 0.353 | . |
| 20:3781144-C/T  | <i>CDC25B</i> | 20:3781144  | Asian | STAD | rs775666911  | 0.353 | . |
| 20:3783576-T/C  | <i>CDC25B</i> | 20:3783576  | Asian | COAD | NA           | 0.172 | . |
| 20:3783576-T/C  | <i>CDC25B</i> | 20:3783576  | White | COAD | NA           | 0.172 | . |
| 20:3783819-G/C  | <i>CDC25B</i> | 20:3783819  | AA/B  | LIHC | NA           | 0.919 | . |
| 20:3784183-A/G  | <i>CDC25B</i> | 20:3784183  | AA/B  | COAD | NA           | 0.547 | . |
| 20:3784183-A/G  | <i>CDC25B</i> | 20:3784183  | White | COAD | NA           | 0.547 | . |
| 20:55917885-T/C | <i>SPO11</i>  | 20:55917885 | White | COAD | NA           | 0.67  | . |
| 20:55918512-T/C | <i>SPO11</i>  | 20:55918512 | White | STAD | rs746992170  | 0.423 | . |
| 20:55918512-T/C | <i>SPO11</i>  | 20:55918512 | Asian | STAD | rs746992170  | 0.423 | . |
| 20:62292678-A/G | <i>RTEL1</i>  | 20:62292678 | AA/B  | CESC | NA           | 0.836 | . |
| 20:62292678-A/G | <i>RTEL1</i>  | 20:62292678 | White | CESC | NA           | 0.836 | . |
| 20:62293281-G/A | <i>RTEL1</i>  | 20:62293281 | White | UCEC | rs769163032  | 0.261 | . |
| 20:62320953-G/T | <i>RTEL1</i>  | 20:62320953 | White | COAD | NA           | 0.85  | . |
| 20:62326186-C/T | <i>RTEL1</i>  | 20:62326186 | AA/B  | BRCA | rs762640318  | 0.319 | . |
| 20:62326186-C/T | <i>RTEL1</i>  | 20:62326186 | White | BRCA | rs762640318  | 0.319 | . |
| 21:42807920-G/C | <i>MXI</i>    | 21:42807920 | Asian | BRCA | NA           | 0.965 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 21:42807920-G/C | <i>MXI</i>    | 21:42807920 | White | BRCA | NA           | 0.965 | . |
| 21:42807927-T/G | <i>MXI</i>    | 21:42807927 | White | COAD | NA           | 0.971 | . |
| 21:42807927-T/G | <i>MXI</i>    | 21:42807927 | AA/B  | COAD | NA           | 0.971 | . |
| 21:42830560-G/C | <i>MXI</i>    | 21:42830560 | White | BRCA | NA           | 0.268 | . |
| 21:42830560-G/C | <i>MXI</i>    | 21:42830560 | AA/B  | BRCA | NA           | 0.268 | . |
| 22:19422280-G/T | <i>MRPL40</i> | 22:19422280 | Asian | UCEC | NA           | 0.317 | . |
| 22:22312960-A/C | <i>TOP3B</i>  | 22:22312960 | White | UCEC | NA           | 0.511 | . |
| 22:22316801-C/T | <i>TOP3B</i>  | 22:22316801 | White | ESCA | rs762892315  | 0.92  | . |
| 22:22316801-C/T | <i>TOP3B</i>  | 22:22316801 | Asian | ESCA | rs762892315  | 0.92  | . |
| 22:22316924-G/A | <i>TOP3B</i>  | 22:22316924 | White | COAD | rs776734531  | 0.427 | . |
| 22:22316924-G/A | <i>TOP3B</i>  | 22:22316924 | AA/B  | COAD | rs776734531  | 0.427 | . |
| 22:22319678-G/A | <i>TOP3B</i>  | 22:22319678 | AA/B  | COAD | rs769874024  | 0.514 | . |
| 22:22319678-G/A | <i>TOP3B</i>  | 22:22319678 | White | COAD | rs769874024  | 0.514 | . |
| 22:22324736-C/A | <i>TOP3B</i>  | 22:22324736 | AA/B  | LUAD | rs1488574727 | 0.093 | . |
| 22:22324736-C/A | <i>TOP3B</i>  | 22:22324736 | White | LUAD | rs1488574727 | 0.093 | . |
| 22:22892465-C/G | <i>PRAME</i>  | 22:22892465 | White | LUAD | NA           | 0.146 | . |
| 22:22892465-C/G | <i>PRAME</i>  | 22:22892465 | AA/B  | LUAD | NA           | 0.146 | . |
| 22:22892728-G/A | <i>PRAME</i>  | 22:22892728 | Asian | STAD | rs751654581  | 0.212 | . |
| 22:22892728-G/A | <i>PRAME</i>  | 22:22892728 | Asian | STAD | rs751654581  | 0.15  | . |
| 22:22892728-G/A | <i>PRAME</i>  | 22:22892728 | White | STAD | rs751654581  | 0.212 | . |
| 22:22892728-G/A | <i>PRAME</i>  | 22:22892728 | White | STAD | rs751654581  | 0.15  | . |
| 22:22893364-A/C | <i>PRAME</i>  | 22:22893364 | White | LUSC | rs769323726  | 0.225 | . |
| 22:22893364-A/C | <i>PRAME</i>  | 22:22893364 | White | LUSC | rs769323726  | 0.128 | . |

|                 |              |             |       |      |             |       |                        |
|-----------------|--------------|-------------|-------|------|-------------|-------|------------------------|
| 22:22893364-A/C | <i>PRAME</i> | 22:22893364 | AA/B  | LUSC | rs769323726 | 0.225 | .                      |
| 22:22893364-A/C | <i>PRAME</i> | 22:22893364 | AA/B  | LUSC | rs769323726 | 0.128 | .                      |
| 22:29091738-C/T | <i>CHEK2</i> | 22:29091738 | White | SARC | NA          | 0.147 | .                      |
| 22:29091738-C/T | <i>CHEK2</i> | 22:29091738 | AA/B  | SARC | NA          | 0.147 | .                      |
| 22:29091838-C/G | <i>CHEK2</i> | 22:29091838 | White | CESC | NA          | 0.14  | .                      |
| 22:29091838-C/G | <i>CHEK2</i> | 22:29091838 | White | CESC | NA          | 0.307 | .                      |
| 22:29091838-C/G | <i>CHEK2</i> | 22:29091838 | AA/B  | CESC | NA          | 0.14  | .                      |
| 22:29091838-C/G | <i>CHEK2</i> | 22:29091838 | AA/B  | CESC | NA          | 0.307 | .                      |
| 22:29099509-A/C | <i>CHEK2</i> | 22:29099509 | Asian | UCEC | NA          | 0.551 | .                      |
| 22:29099509-A/C | <i>CHEK2</i> | 22:29099509 | Asian | UCEC | NA          | 0.901 | .                      |
| 22:29106013-A/T | <i>CHEK2</i> | 22:29106013 | White | BRCA | NA          | 0.36  | .                      |
| 22:29106013-A/T | <i>CHEK2</i> | 22:29106013 | White | BRCA | NA          | 0.748 | .                      |
| 22:29106013-A/T | <i>CHEK2</i> | 22:29106013 | AA/B  | BRCA | NA          | 0.36  | .                      |
| 22:29106013-A/T | <i>CHEK2</i> | 22:29106013 | AA/B  | BRCA | NA          | 0.748 | .                      |
| 22:29107986-T/G | <i>CHEK2</i> | 22:29107986 | White | COAD | NA          | 0.222 | .                      |
| 22:29115390-G/A | <i>CHEK2</i> | 22:29115390 | AA/B  | SARC | NA          | 0.537 | .                      |
| 22:29115390-G/A | <i>CHEK2</i> | 22:29115390 | White | SARC | NA          | 0.537 | .                      |
| 22:29121000-T/C | <i>CHEK2</i> | 22:29121000 | Asian | THCA | rs369223840 | 0.61  | uncertain_significance |
| 22:29121000-T/C | <i>CHEK2</i> | 22:29121000 | White | THCA | rs369223840 | 0.61  | uncertain_significance |
| 22:29121073-C/T | <i>CHEK2</i> | 22:29121073 | White | UCEC | NA          | 0.82  | .                      |

|                 |                |             |       |      |              |       |                        |
|-----------------|----------------|-------------|-------|------|--------------|-------|------------------------|
| 22:29121241-C/T | <i>CHEK2</i>   | 22:29121241 | AA/B  | COAD | rs587781667  | 0.678 | uncertain_significance |
| 22:29121241-C/T | <i>CHEK2</i>   | 22:29121241 | White | COAD | rs587781667  | 0.678 | uncertain_significance |
| 22:29121246-G/C | <i>CHEK2</i>   | 22:29121246 | Asian | THCA | NA           | 0.915 | .                      |
| 22:29121246-G/C | <i>CHEK2</i>   | 22:29121246 | White | THCA | NA           | 0.915 | .                      |
| 22:36537873-C/G | <i>APOL3</i>   | 22:36537873 | White | ESCA | NA           | 0.19  | .                      |
| 22:36537873-C/G | <i>APOL3</i>   | 22:36537873 | Asian | ESCA | NA           | 0.19  | .                      |
| 22:36537881-G/T | <i>APOL3</i>   | 22:36537881 | AA/B  | LUAD | rs537640724  | 0.076 | .                      |
| 22:36537881-G/T | <i>APOL3</i>   | 22:36537881 | White | LUAD | rs537640724  | 0.076 | .                      |
| 22:38363649-T/C | <i>POLR2F</i>  | 22:38363649 | White | COAD | NA           | 0.878 | .                      |
| 22:38935337-C/T | <i>DMC1</i>    | 22:38935337 | Asian | STAD | rs1282071888 | 0.674 | .                      |
| 22:38935337-C/T | <i>DMC1</i>    | 22:38935337 | White | STAD | rs1282071888 | 0.674 | .                      |
| 22:42024230-T/C | <i>XRCC6</i>   | 22:42024230 | White | UCEC | NA           | 0.458 | .                      |
| 22:42032677-G/C | <i>XRCC6</i>   | 22:42032677 | Asian | BRCA | NA           | 0.366 | .                      |
| 22:42032677-G/C | <i>XRCC6</i>   | 22:42032677 | White | BRCA | NA           | 0.366 | .                      |
| 22:50695537-C/T | <i>MAPK12</i>  | 22:50695537 | White | CESC | rs750343193  | 0.404 | .                      |
| 22:50695537-C/T | <i>MAPK12</i>  | 22:50695537 | AA/B  | CESC | rs750343193  | 0.404 | .                      |
| 22:50987379-C/T | <i>KLHDC7B</i> | 22:50987379 | White | COAD | rs546175063  | 0.242 | .                      |
| 22:50987379-C/T | <i>KLHDC7B</i> | 22:50987379 | AA/B  | COAD | rs546175063  | 0.242 | .                      |
| 22:50987832-G/A | <i>KLHDC7B</i> | 22:50987832 | Asian | UCEC | NA           | 0.459 | .                      |
| 22:50987889-G/A | <i>KLHDC7B</i> | 22:50987889 | White | STAD | rs371425484  | 0.468 | .                      |
| 22:50987889-G/A | <i>KLHDC7B</i> | 22:50987889 | Asian | STAD | rs371425484  | 0.468 | .                      |

|                 |                |             |       |      |             |       |   |
|-----------------|----------------|-------------|-------|------|-------------|-------|---|
| 22:50987890-C/T | <i>KLHDC7B</i> | 22:50987890 | White | CESC | NA          | 0.539 | . |
| 22:50987890-C/T | <i>KLHDC7B</i> | 22:50987890 | AA/B  | CESC | NA          | 0.539 | . |
| 22:50988099-C/T | <i>KLHDC7B</i> | 22:50988099 | Asian | STAD | rs758075611 | 0.267 | . |
| 22:50988099-C/T | <i>KLHDC7B</i> | 22:50988099 | White | STAD | rs758075611 | 0.267 | . |
| 22:50988123-C/T | <i>KLHDC7B</i> | 22:50988123 | White | STAD | rs750273973 | 0.2   | . |
| 22:50988123-C/T | <i>KLHDC7B</i> | 22:50988123 | Asian | STAD | rs750273973 | 0.2   | . |
| 3:10078003-G/T  | <i>FANCD2</i>  | 3:10078003  | Asian | STAD | NA          | 0.063 | . |
| 3:10078003-G/T  | <i>FANCD2</i>  | 3:10078003  | White | STAD | NA          | 0.063 | . |
| 3:10081483-G/A  | <i>FANCD2</i>  | 3:10081483  | White | STAD | NA          | 0.488 | . |
| 3:10081483-G/A  | <i>FANCD2</i>  | 3:10081483  | Asian | STAD | NA          | 0.488 | . |
| 3:10107101-C/T  | <i>FANCD2</i>  | 3:10107101  | AA/B  | BRCA | NA          | 0.194 | . |
| 3:10107101-C/T  | <i>FANCD2</i>  | 3:10107101  | White | BRCA | NA          | 0.194 | . |
| 3:10108924-C/A  | <i>FANCD2</i>  | 3:10108924  | White | KIRP | NA          | 0.187 | . |
| 3:10108924-C/A  | <i>FANCD2</i>  | 3:10108924  | AA/B  | KIRP | NA          | 0.187 | . |
| 3:10114587-T/A  | <i>FANCD2</i>  | 3:10114587  | AA/B  | BRCA | NA          | 0.19  | . |
| 3:10114587-T/A  | <i>FANCD2</i>  | 3:10114587  | White | BRCA | NA          | 0.19  | . |
| 3:121168239-T/G | <i>POLQ</i>    | 3:121168239 | Asian | UCEC | NA          | 0.792 | . |
| 3:121190857-G/A | <i>POLQ</i>    | 3:121190857 | AA/B  | CESC | NA          | 0.359 | . |
| 3:121190857-G/A | <i>POLQ</i>    | 3:121190857 | White | CESC | NA          | 0.359 | . |
| 3:121190872-C/A | <i>POLQ</i>    | 3:121190872 | White | COAD | NA          | 0.518 | . |
| 3:121190872-C/A | <i>POLQ</i>    | 3:121190872 | Asian | COAD | NA          | 0.518 | . |
| 3:121192268-G/T | <i>POLQ</i>    | 3:121192268 | White | UCEC | NA          | 0.212 | . |
| 3:121192292-T/G | <i>POLQ</i>    | 3:121192292 | White | UCEC | NA          | 0.138 | . |

|                 |             |             |       |      |             |       |   |
|-----------------|-------------|-------------|-------|------|-------------|-------|---|
| 3:121200433-T/A | <i>POLQ</i> | 3:121200433 | White | LUAD | NA          | 0.326 | . |
| 3:121200433-T/A | <i>POLQ</i> | 3:121200433 | AA/B  | LUAD | NA          | 0.326 | . |
| 3:121206221-A/T | <i>POLQ</i> | 3:121206221 | AA/B  | BRCA | NA          | 0.208 | . |
| 3:121206221-A/T | <i>POLQ</i> | 3:121206221 | White | BRCA | NA          | 0.208 | . |
| 3:121209250-C/T | <i>POLQ</i> | 3:121209250 | White | UCEC | NA          | 0.169 | . |
| 3:121215700-G/A | <i>POLQ</i> | 3:121215700 | White | STAD | rs373455498 | 0.456 | . |
| 3:121217345-C/T | <i>POLQ</i> | 3:121217345 | White | KIRC | NA          | 0.18  | . |
| 3:121217345-C/T | <i>POLQ</i> | 3:121217345 | AA/B  | KIRC | NA          | 0.18  | . |
| 3:121217409-C/T | <i>POLQ</i> | 3:121217409 | White | BRCA | NA          | 0.212 | . |
| 3:121217409-C/T | <i>POLQ</i> | 3:121217409 | AA/B  | BRCA | NA          | 0.212 | . |
| 3:121238807-C/T | <i>POLQ</i> | 3:121238807 | White | STAD | rs763394640 | 0.655 | . |
| 3:121240856-G/C | <i>POLQ</i> | 3:121240856 | White | CESC | NA          | 0.634 | . |
| 3:121240856-G/C | <i>POLQ</i> | 3:121240856 | AA/B  | CESC | NA          | 0.634 | . |
| 3:121248537-C/A | <i>POLQ</i> | 3:121248537 | Asian | UCEC | NA          | 0.507 | . |
| 3:121258349-C/T | <i>POLQ</i> | 3:121258349 | White | STAD | NA          | 0.21  | . |
| 3:121258349-C/T | <i>POLQ</i> | 3:121258349 | Asian | STAD | NA          | 0.21  | . |
| 3:121264612-A/C | <i>POLQ</i> | 3:121264612 | AA/B  | LUSC | NA          | 0.037 | . |
| 3:121264612-A/C | <i>POLQ</i> | 3:121264612 | White | LUSC | NA          | 0.037 | . |
| 3:127323573-G/A | <i>MCM2</i> | 3:127323573 | White | UCEC | rs755140598 | 0.607 | . |
| 3:127327751-T/A | <i>MCM2</i> | 3:127327751 | White | STAD | NA          | 0.603 | . |
| 3:127327751-T/A | <i>MCM2</i> | 3:127327751 | White | STAD | NA          | 0.966 | . |
| 3:127327751-T/A | <i>MCM2</i> | 3:127327751 | Asian | STAD | NA          | 0.603 | . |
| 3:127327751-T/A | <i>MCM2</i> | 3:127327751 | Asian | STAD | NA          | 0.966 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 3:127335861-C/T | <i>MCM2</i>   | 3:127335861 | White | STAD | rs768309904  | 0.341 | . |
| 3:127335861-C/T | <i>MCM2</i>   | 3:127335861 | White | STAD | rs768309904  | 0.582 | . |
| 3:127335861-C/T | <i>MCM2</i>   | 3:127335861 | Asian | STAD | rs768309904  | 0.341 | . |
| 3:127335861-C/T | <i>MCM2</i>   | 3:127335861 | Asian | STAD | rs768309904  | 0.582 | . |
| 3:127339709-C/T | <i>MCM2</i>   | 3:127339709 | White | STAD | rs766565920  | 0.222 | . |
| 3:127339709-C/T | <i>MCM2</i>   | 3:127339709 | Asian | STAD | rs766565920  | 0.222 | . |
| 3:127339709-C/T | <i>MCM2</i>   | 3:127339709 | White | UCEC | rs766565920  | 0.222 | . |
| 3:127340541-T/G | <i>MCM2</i>   | 3:127340541 | Asian | UCEC | NA           | 0.238 | . |
| 3:127340541-T/G | <i>MCM2</i>   | 3:127340541 | Asian | UCEC | NA           | 0.26  | . |
| 3:129151945-G/T | <i>MBD4</i>   | 3:129151945 | White | COAD | NA           | 0.617 | . |
| 3:129151968-G/A | <i>MBD4</i>   | 3:129151968 | Asian | COAD | rs1381175027 | 0.882 | . |
| 3:129151968-G/A | <i>MBD4</i>   | 3:129151968 | White | COAD | rs1381175027 | 0.882 | . |
| 3:129152019-C/G | <i>MBD4</i>   | 3:129152019 | White | BRCA | NA           | 0.692 | . |
| 3:129152019-C/G | <i>MBD4</i>   | 3:129152019 | Asian | BRCA | NA           | 0.692 | . |
| 3:133335685-C/G | <i>TOPBP1</i> | 3:133335685 | White | BRCA | rs1156859173 | 0.692 | . |
| 3:133335685-C/G | <i>TOPBP1</i> | 3:133335685 | AA/B  | BRCA | rs1156859173 | 0.692 | . |
| 3:133339033-G/A | <i>TOPBP1</i> | 3:133339033 | Asian | STAD | rs751699737  | 0.34  | . |
| 3:133339033-G/A | <i>TOPBP1</i> | 3:133339033 | White | STAD | rs751699737  | 0.34  | . |
| 3:133339083-C/A | <i>TOPBP1</i> | 3:133339083 | Asian | UCEC | NA           | 0.21  | . |
| 3:133342953-C/A | <i>TOPBP1</i> | 3:133342953 | White | UCEC | NA           | 0.553 | . |
| 3:133347225-A/G | <i>TOPBP1</i> | 3:133347225 | White | COAD | NA           | 0.645 | . |
| 3:133347225-A/G | <i>TOPBP1</i> | 3:133347225 | AA/B  | COAD | NA           | 0.645 | . |
| 3:133356736-G/T | <i>TOPBP1</i> | 3:133356736 | White | UCEC | NA           | 0.236 | . |

|                 |               |             |       |      |             |       |   |
|-----------------|---------------|-------------|-------|------|-------------|-------|---|
| 3:133358853-C/T | <i>TOPBP1</i> | 3:133358853 | AA/B  | BRCA | NA          | 0.521 | . |
| 3:133358853-C/T | <i>TOPBP1</i> | 3:133358853 | White | BRCA | NA          | 0.521 | . |
| 3:133358952-A/C | <i>TOPBP1</i> | 3:133358952 | Asian | UCEC | NA          | 0.973 | . |
| 3:133358955-T/C | <i>TOPBP1</i> | 3:133358955 | Asian | STAD | NA          | 0.956 | . |
| 3:133358955-T/C | <i>TOPBP1</i> | 3:133358955 | White | STAD | NA          | 0.956 | . |
| 3:133363129-G/T | <i>TOPBP1</i> | 3:133363129 | White | UCEC | NA          | 0.044 | . |
| 3:133372215-G/T | <i>TOPBP1</i> | 3:133372215 | White | UCEC | NA          | 0.296 | . |
| 3:133372215-G/T | <i>TOPBP1</i> | 3:133372215 | White | UCEC | NA          | 0.306 | . |
| 3:133372333-G/T | <i>TOPBP1</i> | 3:133372333 | White | BRCA | NA          | 0.356 | . |
| 3:133372333-G/T | <i>TOPBP1</i> | 3:133372333 | Asian | BRCA | NA          | 0.356 | . |
| 3:133372361-C/G | <i>TOPBP1</i> | 3:133372361 | White | STAD | NA          | 0.311 | . |
| 3:133372361-C/G | <i>TOPBP1</i> | 3:133372361 | White | STAD | NA          | 0.807 | . |
| 3:133372361-C/G | <i>TOPBP1</i> | 3:133372361 | Asian | STAD | NA          | 0.311 | . |
| 3:133372361-C/G | <i>TOPBP1</i> | 3:133372361 | Asian | STAD | NA          | 0.807 | . |
| 3:133374172-A/C | <i>TOPBP1</i> | 3:133374172 | White | COAD | NA          | 0.433 | . |
| 3:133374172-A/C | <i>TOPBP1</i> | 3:133374172 | Asian | COAD | NA          | 0.433 | . |
| 3:133376643-C/T | <i>TOPBP1</i> | 3:133376643 | White | UCEC | rs778316444 | 0.429 | . |
| 3:14188850-C/A  | <i>XPC</i>    | 3:14188850  | Asian | UCEC | NA          | 0.815 | . |
| 3:14190063-C/T  | <i>XPC</i>    | 3:14190063  | White | UCEC | rs745660242 | 0.217 | . |
| 3:14190105-C/T  | <i>XPC</i>    | 3:14190105  | AA/B  | BRCA | rs766730833 | 0.765 | . |
| 3:14190105-C/T  | <i>XPC</i>    | 3:14190105  | White | BRCA | rs766730833 | 0.765 | . |
| 3:14190340-G/C  | <i>XPC</i>    | 3:14190340  | AA/B  | LUAD | NA          | 0.359 | . |
| 3:14190340-G/C  | <i>XPC</i>    | 3:14190340  | White | LUAD | NA          | 0.359 | . |

|                 |             |             |       |      |              |       |   |
|-----------------|-------------|-------------|-------|------|--------------|-------|---|
| 3:14201311-C/T  | <i>XPC</i>  | 3:14201311  | White | UCEC | rs758687221  | 0.483 | . |
| 3:14208706-T/G  | <i>XPC</i>  | 3:14208706  | White | COAD | NA           | 0.263 | . |
| 3:142172056-G/T | <i>ATR</i>  | 3:142172056 | White | ESCA | NA           | 0.758 | . |
| 3:142172056-G/T | <i>ATR</i>  | 3:142172056 | White | ESCA | NA           | 0.668 | . |
| 3:142172056-G/T | <i>ATR</i>  | 3:142172056 | Asian | ESCA | NA           | 0.758 | . |
| 3:142172056-G/T | <i>ATR</i>  | 3:142172056 | Asian | ESCA | NA           | 0.668 | . |
| 3:142184050-C/G | <i>ATR</i>  | 3:142184050 | AA/B  | CESC | NA           | 0.725 | . |
| 3:142184050-C/G | <i>ATR</i>  | 3:142184050 | AA/B  | CESC | NA           | 0.758 | . |
| 3:142184050-C/G | <i>ATR</i>  | 3:142184050 | White | CESC | NA           | 0.725 | . |
| 3:142184050-C/G | <i>ATR</i>  | 3:142184050 | White | CESC | NA           | 0.758 | . |
| 3:142185258-T/C | <i>ATR</i>  | 3:142185258 | White | UCEC | NA           | 0.885 | . |
| 3:142185258-T/C | <i>ATR</i>  | 3:142185258 | White | UCEC | NA           | 0.532 | . |
| 3:142215271-G/A | <i>ATR</i>  | 3:142215271 | White | COAD | NA           | 0.748 | . |
| 3:142215271-G/A | <i>ATR</i>  | 3:142215271 | AA/B  | COAD | NA           | 0.748 | . |
| 3:142238539-C/T | <i>ATR</i>  | 3:142238539 | White | UCEC | NA           | 0.338 | . |
| 3:142254967-G/A | <i>ATR</i>  | 3:142254967 | White | COAD | NA           | 0.371 | . |
| 3:142257424-C/A | <i>ATR</i>  | 3:142257424 | AA/B  | LUAD | rs1250182269 | 0.692 | . |
| 3:142257424-C/A | <i>ATR</i>  | 3:142257424 | White | LUAD | rs1250182269 | 0.692 | . |
| 3:142259752-C/T | <i>ATR</i>  | 3:142259752 | White | BRCA | NA           | 0.446 | . |
| 3:142259752-C/T | <i>ATR</i>  | 3:142259752 | AA/B  | BRCA | NA           | 0.446 | . |
| 3:142274948-C/A | <i>ATR</i>  | 3:142274948 | Asian | UCEC | NA           | 0.15  | . |
| 3:148757389-G/A | <i>HLTF</i> | 3:148757389 | White | UCEC | NA           | 0.412 | . |
| 3:148759374-C/T | <i>HLTF</i> | 3:148759374 | White | UCEC | NA           | 0.858 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 3:148759431-C/A | <i>HLTF</i>   | 3:148759431 | Asian | UCEC | NA           | 0.437 | . |
| 3:148768095-C/T | <i>HLTF</i>   | 3:148768095 | Asian | UCEC | rs1210280419 | 0.853 | . |
| 3:148789064-C/T | <i>HLTF</i>   | 3:148789064 | AA/B  | LUSC | rs768864078  | 0.928 | . |
| 3:148789064-C/T | <i>HLTF</i>   | 3:148789064 | White | LUSC | rs768864078  | 0.928 | . |
| 3:148789103-T/A | <i>HLTF</i>   | 3:148789103 | White | UCEC | NA           | 0.753 | . |
| 3:148789221-T/G | <i>HLTF</i>   | 3:148789221 | White | STAD | NA           | 0.819 | . |
| 3:148793778-C/A | <i>HLTF</i>   | 3:148793778 | Asian | UCEC | NA           | 0.481 | . |
| 3:186510722-G/A | <i>RFC4</i>   | 3:186510722 | White | COAD | NA           | 0.672 | . |
| 3:186510722-G/A | <i>RFC4</i>   | 3:186510722 | AA/B  | COAD | NA           | 0.672 | . |
| 3:193854426-G/T | <i>HES1</i>   | 3:193854426 | White | UCEC | NA           | 0.923 | . |
| 3:193854799-T/C | <i>HES1</i>   | 3:193854799 | White | ESCA | NA           | 0.958 | . |
| 3:193854799-T/C | <i>HES1</i>   | 3:193854799 | Asian | ESCA | NA           | 0.958 | . |
| 3:193855904-G/A | <i>HES1</i>   | 3:193855904 | White | COAD | NA           | 0.243 | . |
| 3:193855904-G/A | <i>HES1</i>   | 3:193855904 | Asian | COAD | NA           | 0.243 | . |
| 3:196214404-T/C | <i>RNF168</i> | 3:196214404 | Asian | UCEC | NA           | 0.155 | . |
| 3:25656736-A/C  | <i>TOP2B</i>  | 3:25656736  | Asian | BRCA | NA           | 0.852 | . |
| 3:25656736-A/C  | <i>TOP2B</i>  | 3:25656736  | White | BRCA | NA           | 0.852 | . |
| 3:25657005-C/A  | <i>TOP2B</i>  | 3:25657005  | White | STAD | NA           | 0.337 | . |
| 3:25657005-C/A  | <i>TOP2B</i>  | 3:25657005  | Asian | STAD | NA           | 0.337 | . |
| 3:25660275-G/T  | <i>TOP2B</i>  | 3:25660275  | Asian | UCEC | NA           | 0.602 | . |
| 3:25665077-G/A  | <i>TOP2B</i>  | 3:25665077  | AA/B  | LIHC | NA           | 0.62  | . |
| 3:25665815-C/T  | <i>TOP2B</i>  | 3:25665815  | Asian | UCEC | NA           | 0.572 | . |
| 3:25668727-C/T  | <i>TOP2B</i>  | 3:25668727  | White | PAAD | rs757502615  | 0.514 | . |

|                |              |            |       |      |             |       |                        |
|----------------|--------------|------------|-------|------|-------------|-------|------------------------|
| 3:25668727-C/T | <i>TOP2B</i> | 3:25668727 | White | UCEC | rs757502615 | 0.514 | .                      |
| 3:25668727-C/T | <i>TOP2B</i> | 3:25668727 | AA/B  | COAD | rs757502615 | 0.514 | .                      |
| 3:25668727-C/T | <i>TOP2B</i> | 3:25668727 | Asian | PAAD | rs757502615 | 0.514 | .                      |
| 3:25670526-C/A | <i>TOP2B</i> | 3:25670526 | White | UCEC | NA          | 0.407 | .                      |
| 3:25679679-T/C | <i>TOP2B</i> | 3:25679679 | Asian | UCEC | NA          | 0.528 | .                      |
| 3:25683839-C/A | <i>TOP2B</i> | 3:25683839 | Asian | UCEC | NA          | 0.487 | .                      |
| 3:37035149-G/T | <i>MLH1</i>  | 3:37035149 | Asian | UCEC | NA          | 0.685 | .                      |
| 3:37035149-G/T | <i>MLH1</i>  | 3:37035149 | Asian | UCEC | NA          | 0.903 | .                      |
| 3:37067243-G/A | <i>MLH1</i>  | 3:37067243 | White | COAD | rs63750430  | 0.844 | uncertain_significance |
| 3:37067243-G/A | <i>MLH1</i>  | 3:37067243 | White | COAD | rs63750430  | 0.825 | uncertain_significance |
| 3:37067243-G/A | <i>MLH1</i>  | 3:37067243 | Asian | COAD | rs63750430  | 0.844 | uncertain_significance |
| 3:37067243-G/A | <i>MLH1</i>  | 3:37067243 | Asian | COAD | rs63750430  | 0.825 | uncertain_significance |
| 3:37089169-G/C | <i>MLH1</i>  | 3:37089169 | Asian | BRCA | NA          | 0.584 | .                      |
| 3:37089169-G/C | <i>MLH1</i>  | 3:37089169 | Asian | BRCA | NA          | 0.84  | .                      |
| 3:37089169-G/C | <i>MLH1</i>  | 3:37089169 | White | BRCA | NA          | 0.584 | .                      |
| 3:37089169-G/C | <i>MLH1</i>  | 3:37089169 | White | BRCA | NA          | 0.84  | .                      |
| 3:39107333-A/G | <i>WDR48</i> | 3:39107333 | White | STAD | NA          | 0.95  | .                      |
| 3:39107333-A/G | <i>WDR48</i> | 3:39107333 | Asian | STAD | NA          | 0.95  | .                      |
| 3:39108317-G/C | <i>WDR48</i> | 3:39108317 | AA/B  | KIRC | NA          | 0.77  | .                      |

|                |                |            |       |      |             |       |   |
|----------------|----------------|------------|-------|------|-------------|-------|---|
| 3:39108317-G/C | <i>WDR48</i>   | 3:39108317 | White | KIRC | NA          | 0.77  | . |
| 3:39111231-C/T | <i>WDR48</i>   | 3:39111231 | White | COAD | rs576224342 | 0.373 | . |
| 3:39111231-C/T | <i>WDR48</i>   | 3:39111231 | AA/B  | COAD | rs576224342 | 0.373 | . |
| 3:39125732-C/A | <i>WDR48</i>   | 3:39125732 | Asian | UCEC | NA          | 0.504 | . |
| 3:47651784-G/A | <i>SMARCC1</i> | 3:47651784 | White | STAD | rs760989176 | 0.335 | . |
| 3:47651784-G/A | <i>SMARCC1</i> | 3:47651784 | Asian | STAD | rs760989176 | 0.335 | . |
| 3:47704027-C/T | <i>SMARCC1</i> | 3:47704027 | White | UCEC | NA          | 0.533 | . |
| 3:47718187-T/C | <i>SMARCC1</i> | 3:47718187 | Asian | UCEC | rs779079454 | 0.525 | . |
| 3:47752239-A/C | <i>SMARCC1</i> | 3:47752239 | Asian | UCEC | NA          | 0.48  | . |
| 3:47779562-C/T | <i>SMARCC1</i> | 3:47779562 | White | STAD | NA          | 0.4   | . |
| 3:48200506-G/A | <i>CDC25A</i>  | 3:48200506 | White | UCEC | rs766101355 | 0.607 | . |
| 3:48200521-C/A | <i>CDC25A</i>  | 3:48200521 | AA/B  | CESC | NA          | 0.244 | . |
| 3:48200521-C/A | <i>CDC25A</i>  | 3:48200521 | White | CESC | NA          | 0.244 | . |
| 3:48224493-G/C | <i>CDC25A</i>  | 3:48224493 | White | CESC | NA          | 0.228 | . |
| 3:48224493-G/C | <i>CDC25A</i>  | 3:48224493 | AA/B  | CESC | NA          | 0.228 | . |
| 3:48224499-G/A | <i>CDC25A</i>  | 3:48224499 | White | CESC | NA          | 0.45  | . |
| 3:48224499-G/A | <i>CDC25A</i>  | 3:48224499 | AA/B  | CESC | NA          | 0.45  | . |
| 3:48226174-C/A | <i>CDC25A</i>  | 3:48226174 | White | COAD | NA          | 0.417 | . |
| 3:48493222-G/C | <i>ATRIP</i>   | 3:48493222 | AA/B  | BRCA | NA          | 0.177 | . |
| 3:48493222-G/C | <i>ATRIP</i>   | 3:48493222 | White | BRCA | NA          | 0.177 | . |
| 3:48506335-C/T | <i>ATRIP</i>   | 3:48506335 | White | UCEC | rs752926281 | 0.633 | . |
| 3:51979583-C/T | <i>PARP3</i>   | 3:51979583 | Asian | STAD | NA          | 0.154 | . |
| 3:51979583-C/T | <i>PARP3</i>   | 3:51979583 | White | STAD | NA          | 0.154 | . |

|                |               |            |       |      |             |       |            |
|----------------|---------------|------------|-------|------|-------------|-------|------------|
| 3:51979926-C/T | <i>PARP3</i>  | 3:51979926 | Asian | UCEC | NA          | 0.093 | .          |
| 3:52437675-C/T | <i>BAP1</i>   | 3:52437675 | White | UCEC | NA          | 0.31  | .          |
| 3:52441201-G/A | <i>BAP1</i>   | 3:52441201 | White | UCEC | NA          | 0.773 | .          |
| 3:52441201-G/T | <i>BAP1</i>   | 3:52441201 | Asian | STAD | NA          | 0.771 | .          |
| 3:52441201-G/T | <i>BAP1</i>   | 3:52441201 | White | STAD | NA          | 0.771 | .          |
| 3:52441235-G/A | <i>BAP1</i>   | 3:52441235 | White | LUAD | NA          | 0.549 | .          |
| 3:52441235-G/A | <i>BAP1</i>   | 3:52441235 | AA/B  | LUAD | NA          | 0.549 | .          |
| 3:52441246-G/T | <i>BAP1</i>   | 3:52441246 | Asian | STAD | NA          | 0.556 | .          |
| 3:52441246-G/T | <i>BAP1</i>   | 3:52441246 | White | STAD | NA          | 0.556 | .          |
| 3:52442072-T/C | <i>BAP1</i>   | 3:52442072 | AA/B  | BRCA | rs375129361 | 0.829 | pathogenic |
| 3:52442072-T/C | <i>BAP1</i>   | 3:52442072 | White | BRCA | rs375129361 | 0.829 | pathogenic |
| 3:52442525-C/A | <i>BAP1</i>   | 3:52442525 | White | COAD | NA          | 0.321 | .          |
| 3:52442600-G/C | <i>BAP1</i>   | 3:52442600 | AA/B  | BRCA | NA          | 0.645 | .          |
| 3:52442600-G/C | <i>BAP1</i>   | 3:52442600 | White | BRCA | NA          | 0.645 | .          |
| 3:52443600-T/G | <i>BAP1</i>   | 3:52443600 | AA/B  | KIRC | NA          | 0.807 | .          |
| 3:52443600-T/G | <i>BAP1</i>   | 3:52443600 | White | KIRC | NA          | 0.807 | .          |
| 3:73114050-A/C | <i>PPP4R2</i> | 3:73114050 | Asian | UCEC | NA          | 0.342 | .          |
| 3:73114050-A/C | <i>PPP4R2</i> | 3:73114050 | Asian | UCEC | NA          | 0.222 | .          |
| 3:73114220-G/T | <i>PPP4R2</i> | 3:73114220 | White | UCEC | NA          | 0.177 | .          |
| 3:73114220-G/T | <i>PPP4R2</i> | 3:73114220 | White | UCEC | NA          | 0.14  | .          |
| 3:8977615-T/C  | <i>RAD18</i>  | 3:8977615  | White | THYM | NA          | 0.821 | .          |
| 3:8977615-T/C  | <i>RAD18</i>  | 3:8977615  | Asian | THYM | NA          | 0.821 | .          |
| 3:8977636-T/G  | <i>RAD18</i>  | 3:8977636  | Asian | COAD | NA          | 0.119 | .          |

|                 |                |             |       |      |             |       |   |
|-----------------|----------------|-------------|-------|------|-------------|-------|---|
| 3:8977636-T/G   | <i>RAD18</i>   | 3:8977636   | White | COAD | NA          | 0.119 | . |
| 3:8977673-C/A   | <i>RAD18</i>   | 3:8977673   | Asian | UCEC | NA          | 0.339 | . |
| 3:8990233-T/G   | <i>RAD18</i>   | 3:8990233   | White | STAD | NA          | 0.639 | . |
| 3:8990234-T/G   | <i>RAD18</i>   | 3:8990234   | Asian | UCEC | NA          | 0.547 | . |
| 3:9000630-A/G   | <i>RAD18</i>   | 3:9000630   | Asian | STAD | NA          | 0.221 | . |
| 3:9000630-A/G   | <i>RAD18</i>   | 3:9000630   | White | STAD | NA          | 0.221 | . |
| 3:9000667-G/A   | <i>RAD18</i>   | 3:9000667   | White | UCEC | rs907328860 | 0.339 | . |
| 3:9793484-A/G   | <i>OGG1</i>    | 3:9793484   | White | COAD | NA          | 0.901 | . |
| 3:9793484-A/G   | <i>OGG1</i>    | 3:9793484   | White | COAD | NA          | 0.963 | . |
| 3:9793484-A/G   | <i>OGG1</i>    | 3:9793484   | AA/B  | COAD | NA          | 0.901 | . |
| 3:9793484-A/G   | <i>OGG1</i>    | 3:9793484   | AA/B  | COAD | NA          | 0.963 | . |
| 4:1343439-C/T   | <i>UVSSA</i>   | 4:1343439   | White | COAD | NA          | 0.582 | . |
| 4:1343439-C/T   | <i>UVSSA</i>   | 4:1343439   | White | UCEC | NA          | 0.582 | . |
| 4:1343439-C/T   | <i>UVSSA</i>   | 4:1343439   | AA/B  | COAD | NA          | 0.582 | . |
| 4:1343542-G/T   | <i>UVSSA</i>   | 4:1343542   | Asian | ESCA | NA          | 0.252 | . |
| 4:1343542-G/T   | <i>UVSSA</i>   | 4:1343542   | White | ESCA | NA          | 0.252 | . |
| 4:1345537-C/G   | <i>UVSSA</i>   | 4:1345537   | White | STAD | NA          | 0.181 | . |
| 4:1345537-C/G   | <i>UVSSA</i>   | 4:1345537   | Asian | STAD | NA          | 0.181 | . |
| 4:1348915-G/A   | <i>UVSSA</i>   | 4:1348915   | Asian | STAD | rs563763967 | 0.253 | . |
| 4:1348915-G/A   | <i>UVSSA</i>   | 4:1348915   | White | STAD | rs563763967 | 0.253 | . |
| 4:1369233-C/G   | <i>UVSSA</i>   | 4:1369233   | White | ESCA | NA          | 0.479 | . |
| 4:1369233-C/G   | <i>UVSSA</i>   | 4:1369233   | Asian | ESCA | NA          | 0.479 | . |
| 4:144445525-G/A | <i>SMARCA5</i> | 4:144445525 | White | UCEC | NA          | 0.723 | . |

|                 |                |             |       |      |              |       |   |
|-----------------|----------------|-------------|-------|------|--------------|-------|---|
| 4:144456093-G/T | <i>SMARCA5</i> | 4:144456093 | White | COAD | NA           | 0.734 | . |
| 4:144456093-G/T | <i>SMARCA5</i> | 4:144456093 | AA/B  | COAD | NA           | 0.734 | . |
| 4:144459999-C/T | <i>SMARCA5</i> | 4:144459999 | Asian | STAD | rs778415632  | 0.75  | . |
| 4:144459999-C/T | <i>SMARCA5</i> | 4:144459999 | White | STAD | rs778415632  | 0.75  | . |
| 4:144464730-G/T | <i>SMARCA5</i> | 4:144464730 | White | UCEC | NA           | 0.62  | . |
| 4:144465105-G/T | <i>SMARCA5</i> | 4:144465105 | White | UCEC | NA           | 0.908 | . |
| 4:144469166-G/A | <i>SMARCA5</i> | 4:144469166 | White | COAD | NA           | 0.813 | . |
| 4:154271274-C/G | <i>MND1</i>    | 4:154271274 | AA/B  | BRCA | NA           | 0.178 | . |
| 4:154271274-C/G | <i>MND1</i>    | 4:154271274 | White | BRCA | NA           | 0.178 | . |
| 4:154318378-G/A | <i>MND1</i>    | 4:154318378 | White | UCEC | rs751477709  | 0.681 | . |
| 4:154335936-G/T | <i>MND1</i>    | 4:154335936 | Asian | UCEC | NA           | 0.433 | . |
| 4:154335996-A/G | <i>MND1</i>    | 4:154335996 | Asian | STAD | NA           | 0.651 | . |
| 4:154335996-A/G | <i>MND1</i>    | 4:154335996 | White | STAD | NA           | 0.651 | . |
| 4:155458475-T/C | <i>PLRG1</i>   | 4:155458475 | White | STAD | NA           | 0.942 | . |
| 4:155458475-T/C | <i>PLRG1</i>   | 4:155458475 | Asian | STAD | NA           | 0.942 | . |
| 4:155458479-C/A | <i>PLRG1</i>   | 4:155458479 | White | UCEC | NA           | 0.508 | . |
| 4:155461784-C/T | <i>PLRG1</i>   | 4:155461784 | White | BRCA | rs1280751067 | 0.367 | . |
| 4:155461784-C/T | <i>PLRG1</i>   | 4:155461784 | Asian | BRCA | rs1280751067 | 0.367 | . |
| 4:155461951-G/T | <i>PLRG1</i>   | 4:155461951 | Asian | UCEC | NA           | 0.488 | . |
| 4:178231192-G/A | <i>NEIL3</i>   | 4:178231192 | White | STAD | rs1263191299 | 0.249 | . |
| 4:178231192-G/A | <i>NEIL3</i>   | 4:178231192 | Asian | STAD | rs1263191299 | 0.249 | . |
| 4:178262667-A/C | <i>NEIL3</i>   | 4:178262667 | Asian | UCEC | NA           | 0.249 | . |
| 4:178262720-C/T | <i>NEIL3</i>   | 4:178262720 | AA/B  | COAD | rs762418261  | 0.432 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 4:178262720-C/T | <i>NEIL3</i> | 4:178262720 | White | COAD | rs762418261 | 0.432 | . |
| 4:178262744-A/T | <i>NEIL3</i> | 4:178262744 | White | STAD | NA          | 0.266 | . |
| 4:178262744-A/T | <i>NEIL3</i> | 4:178262744 | Asian | STAD | NA          | 0.266 | . |
| 4:178274525-A/G | <i>NEIL3</i> | 4:178274525 | Asian | STAD | NA          | 0.127 | . |
| 4:178274525-A/G | <i>NEIL3</i> | 4:178274525 | White | STAD | NA          | 0.127 | . |
| 4:178283483-G/A | <i>NEIL3</i> | 4:178283483 | White | STAD | rs149552701 | 0.467 | . |
| 4:2073999-C/T   | <i>POLN</i>  | 4:2073999   | Asian | STAD | rs530335133 | 0.776 | . |
| 4:2073999-C/T   | <i>POLN</i>  | 4:2073999   | White | STAD | rs530335133 | 0.776 | . |
| 4:2077220-A/G   | <i>POLN</i>  | 4:2077220   | White | STAD | NA          | 0.936 | . |
| 4:2077220-A/G   | <i>POLN</i>  | 4:2077220   | White | STAD | NA          | 0.596 | . |
| 4:2077220-A/G   | <i>POLN</i>  | 4:2077220   | Asian | STAD | NA          | 0.936 | . |
| 4:2077220-A/G   | <i>POLN</i>  | 4:2077220   | Asian | STAD | NA          | 0.596 | . |
| 4:2097609-C/A   | <i>POLN</i>  | 4:2097609   | White | UCEC | NA          | 0.327 | . |
| 4:2097609-C/A   | <i>POLN</i>  | 4:2097609   | White | UCEC | NA          | 0.787 | . |
| 4:2158559-T/A   | <i>POLN</i>  | 4:2158559   | White | UCEC | NA          | 0.861 | . |
| 4:2172450-G/A   | <i>POLN</i>  | 4:2172450   | White | STAD | NA          | 0.126 | . |
| 4:39304373-C/T  | <i>RFC1</i>  | 4:39304373  | White | UCEC | rs199688793 | 0.402 | . |
| 4:39306472-T/A  | <i>RFC1</i>  | 4:39306472  | White | ESCA | NA          | 0.449 | . |
| 4:39306472-T/A  | <i>RFC1</i>  | 4:39306472  | Asian | ESCA | NA          | 0.449 | . |
| 4:39310299-C/A  | <i>RFC1</i>  | 4:39310299  | AA/B  | LIHC | NA          | 0.69  | . |
| 4:84342795-A/C  | <i>HELQ</i>  | 4:84342795  | White | UCEC | rs759942417 | 0.784 | . |
| 4:84342852-G/A  | <i>HELQ</i>  | 4:84342852  | White | COAD | NA          | 0.717 | . |
| 4:84348790-G/T  | <i>HELQ</i>  | 4:84348790  | White | COAD | NA          | 0.565 | . |

|                 |                 |             |       |      |              |       |   |
|-----------------|-----------------|-------------|-------|------|--------------|-------|---|
| 4:84350853-A/C  | <i>HELQ</i>     | 4:84350853  | White | COAD | NA           | 0.399 | . |
| 4:84368010-A/T  | <i>HELQ</i>     | 4:84368010  | White | BRCA | NA           | 0.742 | . |
| 4:84368010-A/T  | <i>HELQ</i>     | 4:84368010  | Asian | BRCA | NA           | 0.742 | . |
| 4:84368140-C/T  | <i>HELQ</i>     | 4:84368140  | AA/B  | SARC | NA           | 0.588 | . |
| 4:84368140-C/T  | <i>HELQ</i>     | 4:84368140  | White | SARC | NA           | 0.588 | . |
| 4:84369965-G/T  | <i>HELQ</i>     | 4:84369965  | Asian | UCEC | NA           | 0.358 | . |
| 4:84370084-G/A  | <i>HELQ</i>     | 4:84370084  | Asian | UCEC | rs764392725  | 0.274 | . |
| 4:84370084-G/T  | <i>HELQ</i>     | 4:84370084  | White | COAD | NA           | 0.258 | . |
| 4:84383770-C/T  | <i>FAM175A</i>  | 4:84383770  | White | COAD | rs201627097  | 0.199 | . |
| 4:84383770-C/T  | <i>FAM175A</i>  | 4:84383770  | AA/B  | COAD | rs201627097  | 0.199 | . |
| 4:84383771-G/A  | <i>FAM175A</i>  | 4:84383771  | Asian | STAD | rs1345611154 | 0.234 | . |
| 4:84383771-G/A  | <i>FAM175A</i>  | 4:84383771  | White | STAD | rs1345611154 | 0.234 | . |
| 4:95171918-C/T  | <i>SMARCAD1</i> | 4:95171918  | White | UCEC | NA           | 0.258 | . |
| 4:95174040-A/C  | <i>SMARCAD1</i> | 4:95174040  | Asian | COAD | NA           | 0.709 | . |
| 4:95174040-A/C  | <i>SMARCAD1</i> | 4:95174040  | White | COAD | NA           | 0.709 | . |
| 4:95174133-G/A  | <i>SMARCAD1</i> | 4:95174133  | White | LUAD | NA           | 0.798 | . |
| 4:95174133-G/A  | <i>SMARCAD1</i> | 4:95174133  | AA/B  | LUAD | NA           | 0.798 | . |
| 4:95185970-T/A  | <i>SMARCAD1</i> | 4:95185970  | White | STAD | NA           | 0.795 | . |
| 4:95185970-T/A  | <i>SMARCAD1</i> | 4:95185970  | Asian | STAD | NA           | 0.795 | . |
| 4:95199614-A/G  | <i>SMARCAD1</i> | 4:95199614  | AA/B  | KIRC | NA           | 0.814 | . |
| 4:95199614-A/G  | <i>SMARCAD1</i> | 4:95199614  | White | KIRC | NA           | 0.814 | . |
| 4:95200148-C/T  | <i>SMARCAD1</i> | 4:95200148  | White | UCEC | NA           | 0.799 | . |
| 5:131893034-G/T | <i>RAD50</i>    | 5:131893034 | White | COAD | NA           | 0.287 | . |

|                 |               |             |       |      |                |       |                        |
|-----------------|---------------|-------------|-------|------|----------------|-------|------------------------|
| 5:131895051-G/A | <i>RAD50</i>  | 5:131895051 | White | UCEC | rs370769989    | 0.443 | uncertain_significance |
| 5:131915135-G/T | <i>RAD50</i>  | 5:131915135 | White | LUAD | NA             | 0.589 | .                      |
| 5:131915135-G/T | <i>RAD50</i>  | 5:131915135 | AA/B  | LUAD | NA             | 0.589 | .                      |
| 5:131930676-G/A | <i>RAD50</i>  | 5:131930676 | White | UCEC | NA             | 0.131 | .                      |
| 5:131931471-C/T | <i>RAD50</i>  | 5:131931471 | Asian | STAD | rs753002904    | 0.159 | .                      |
| 5:131931471-C/T | <i>RAD50</i>  | 5:131931471 | White | STAD | rs753002904    | 0.159 | .                      |
| 5:131951732-G/T | <i>RAD50</i>  | 5:131951732 | White | UCEC | NA             | 0.301 | .                      |
| 5:137621728-A/G | <i>CDC25C</i> | 5:137621728 | AA/B  | LUAD | NA             | 0.665 | .                      |
| 5:137621728-A/G | <i>CDC25C</i> | 5:137621728 | AA/B  | LUAD | NA             | 0.565 | .                      |
| 5:137621728-A/G | <i>CDC25C</i> | 5:137621728 | White | LUAD | NA             | 0.665 | .                      |
| 5:137621728-A/G | <i>CDC25C</i> | 5:137621728 | White | LUAD | NA             | 0.565 | .                      |
| 5:137622189-C/T | <i>CDC25C</i> | 5:137622189 | White | COAD | rs200759602    | 0.08  | .                      |
| 5:137802793-G/A | <i>EGR1</i>   | 5:137802793 | AA/B  | LUAD | NA             | 0.207 | .                      |
| 5:137802793-G/A | <i>EGR1</i>   | 5:137802793 | White | LUAD | NA             | 0.207 | .                      |
| 5:176385134-C/G | <i>UIMC1</i>  | 5:176385134 | AA/B  | BRCA | NA             | 0.072 | .                      |
| 5:176385134-C/G | <i>UIMC1</i>  | 5:176385134 | White | BRCA | NA             | 0.072 | .                      |
| 5:176409580-C/T | <i>UIMC1</i>  | 5:176409580 | Asian | UCEC | rs548830338    | 0.035 | .                      |
| 5:34908989-G/A  | <i>RAD1</i>   | 5:34908989  | Asian | UCEC | 5:34908989_G/A | 0.713 | .                      |
| 5:34911836-G/A  | <i>RAD1</i>   | 5:34911836  | AA/B  | LUSC | NA             | 0.543 | .                      |
| 5:34911836-G/A  | <i>RAD1</i>   | 5:34911836  | White | LUSC | NA             | 0.543 | .                      |
| 5:60195503-C/G  | <i>ERCC8</i>  | 5:60195503  | White | LUSC | NA             | 0.487 | .                      |
| 5:60195503-C/G  | <i>ERCC8</i>  | 5:60195503  | AA/B  | LUSC | NA             | 0.487 | .                      |

|                |              |            |       |      |             |       |   |
|----------------|--------------|------------|-------|------|-------------|-------|---|
| 5:68531245-G/T | <i>CDK7</i>  | 5:68531245 | Asian | UCEC | NA          | 0.601 | . |
| 5:68670485-G/A | <i>RAD17</i> | 5:68670485 | AA/B  | BRCA | NA          | 0.127 | . |
| 5:68670485-G/A | <i>RAD17</i> | 5:68670485 | White | BRCA | NA          | 0.127 | . |
| 5:68677857-G/T | <i>RAD17</i> | 5:68677857 | Asian | UCEC | NA          | 0.116 | . |
| 5:68680719-G/A | <i>RAD17</i> | 5:68680719 | White | CESC | NA          | 0.572 | . |
| 5:68680719-G/A | <i>RAD17</i> | 5:68680719 | AA/B  | CESC | NA          | 0.572 | . |
| 5:68681898-C/A | <i>RAD17</i> | 5:68681898 | White | STAD | NA          | 0.093 | . |
| 5:68684910-G/T | <i>RAD17</i> | 5:68684910 | AA/B  | COAD | NA          | 0.641 | . |
| 5:68684910-G/T | <i>RAD17</i> | 5:68684910 | White | COAD | NA          | 0.641 | . |
| 5:68684956-G/T | <i>RAD17</i> | 5:68684956 | Asian | UCEC | NA          | 0.302 | . |
| 5:68695918-T/G | <i>RAD17</i> | 5:68695918 | AA/B  | LUAD | NA          | 0.441 | . |
| 5:68695918-T/G | <i>RAD17</i> | 5:68695918 | White | LUAD | NA          | 0.441 | . |
| 5:74869615-G/A | <i>POLK</i>  | 5:74869615 | White | STAD | NA          | 0.753 | . |
| 5:74877213-G/A | <i>POLK</i>  | 5:74877213 | White | UCEC | rs142203892 | 0.528 | . |
| 5:74877231-C/T | <i>POLK</i>  | 5:74877231 | White | COAD | rs200548318 | 0.865 | . |
| 5:74879241-A/C | <i>POLK</i>  | 5:74879241 | Asian | UCEC | NA          | 0.887 | . |
| 5:74880598-G/A | <i>POLK</i>  | 5:74880598 | Asian | STAD | NA          | 0.967 | . |
| 5:74880598-G/A | <i>POLK</i>  | 5:74880598 | White | STAD | NA          | 0.967 | . |
| 5:74882873-A/T | <i>POLK</i>  | 5:74882873 | White | COAD | NA          | 0.616 | . |
| 5:74882873-A/T | <i>POLK</i>  | 5:74882873 | AA/B  | COAD | NA          | 0.616 | . |
| 5:79966006-C/T | <i>MSH3</i>  | 5:79966006 | Asian | STAD | rs748207601 | 0.377 | . |
| 5:79966006-C/T | <i>MSH3</i>  | 5:79966006 | White | STAD | rs748207601 | 0.377 | . |
| 5:79966082-G/A | <i>MSH3</i>  | 5:79966082 | White | COAD | NA          | 0.639 | . |

|                 |              |             |       |      |                |       |   |
|-----------------|--------------|-------------|-------|------|----------------|-------|---|
| 5:79966082-G/A  | <i>MSH3</i>  | 5:79966082  | Asian | COAD | NA             | 0.639 | . |
| 5:80021297-G/A  | <i>MSH3</i>  | 5:80021297  | White | UCEC | rs963234468    | 0.77  | . |
| 5:80063766-G/T  | <i>MSH3</i>  | 5:80063766  | White | COAD | NA             | 0.608 | . |
| 5:80064756-T/A  | <i>MSH3</i>  | 5:80064756  | AA/B  | BRCA | NA             | 0.449 | . |
| 5:80064756-T/A  | <i>MSH3</i>  | 5:80064756  | White | BRCA | NA             | 0.449 | . |
| 5:80109434-G/T  | <i>MSH3</i>  | 5:80109434  | White | LUAD | NA             | 0.988 | . |
| 5:80109434-G/T  | <i>MSH3</i>  | 5:80109434  | AA/B  | LUAD | NA             | 0.988 | . |
| 5:80109451-A/C  | <i>MSH3</i>  | 5:80109451  | White | STAD | rs763041578    | 0.948 | . |
| 5:82406919-G/T  | <i>XRCC4</i> | 5:82406919  | White | UCEC | NA             | 0.27  | . |
| 5:82491728-T/C  | <i>XRCC4</i> | 5:82491728  | White | STAD | 5:82491728_T/C | 0.188 | . |
| 5:86700748-G/A  | <i>CCNH</i>  | 5:86700748  | White | UCEC | rs145378845    | 0.702 | . |
| 5:86703989-A/G  | <i>CCNH</i>  | 5:86703989  | Asian | UCEC | rs758248932    | 0.448 | . |
| 5:86705156-G/A  | <i>CCNH</i>  | 5:86705156  | White | UCEC | rs750420341    | 0.608 | . |
| 6:100957932-C/T | <i>ASCC3</i> | 6:100957932 | Asian | STAD | rs201205349    | 0.557 | . |
| 6:100957932-C/T | <i>ASCC3</i> | 6:100957932 | White | STAD | rs201205349    | 0.557 | . |
| 6:101073115-C/T | <i>ASCC3</i> | 6:101073115 | White | BRCA | NA             | 0.594 | . |
| 6:101073115-C/T | <i>ASCC3</i> | 6:101073115 | AA/B  | BRCA | NA             | 0.594 | . |
| 6:101073157-G/A | <i>ASCC3</i> | 6:101073157 | AA/B  | BRCA | rs757716813    | 0.797 | . |
| 6:101073157-G/A | <i>ASCC3</i> | 6:101073157 | White | BRCA | rs757716813    | 0.797 | . |
| 6:101075555-C/T | <i>ASCC3</i> | 6:101075555 | Asian | UCEC | rs148742449    | 0.941 | . |
| 6:101075816-A/C | <i>ASCC3</i> | 6:101075816 | Asian | UCEC | NA             | 0.572 | . |
| 6:101076966-C/A | <i>ASCC3</i> | 6:101076966 | White | STAD | NA             | 0.272 | . |
| 6:101076966-C/A | <i>ASCC3</i> | 6:101076966 | Asian | STAD | NA             | 0.272 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 6:101086686-G/C | <i>ASCC3</i> | 6:101086686 | White | STAD | NA          | 0.356 | . |
| 6:101086686-G/C | <i>ASCC3</i> | 6:101086686 | Asian | STAD | NA          | 0.356 | . |
| 6:101090570-A/C | <i>ASCC3</i> | 6:101090570 | White | COAD | NA          | 0.602 | . |
| 6:101090570-A/C | <i>ASCC3</i> | 6:101090570 | AA/B  | COAD | NA          | 0.602 | . |
| 6:101091945-T/C | <i>ASCC3</i> | 6:101091945 | White | STAD | NA          | 0.328 | . |
| 6:101095148-T/G | <i>ASCC3</i> | 6:101095148 | Asian | UCEC | NA          | 0.221 | . |
| 6:101166000-C/T | <i>ASCC3</i> | 6:101166000 | White | STAD | rs142555952 | 0.893 | . |
| 6:101214491-C/T | <i>ASCC3</i> | 6:101214491 | Asian | STAD | NA          | 0.524 | . |
| 6:101214491-C/T | <i>ASCC3</i> | 6:101214491 | White | STAD | NA          | 0.524 | . |
| 6:111631223-C/T | <i>REV3L</i> | 6:111631223 | AA/B  | COAD | rs749887147 | 0.419 | . |
| 6:111631223-C/T | <i>REV3L</i> | 6:111631223 | White | COAD | rs749887147 | 0.419 | . |
| 6:111632452-C/T | <i>REV3L</i> | 6:111632452 | White | STAD | rs374701728 | 0.359 | . |
| 6:111632452-C/T | <i>REV3L</i> | 6:111632452 | Asian | STAD | rs374701728 | 0.359 | . |
| 6:111636522-G/A | <i>REV3L</i> | 6:111636522 | Asian | STAD | NA          | 0.273 | . |
| 6:111636522-G/A | <i>REV3L</i> | 6:111636522 | White | STAD | NA          | 0.273 | . |
| 6:111636577-C/T | <i>REV3L</i> | 6:111636577 | White | UCEC | NA          | 0.427 | . |
| 6:111650820-G/A | <i>REV3L</i> | 6:111650820 | Asian | STAD | rs376298082 | 0.382 | . |
| 6:111650820-G/A | <i>REV3L</i> | 6:111650820 | White | STAD | rs376298082 | 0.382 | . |
| 6:111650832-C/T | <i>REV3L</i> | 6:111650832 | White | UCEC | rs141338934 | 0.253 | . |
| 6:111650877-A/G | <i>REV3L</i> | 6:111650877 | Asian | UCEC | NA          | 0.48  | . |
| 6:111680142-C/A | <i>REV3L</i> | 6:111680142 | White | STAD | NA          | 0.634 | . |
| 6:111688861-C/A | <i>REV3L</i> | 6:111688861 | AA/B  | KIRC | NA          | 0.097 | . |
| 6:111688861-C/A | <i>REV3L</i> | 6:111688861 | White | KIRC | NA          | 0.097 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 6:111694807-C/T | <i>REV3L</i> | 6:111694807 | White | STAD | rs776259034 | 0.262 | . |
| 6:111696389-T/C | <i>REV3L</i> | 6:111696389 | White | BRCA | NA          | 0.139 | . |
| 6:111696389-T/C | <i>REV3L</i> | 6:111696389 | Asian | BRCA | NA          | 0.139 | . |
| 6:111696655-G/T | <i>REV3L</i> | 6:111696655 | White | COAD | NA          | 0.187 | . |
| 6:111696655-G/T | <i>REV3L</i> | 6:111696655 | Asian | COAD | NA          | 0.187 | . |
| 6:111701366-C/T | <i>REV3L</i> | 6:111701366 | Asian | STAD | NA          | 0.151 | . |
| 6:111701366-C/T | <i>REV3L</i> | 6:111701366 | White | STAD | NA          | 0.151 | . |
| 6:111726690-C/T | <i>REV3L</i> | 6:111726690 | White | UCEC | NA          | 0.309 | . |
| 6:146214462-G/T | <i>SHPRH</i> | 6:146214462 | White | UCEC | NA          | 0.823 | . |
| 6:146240548-C/G | <i>SHPRH</i> | 6:146240548 | White | STAD | NA          | 0.626 | . |
| 6:146240548-C/G | <i>SHPRH</i> | 6:146240548 | Asian | STAD | NA          | 0.626 | . |
| 6:146242419-C/G | <i>SHPRH</i> | 6:146242419 | White | BRCA | NA          | 0.501 | . |
| 6:146242419-C/G | <i>SHPRH</i> | 6:146242419 | AA/B  | BRCA | NA          | 0.501 | . |
| 6:146256096-C/A | <i>SHPRH</i> | 6:146256096 | White | LUAD | NA          | 0.868 | . |
| 6:146256096-C/A | <i>SHPRH</i> | 6:146256096 | AA/B  | LUAD | NA          | 0.868 | . |
| 6:146256106-C/A | <i>SHPRH</i> | 6:146256106 | Asian | STAD | NA          | 0.733 | . |
| 6:146256106-C/A | <i>SHPRH</i> | 6:146256106 | White | STAD | NA          | 0.733 | . |
| 6:146256140-T/A | <i>SHPRH</i> | 6:146256140 | White | LUAD | NA          | 0.785 | . |
| 6:146256140-T/A | <i>SHPRH</i> | 6:146256140 | AA/B  | LUAD | NA          | 0.785 | . |
| 6:146261936-G/T | <i>SHPRH</i> | 6:146261936 | White | SARC | NA          | 0.941 | . |
| 6:146261936-G/T | <i>SHPRH</i> | 6:146261936 | AA/B  | SARC | NA          | 0.941 | . |
| 6:152163841-T/C | <i>ESR1</i>  | 6:152163841 | White | UCEC | NA          | 0.981 | . |
| 6:152201865-G/A | <i>ESR1</i>  | 6:152201865 | Asian | STAD | NA          | 0.963 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 6:152201865-G/A | <i>ESR1</i>   | 6:152201865 | Asian | STAD | NA           | 0.772 | . |
| 6:152201865-G/A | <i>ESR1</i>   | 6:152201865 | White | STAD | NA           | 0.963 | . |
| 6:152201865-G/A | <i>ESR1</i>   | 6:152201865 | White | STAD | NA           | 0.772 | . |
| 6:24651150-A/C  | <i>TDP2</i>   | 6:24651150  | Asian | UCEC | NA           | 0.7   | . |
| 6:30670606-C/T  | <i>MDC1</i>   | 6:30670606  | White | UCEC | rs1371318631 | 0.545 | . |
| 6:30671314-C/A  | <i>MDC1</i>   | 6:30671314  | AA/B  | LUAD | NA           | 0.087 | . |
| 6:30671314-C/A  | <i>MDC1</i>   | 6:30671314  | White | LUAD | NA           | 0.087 | . |
| 6:30671903-G/T  | <i>MDC1</i>   | 6:30671903  | Asian | UCEC | rs758783364  | 0.082 | . |
| 6:30672029-C/A  | <i>MDC1</i>   | 6:30672029  | Asian | STAD | NA           | 0.071 | . |
| 6:30672029-C/A  | <i>MDC1</i>   | 6:30672029  | White | STAD | NA           | 0.071 | . |
| 6:30679962-G/T  | <i>MDC1</i>   | 6:30679962  | AA/B  | KIRP | NA           | 0.099 | . |
| 6:30679962-G/T  | <i>MDC1</i>   | 6:30679962  | White | KIRP | NA           | 0.099 | . |
| 6:30680815-C/A  | <i>MDC1</i>   | 6:30680815  | Asian | UCEC | NA           | 0.139 | . |
| 6:30880141-C/T  | <i>GTF2H4</i> | 6:30880141  | White | CESC | NA           | 0.427 | . |
| 6:30881608-C/A  | <i>GTF2H4</i> | 6:30881608  | White | STAD | NA           | 0.156 | . |
| 6:30881608-C/A  | <i>GTF2H4</i> | 6:30881608  | Asian | STAD | NA           | 0.156 | . |
| 6:35423809-G/T  | <i>FANCE</i>  | 6:35423809  | AA/B  | LUAD | NA           | 0.06  | . |
| 6:35423809-G/T  | <i>FANCE</i>  | 6:35423809  | White | LUAD | NA           | 0.06  | . |
| 6:35423873-C/T  | <i>FANCE</i>  | 6:35423873  | AA/B  | COAD | rs763151358  | 0.15  | . |
| 6:35425693-G/T  | <i>FANCE</i>  | 6:35425693  | Asian | THCA | NA           | 0.154 | . |
| 6:35425693-G/T  | <i>FANCE</i>  | 6:35425693  | White | THCA | NA           | 0.154 | . |
| 6:35434088-C/A  | <i>FANCE</i>  | 6:35434088  | White | UCEC | NA           | 0.214 | . |
| 6:36334674-G/C  | <i>ETV7</i>   | 6:36334674  | AA/B  | BRCA | NA           | 0.191 | . |

|                |              |            |       |      |             |       |   |
|----------------|--------------|------------|-------|------|-------------|-------|---|
| 6:36334674-G/C | <i>ETV7</i>  | 6:36334674 | White | BRCA | NA          | 0.191 | . |
| 6:36334709-C/T | <i>ETV7</i>  | 6:36334709 | White | UCEC | rs768642185 | 0.784 | . |
| 6:36336846-A/G | <i>ETV7</i>  | 6:36336846 | White | UCEC | NA          | 0.474 | . |
| 6:36339127-G/A | <i>ETV7</i>  | 6:36339127 | Asian | UCEC | NA          | 0.215 | . |
| 6:36343764-C/G | <i>ETV7</i>  | 6:36343764 | AA/B  | LUAD | NA          | 0.286 | . |
| 6:36343764-C/G | <i>ETV7</i>  | 6:36343764 | White | LUAD | NA          | 0.286 | . |
| 6:37339288-G/T | <i>RNF8</i>  | 6:37339288 | AA/B  | LGG  | NA          | 0.064 | . |
| 6:37339288-G/T | <i>RNF8</i>  | 6:37339288 | AA/B  | LGG  | NA          | 0.201 | . |
| 6:37339288-G/T | <i>RNF8</i>  | 6:37339288 | White | LGG  | NA          | 0.064 | . |
| 6:37339288-G/T | <i>RNF8</i>  | 6:37339288 | White | LGG  | NA          | 0.201 | . |
| 6:37344732-G/A | <i>RNF8</i>  | 6:37344732 | White | COAD | rs769385134 | 0.32  | . |
| 6:37344732-G/A | <i>RNF8</i>  | 6:37344732 | White | COAD | rs769385134 | 0.348 | . |
| 6:37349065-A/C | <i>RNF8</i>  | 6:37349065 | White | COAD | NA          | 0.505 | . |
| 6:43550169-A/T | <i>POLH</i>  | 6:43550169 | AA/B  | LUAD | NA          | 0.839 | . |
| 6:43550169-A/T | <i>POLH</i>  | 6:43550169 | White | LUAD | NA          | 0.839 | . |
| 6:43578327-C/T | <i>POLH</i>  | 6:43578327 | White | UCEC | rs147564503 | 0.398 | . |
| 6:43578345-C/T | <i>POLH</i>  | 6:43578345 | White | COAD | NA          | 0.255 | . |
| 6:43578345-C/T | <i>POLH</i>  | 6:43578345 | AA/B  | COAD | NA          | 0.255 | . |
| 6:44358050-T/C | <i>CDC5L</i> | 6:44358050 | Asian | UCEC | NA          | 0.888 | . |
| 6:44360556-A/C | <i>CDC5L</i> | 6:44360556 | White | STAD | NA          | 0.708 | . |
| 6:44364173-G/A | <i>CDC5L</i> | 6:44364173 | White | UCEC | NA          | 0.299 | . |
| 6:44397637-A/T | <i>CDC5L</i> | 6:44397637 | Asian | UCEC | NA          | 0.205 | . |
| 6:52132745-G/A | <i>MCM3</i>  | 6:52132745 | Asian | STAD | rs143308289 | 0.156 | . |

|                |               |            |       |      |             |       |   |
|----------------|---------------|------------|-------|------|-------------|-------|---|
| 6:52132745-G/A | <i>MCM3</i>   | 6:52132745 | White | STAD | rs143308289 | 0.156 | . |
| 6:74468735-G/T | <i>CD109</i>  | 6:74468735 | White | LUAD | NA          | 0.275 | . |
| 6:74468735-G/T | <i>CD109</i>  | 6:74468735 | AA/B  | LUAD | NA          | 0.275 | . |
| 6:74473391-C/G | <i>CD109</i>  | 6:74473391 | Asian | BRCA | NA          | 0.175 | . |
| 6:74473391-C/G | <i>CD109</i>  | 6:74473391 | White | BRCA | NA          | 0.175 | . |
| 6:74475660-T/C | <i>CD109</i>  | 6:74475660 | Asian | UCEC | NA          | 0.172 | . |
| 6:74492433-G/A | <i>CD109</i>  | 6:74492433 | AA/B  | COAD | NA          | 0.283 | . |
| 6:74492433-G/A | <i>CD109</i>  | 6:74492433 | White | COAD | NA          | 0.283 | . |
| 6:74519785-C/T | <i>CD109</i>  | 6:74519785 | White | UCEC | NA          | 0.321 | . |
| 6:74519866-G/A | <i>CD109</i>  | 6:74519866 | Asian | UCEC | NA          | 0.363 | . |
| 6:74520832-A/C | <i>CD109</i>  | 6:74520832 | White | UCEC | NA          | 0.054 | . |
| 6:80717571-C/T | <i>TTK</i>    | 6:80717571 | AA/B  | LUAD | NA          | 0.656 | . |
| 6:80717571-C/T | <i>TTK</i>    | 6:80717571 | White | LUAD | NA          | 0.656 | . |
| 6:80745032-G/C | <i>TTK</i>    | 6:80745032 | AA/B  | BRCA | NA          | 0.891 | . |
| 6:80745032-G/C | <i>TTK</i>    | 6:80745032 | White | BRCA | NA          | 0.891 | . |
| 6:80746264-G/A | <i>TTK</i>    | 6:80746264 | Asian | BRCA | NA          | 0.894 | . |
| 6:80746264-G/A | <i>TTK</i>    | 6:80746264 | White | BRCA | NA          | 0.894 | . |
| 6:80749470-G/T | <i>TTK</i>    | 6:80749470 | AA/B  | LUSC | NA          | 0.698 | . |
| 6:80749470-G/T | <i>TTK</i>    | 6:80749470 | White | LUSC | NA          | 0.698 | . |
| 6:80749510-A/C | <i>TTK</i>    | 6:80749510 | Asian | UCEC | NA          | 0.676 | . |
| 6:80749527-G/T | <i>TTK</i>    | 6:80749527 | White | UCEC | NA          | 0.597 | . |
| 6:97599743-A/T | <i>MMS22L</i> | 6:97599743 | Asian | ESCA | NA          | 0.323 | . |
| 6:97599743-A/T | <i>MMS22L</i> | 6:97599743 | White | ESCA | NA          | 0.323 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 6:97613184-C/G  | <i>MMS22L</i> | 6:97613184  | Asian | ESCA | NA           | 0.09  | . |
| 6:97613184-C/G  | <i>MMS22L</i> | 6:97613184  | White | ESCA | NA           | 0.09  | . |
| 6:97626411-G/T  | <i>MMS22L</i> | 6:97626411  | White | UCEC | NA           | 0.261 | . |
| 6:97627350-T/C  | <i>MMS22L</i> | 6:97627350  | AA/B  | BRCA | rs1417953473 | 0.132 | . |
| 6:97627350-T/C  | <i>MMS22L</i> | 6:97627350  | White | BRCA | rs1417953473 | 0.132 | . |
| 6:97634457-G/T  | <i>MMS22L</i> | 6:97634457  | Asian | UCEC | NA           | 0.232 | . |
| 6:97634485-C/A  | <i>MMS22L</i> | 6:97634485  | Asian | STAD | NA           | 0.124 | . |
| 6:97634485-C/A  | <i>MMS22L</i> | 6:97634485  | White | STAD | NA           | 0.124 | . |
| 7:103777292-C/T | <i>ORC5</i>   | 7:103777292 | White | UCEC | rs140616327  | 0.163 | . |
| 7:103801549-C/A | <i>ORC5</i>   | 7:103801549 | AA/B  | LUAD | NA           | 0.352 | . |
| 7:103801549-C/A | <i>ORC5</i>   | 7:103801549 | White | LUAD | NA           | 0.352 | . |
| 7:103838219-T/C | <i>ORC5</i>   | 7:103838219 | White | LUSC | NA           | 0.372 | . |
| 7:103838219-T/C | <i>ORC5</i>   | 7:103838219 | AA/B  | LUSC | NA           | 0.372 | . |
| 7:103848285-C/T | <i>ORC5</i>   | 7:103848285 | White | UCEC | NA           | 0.466 | . |
| 7:105903857-G/T | <i>NAMPT</i>  | 7:105903857 | White | LGG  | NA           | 0.837 | . |
| 7:105903857-G/T | <i>NAMPT</i>  | 7:105903857 | AA/B  | LGG  | NA           | 0.837 | . |
| 7:105903963-C/A | <i>NAMPT</i>  | 7:105903963 | White | LUAD | NA           | 0.865 | . |
| 7:105903963-C/A | <i>NAMPT</i>  | 7:105903963 | AA/B  | LUAD | NA           | 0.865 | . |
| 7:105917478-A/G | <i>NAMPT</i>  | 7:105917478 | White | COAD | NA           | 0.543 | . |
| 7:105917501-C/A | <i>NAMPT</i>  | 7:105917501 | AA/B  | BRCA | NA           | 0.906 | . |
| 7:105917501-C/A | <i>NAMPT</i>  | 7:105917501 | White | BRCA | NA           | 0.906 | . |
| 7:105917576-T/C | <i>NAMPT</i>  | 7:105917576 | White | LUAD | NA           | 0.613 | . |
| 7:105917576-T/C | <i>NAMPT</i>  | 7:105917576 | AA/B  | LUAD | NA           | 0.613 | . |

|                 |               |             |       |      |                |       |   |
|-----------------|---------------|-------------|-------|------|----------------|-------|---|
| 7:150751117-G/T | <i>CDK5</i>   | 7:150751117 | Asian | UCEC | NA             | 0.316 | . |
| 7:150753708-A/C | <i>CDK5</i>   | 7:150753708 | White | COAD | NA             | 0.367 | . |
| 7:154774988-C/A | <i>PAXIP1</i> | 7:154774988 | White | STAD | NA             | 0.424 | . |
| 7:154774988-C/A | <i>PAXIP1</i> | 7:154774988 | Asian | STAD | NA             | 0.424 | . |
| 7:154790377-C/A | <i>PAXIP1</i> | 7:154790377 | White | LUAD | NA             | 0.47  | . |
| 7:154790377-C/A | <i>PAXIP1</i> | 7:154790377 | AA/B  | LUAD | NA             | 0.47  | . |
| 7:40172675-C/T  | <i>MPLKIP</i> | 7:40172675  | Asian | STAD | NA             | 0.603 | . |
| 7:40172675-C/T  | <i>MPLKIP</i> | 7:40172675  | White | STAD | NA             | 0.603 | . |
| 7:44155380-C/T  | <i>POLD2</i>  | 7:44155380  | White | STAD | NA             | 0.385 | . |
| 7:44155380-C/T  | <i>POLD2</i>  | 7:44155380  | Asian | STAD | NA             | 0.385 | . |
| 7:44155855-T/C  | <i>POLD2</i>  | 7:44155855  | White | STAD | NA             | 0.66  | . |
| 7:44155855-T/C  | <i>POLD2</i>  | 7:44155855  | Asian | STAD | NA             | 0.66  | . |
| 7:55221710-C/T  | <i>EGFR</i>   | 7:55221710  | AA/B  | LGG  | NA             | 0.581 | . |
| 7:55221710-C/T  | <i>EGFR</i>   | 7:55221710  | White | LGG  | NA             | 0.581 | . |
| 7:55221723-A/G  | <i>EGFR</i>   | 7:55221723  | AA/B  | LGG  | NA             | 0.631 | . |
| 7:55221723-A/G  | <i>EGFR</i>   | 7:55221723  | White | LGG  | NA             | 0.631 | . |
| 7:55221822-C/T  | <i>EGFR</i>   | 7:55221822  | AA/B  | BRCA | NA             | 0.647 | . |
| 7:55221822-C/T  | <i>EGFR</i>   | 7:55221822  | AA/B  | LGG  | NA             | 0.647 | . |
| 7:55221822-C/T  | <i>EGFR</i>   | 7:55221822  | White | LGG  | NA             | 0.647 | . |
| 7:55221822-C/T  | <i>EGFR</i>   | 7:55221822  | White | BRCA | NA             | 0.647 | . |
| 7:55223531-G/A  | <i>EGFR</i>   | 7:55223531  | AA/B  | LUAD | 7:55223531_G/A | 0.492 | . |
| 7:55223531-G/A  | <i>EGFR</i>   | 7:55223531  | White | LUAD | 7:55223531_G/A | 0.492 | . |
| 7:55225430-G/A  | <i>EGFR</i>   | 7:55225430  | White | UCEC | NA             | 0.807 | . |

|                |             |            |       |      |              |       |  |
|----------------|-------------|------------|-------|------|--------------|-------|--|
| 7:55229210-G/A | <i>EGFR</i> | 7:55229210 | White | UCEC | NA           | 0.885 | .  |
| 7:55240750-G/A | <i>EGFR</i> | 7:55240750 | White | LGG  | NA           | 0.489 | .  |
| 7:55240750-G/A | <i>EGFR</i> | 7:55240750 | AA/B  | LGG  | NA           | 0.489 | .  |
| 7:55241668-A/C | <i>EGFR</i> | 7:55241668 | White | UCEC | NA           | 0.427 | .  |
| 7:55242452-C/T | <i>EGFR</i> | 7:55242452 | White | SARC | NA           | 0.729 | .  |
| 7:55242452-C/T | <i>EGFR</i> | 7:55242452 | AA/B  | SARC | NA           | 0.729 | .  |
| 7:55242457-G/A | <i>EGFR</i> | 7:55242457 | White | UCEC | rs759256622  | 0.91  | .  |
| 7:55249069-C/G | <i>EGFR</i> | 7:55249069 | White | CESC | NA           | 0.738 | .  |
| 7:55249069-C/G | <i>EGFR</i> | 7:55249069 | AA/B  | CESC | NA           | 0.738 | .  |
| 7:55249071-C/T | <i>EGFR</i> | 7:55249071 | White | LUAD | rs121434569  | 0.529 | likely_pathogenic, drug_response, protective |
| 7:55249071-C/T | <i>EGFR</i> | 7:55249071 | AA/B  | LUAD | rs121434569  | 0.529 | likely_pathogenic, drug_response, protective |
| 7:55249134-C/G | <i>EGFR</i> | 7:55249134 | AA/B  | CESC | rs1378775962 | 0.531 | .  |
| 7:55249134-C/G | <i>EGFR</i> | 7:55249134 | White | CESC | rs1378775962 | 0.531 | .  |
| 7:55259482-C/A | <i>EGFR</i> | 7:55259482 | White | BRCA | NA           | 0.525 | .  |
| 7:55259482-C/A | <i>EGFR</i> | 7:55259482 | Asian | BRCA | NA           | 0.525 | .  |
| 7:55266491-A/T | <i>EGFR</i> | 7:55266491 | White | BRCA | NA           | 0.761 | .  |
| 7:55266491-A/T | <i>EGFR</i> | 7:55266491 | AA/B  | BRCA | NA           | 0.761 | .  |
| 7:55273092-C/T | <i>EGFR</i> | 7:55273092 | White | ESCA | rs1473630143 | 0.48  | .  |
| 7:55273092-C/T | <i>EGFR</i> | 7:55273092 | Asian | ESCA | rs1473630143 | 0.48  | .  |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 7:6018254-C/A   | <i>PMS2</i>   | 7:6018254   | White | COAD | NA           | 0.993 | . |
| 7:6018254-C/A   | <i>PMS2</i>   | 7:6018254   | AA/B  | COAD | NA           | 0.993 | . |
| 7:6026456-T/G   | <i>PMS2</i>   | 7:6026456   | White | STAD | NA           | 0.086 | . |
| 7:6026456-T/G   | <i>PMS2</i>   | 7:6026456   | Asian | STAD | NA           | 0.086 | . |
| 7:6026525-G/T   | <i>PMS2</i>   | 7:6026525   | Asian | UCEC | NA           | 0.2   | . |
| 7:6035205-T/C   | <i>PMS2</i>   | 7:6035205   | Asian | UCEC | NA           | 0.862 | . |
| 7:73661080-C/T  | <i>RFC2</i>   | 7:73661080  | Asian | UCEC | NA           | 0.452 | . |
| 7:7678715-C/T   | <i>RPA3</i>   | 7:7678715   | AA/B  | COAD | rs1279111309 | 0.596 | . |
| 7:7678715-C/T   | <i>RPA3</i>   | 7:7678715   | White | COAD | rs1279111309 | 0.596 | . |
| 8:117866665-T/C | <i>RAD21</i>  | 8:117866665 | White | COAD | NA           | 0.924 | . |
| 8:117875449-C/T | <i>RAD21</i>  | 8:117875449 | White | COAD | rs773855925  | 0.683 | . |
| 8:117875482-C/T | <i>RAD21</i>  | 8:117875482 | Asian | UCEC | NA           | 0.737 | . |
| 8:126114657-A/C | <i>NSMCE2</i> | 8:126114657 | White | COAD | NA           | 0.122 | . |
| 8:126194403-T/G | <i>NSMCE2</i> | 8:126194403 | White | STAD | NA           | 0.166 | . |
| 8:145737356-C/G | <i>RECQL4</i> | 8:145737356 | Asian | BRCA | NA           | NA    | . |
| 8:145737356-C/G | <i>RECQL4</i> | 8:145737356 | White | BRCA | NA           | NA    | . |
| 8:145738257-C/T | <i>RECQL4</i> | 8:145738257 | AA/B  | BRCA | rs374225917  | NA    | . |
| 8:145738257-C/T | <i>RECQL4</i> | 8:145738257 | White | STAD | rs374225917  | NA    | . |
| 8:145738257-C/T | <i>RECQL4</i> | 8:145738257 | Asian | STAD | rs374225917  | NA    | . |
| 8:145738257-C/T | <i>RECQL4</i> | 8:145738257 | White | BRCA | rs374225917  | NA    | . |
| 8:145739866-G/A | <i>RECQL4</i> | 8:145739866 | AA/B  | CESC | rs755425093  | NA    | . |
| 8:145739866-G/A | <i>RECQL4</i> | 8:145739866 | White | CESC | rs755425093  | NA    | . |
| 8:145740393-G/A | <i>RECQL4</i> | 8:145740393 | White | COAD | rs762113412  | NA    | . |

|                 |               |             |       |      |             |       |   |
|-----------------|---------------|-------------|-------|------|-------------|-------|---|
| 8:145740393-G/A | <i>RECQL4</i> | 8:145740393 | AA/B  | COAD | rs762113412 | NA    | . |
| 8:145740623-G/C | <i>RECQL4</i> | 8:145740623 | White | BRCA | NA          | NA    | . |
| 8:145740623-G/C | <i>RECQL4</i> | 8:145740623 | AA/B  | BRCA | NA          | NA    | . |
| 8:18079582-G/T  | <i>NAT1</i>   | 8:18079582  | Asian | UCEC | rs772568722 | 0.384 | . |
| 8:18079991-G/T  | <i>NAT1</i>   | 8:18079991  | White | UCEC | NA          | 0.243 | . |
| 8:21965115-G/T  | <i>NUDT18</i> | 8:21965115  | Asian | STAD | NA          | 0.134 | . |
| 8:21965115-G/T  | <i>NUDT18</i> | 8:21965115  | White | STAD | NA          | 0.134 | . |
| 8:30922579-G/T  | <i>WRN</i>    | 8:30922579  | White | UCEC | NA          | 0.393 | . |
| 8:30954286-G/T  | <i>WRN</i>    | 8:30954286  | AA/B  | LUAD | NA          | 0.276 | . |
| 8:30954286-G/T  | <i>WRN</i>    | 8:30954286  | White | LUAD | NA          | 0.276 | . |
| 8:30969237-G/A  | <i>WRN</i>    | 8:30969237  | White | UCEC | rs777084325 | 0.424 | . |
| 8:30969269-A/C  | <i>WRN</i>    | 8:30969269  | White | UCEC | NA          | 0.174 | . |
| 8:31014945-C/T  | <i>WRN</i>    | 8:31014945  | White | STAD | rs146861737 | 0.209 | . |
| 8:31014945-C/T  | <i>WRN</i>    | 8:31014945  | Asian | STAD | rs146861737 | 0.209 | . |
| 8:39775433-G/T  | <i>IDO1</i>   | 8:39775433  | Asian | UCEC | NA          | 0.364 | . |
| 8:39782262-T/G  | <i>IDO1</i>   | 8:39782262  | Asian | UCEC | NA          | 0.427 | . |
| 8:39785379-G/C  | <i>IDO1</i>   | 8:39785379  | White | ESCA | NA          | 0.524 | . |
| 8:39785379-G/C  | <i>IDO1</i>   | 8:39785379  | Asian | ESCA | NA          | 0.524 | . |
| 8:42206594-C/T  | <i>POLB</i>   | 8:42206594  | Asian | STAD | rs201913498 | 0.566 | . |
| 8:42206594-C/T  | <i>POLB</i>   | 8:42206594  | Asian | STAD | rs201913498 | 0.285 | . |
| 8:42206594-C/T  | <i>POLB</i>   | 8:42206594  | White | STAD | rs201913498 | 0.566 | . |
| 8:42206594-C/T  | <i>POLB</i>   | 8:42206594  | White | STAD | rs201913498 | 0.285 | . |
| 8:42214904-A/G  | <i>POLB</i>   | 8:42214904  | AA/B  | LUAD | NA          | 0.389 | . |

|                |               |            |       |      |             |       |   |
|----------------|---------------|------------|-------|------|-------------|-------|---|
| 8:42214904-A/G | <i>POLB</i>   | 8:42214904 | AA/B  | LUAD | NA          | 0.745 | . |
| 8:42214904-A/G | <i>POLB</i>   | 8:42214904 | White | LUAD | NA          | 0.389 | . |
| 8:42214904-A/G | <i>POLB</i>   | 8:42214904 | White | LUAD | NA          | 0.745 | . |
| 8:42226841-G/T | <i>POLB</i>   | 8:42226841 | Asian | UCEC | NA          | 0.591 | . |
| 8:42226841-G/T | <i>POLB</i>   | 8:42226841 | Asian | UCEC | NA          | 0.717 | . |
| 8:54891623-A/G | <i>TCEA1</i>  | 8:54891623 | AA/B  | COAD | NA          | 0.965 | . |
| 8:54891623-A/G | <i>TCEA1</i>  | 8:54891623 | White | COAD | NA          | 0.965 | . |
| 8:75737654-G/T | <i>PI15</i>   | 8:75737654 | AA/B  | LUAD | NA          | 0.39  | . |
| 8:75737654-G/T | <i>PI15</i>   | 8:75737654 | White | LUAD | NA          | 0.39  | . |
| 8:75737735-C/T | <i>PI15</i>   | 8:75737735 | Asian | STAD | rs747132125 | 0.445 | . |
| 8:75737735-C/T | <i>PI15</i>   | 8:75737735 | White | STAD | rs747132125 | 0.445 | . |
| 8:90958385-A/C | <i>NBN</i>    | 8:90958385 | White | UCEC | NA          | 0.716 | . |
| 8:90967568-G/T | <i>NBN</i>    | 8:90967568 | White | UCEC | NA          | 0.228 | . |
| 8:90976667-T/C | <i>NBN</i>    | 8:90976667 | White | COAD | NA          | 0.429 | . |
| 8:90983450-C/A | <i>NBN</i>    | 8:90983450 | Asian | UCEC | NA          | 0.849 | . |
| 8:90983510-G/T | <i>NBN</i>    | 8:90983510 | AA/B  | BRCA | NA          | 0.617 | . |
| 8:90983510-G/T | <i>NBN</i>    | 8:90983510 | White | BRCA | NA          | 0.617 | . |
| 8:90993081-C/A | <i>NBN</i>    | 8:90993081 | White | UCEC | NA          | 0.581 | . |
| 8:90993671-C/A | <i>NBN</i>    | 8:90993671 | Asian | STAD | NA          | 0.351 | . |
| 8:90993671-C/A | <i>NBN</i>    | 8:90993671 | White | STAD | NA          | 0.351 | . |
| 8:90993708-G/T | <i>NBN</i>    | 8:90993708 | White | UCEC | NA          | 0.866 | . |
| 8:90994993-C/T | <i>NBN</i>    | 8:90994993 | White | COAD | rs759146120 | 0.449 | . |
| 8:95390494-T/G | <i>RAD54B</i> | 8:95390494 | Asian | UCEC | rs777020825 | 0.544 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 8:95392443-C/G  | <i>RAD54B</i> | 8:95392443  | White | BRCA | NA           | 0.979 | . |
| 8:95392443-C/G  | <i>RAD54B</i> | 8:95392443  | AA/B  | BRCA | NA           | 0.979 | . |
| 8:95404031-G/T  | <i>RAD54B</i> | 8:95404031  | White | COAD | NA           | 0.772 | . |
| 8:95404048-T/C  | <i>RAD54B</i> | 8:95404048  | AA/B  | BRCA | NA           | 0.763 | . |
| 8:95404048-T/C  | <i>RAD54B</i> | 8:95404048  | White | BRCA | NA           | 0.763 | . |
| 8:95412652-C/T  | <i>RAD54B</i> | 8:95412652  | White | ESCA | NA           | 0.935 | . |
| 8:95412652-C/T  | <i>RAD54B</i> | 8:95412652  | Asian | ESCA | NA           | 0.935 | . |
| 8:95416359-C/T  | <i>RAD54B</i> | 8:95416359  | Asian | BRCA | rs1032740646 | 0.948 | . |
| 8:95416359-C/T  | <i>RAD54B</i> | 8:95416359  | White | UCEC | rs1032740646 | 0.948 | . |
| 8:95416359-C/T  | <i>RAD54B</i> | 8:95416359  | White | BRCA | rs1032740646 | 0.948 | . |
| 9:110091866-T/C | <i>RAD23B</i> | 9:110091866 | Asian | UCEC | NA           | 0.627 | . |
| 9:115449873-T/A | <i>INIP</i>   | 9:115449873 | White | KIRC | NA           | 0.415 | . |
| 9:115449873-T/A | <i>INIP</i>   | 9:115449873 | White | KIRC | NA           | 0.716 | . |
| 9:115449873-T/A | <i>INIP</i>   | 9:115449873 | AA/B  | KIRC | NA           | 0.415 | . |
| 9:115449873-T/A | <i>INIP</i>   | 9:115449873 | AA/B  | KIRC | NA           | 0.716 | . |
| 9:115449874-C/G | <i>INIP</i>   | 9:115449874 | White | KIRC | NA           | 0.328 | . |
| 9:115449874-C/G | <i>INIP</i>   | 9:115449874 | White | KIRC | NA           | 0.637 | . |
| 9:115449874-C/G | <i>INIP</i>   | 9:115449874 | AA/B  | KIRC | NA           | 0.328 | . |
| 9:115449874-C/G | <i>INIP</i>   | 9:115449874 | AA/B  | KIRC | NA           | 0.637 | . |
| 9:131048293-G/T | <i>SWI5</i>   | 9:131048293 | White | UCEC | NA           | 0.269 | . |
| 9:131048293-G/T | <i>SWI5</i>   | 9:131048293 | White | UCEC | NA           | 0.575 | . |
| 9:131048293-G/T | <i>SWI5</i>   | 9:131048293 | White | UCEC | NA           | 0.55  | . |
| 9:133729582-G/A | <i>ABL1</i>   | 9:133729582 | White | BRCA | NA           | 0.536 | . |

|                 |              |             |       |      |             |       |   |
|-----------------|--------------|-------------|-------|------|-------------|-------|---|
| 9:133729582-G/A | <i>ABL1</i>  | 9:133729582 | AA/B  | BRCA | NA          | 0.536 | . |
| 9:133729585-T/G | <i>ABL1</i>  | 9:133729585 | Asian | UCEC | NA          | 0.708 | . |
| 9:133738166-A/G | <i>ABL1</i>  | 9:133738166 | White | STAD | NA          | 0.724 | . |
| 9:133738315-C/T | <i>ABL1</i>  | 9:133738315 | AA/B  | COAD | NA          | 0.672 | . |
| 9:133738315-C/T | <i>ABL1</i>  | 9:133738315 | AA/B  | COAD | NA          | 0.258 | . |
| 9:133738315-C/T | <i>ABL1</i>  | 9:133738315 | White | COAD | NA          | 0.672 | . |
| 9:133738315-C/T | <i>ABL1</i>  | 9:133738315 | White | COAD | NA          | 0.258 | . |
| 9:133748310-T/C | <i>ABL1</i>  | 9:133748310 | White | COAD | NA          | 0.794 | . |
| 9:133748310-T/C | <i>ABL1</i>  | 9:133748310 | AA/B  | COAD | NA          | 0.794 | . |
| 9:133753820-G/T | <i>ABL1</i>  | 9:133753820 | AA/B  | LUAD | NA          | 0.841 | . |
| 9:133753820-G/T | <i>ABL1</i>  | 9:133753820 | White | LUAD | NA          | 0.841 | . |
| 9:32973624-C/G  | <i>APTX</i>  | 9:32973624  | AA/B  | LUAD | NA          | 0.804 | . |
| 9:32973624-C/G  | <i>APTX</i>  | 9:32973624  | White | LUAD | NA          | 0.804 | . |
| 9:32984659-C/T  | <i>APTX</i>  | 9:32984659  | Asian | UCEC | rs142133683 | 0.732 | . |
| 9:32985979-G/T  | <i>APTX</i>  | 9:32985979  | White | COAD | NA          | 0.836 | . |
| 9:32988085-T/G  | <i>APTX</i>  | 9:32988085  | White | COAD | NA          | 0.14  | . |
| 9:35076994-C/A  | <i>FANCG</i> | 9:35076994  | White | UCEC | NA          | 0.11  | . |
| 9:35077299-A/G  | <i>FANCG</i> | 9:35077299  | AA/B  | COAD | rs776489249 | 0.722 | . |
| 9:35077299-A/G  | <i>FANCG</i> | 9:35077299  | White | COAD | rs776489249 | 0.722 | . |
| 9:72895751-G/T  | <i>SMC5</i>  | 9:72895751  | Asian | STAD | NA          | 0.665 | . |
| 9:72895751-G/T  | <i>SMC5</i>  | 9:72895751  | White | STAD | NA          | 0.665 | . |
| 9:72915033-C/T  | <i>SMC5</i>  | 9:72915033  | White | UCEC | rs372120847 | 0.193 | . |
| 9:72962880-A/G  | <i>SMC5</i>  | 9:72962880  | Asian | ESCA | NA          | 0.36  | . |

|                |                |            |       |      |              |       |   |
|----------------|----------------|------------|-------|------|--------------|-------|---|
| 9:72962880-A/G | <i>SMC5</i>    | 9:72962880 | White | ESCA | NA           | 0.36  | . |
| 9:72962937-C/T | <i>SMC5</i>    | 9:72962937 | White | STAD | NA           | 0.681 | . |
| 9:72965340-A/G | <i>SMC5</i>    | 9:72965340 | White | COAD | NA           | 0.545 | . |
| 9:72967215-C/T | <i>SMC5</i>    | 9:72967215 | White | LUSC | rs755324108  | 0.241 | . |
| 9:72967215-C/T | <i>SMC5</i>    | 9:72967215 | AA/B  | LUSC | rs755324108  | 0.241 | . |
| 9:75778399-G/A | <i>ANXA1</i>   | 9:75778399 | White | STAD | rs1225300286 | 0.507 | . |
| 9:75778399-G/A | <i>ANXA1</i>   | 9:75778399 | Asian | STAD | rs1225300286 | 0.507 | . |
| 9:75778440-G/A | <i>ANXA1</i>   | 9:75778440 | White | COAD | NA           | 0.477 | . |
| 9:75778440-G/A | <i>ANXA1</i>   | 9:75778440 | AA/B  | COAD | NA           | 0.477 | . |
| 9:75781108-G/A | <i>ANXA1</i>   | 9:75781108 | Asian | STAD | rs1369672677 | 0.371 | . |
| 9:75781108-G/A | <i>ANXA1</i>   | 9:75781108 | White | STAD | rs1369672677 | 0.371 | . |
| 9:75782441-C/A | <i>ANXA1</i>   | 9:75782441 | White | COAD | NA           | 0.329 | . |
| 9:75782463-G/A | <i>ANXA1</i>   | 9:75782463 | White | UCEC | NA           | 0.413 | . |
| 9:75783994-G/A | <i>ANXA1</i>   | 9:75783994 | White | KIRC | rs776755767  | 0.569 | . |
| 9:75783994-G/A | <i>ANXA1</i>   | 9:75783994 | AA/B  | KIRC | rs776755767  | 0.569 | . |
| 9:86616520-C/A | <i>RMI1</i>    | 9:86616520 | Asian | UCEC | NA           | 0.208 | . |
| 9:86616989-C/T | <i>RMI1</i>    | 9:86616989 | White | UCEC | NA           | 0.166 | . |
| 9:86617663-T/G | <i>RMI1</i>    | 9:86617663 | White | COAD | NA           | 0.179 | . |
| 9:92220638-A/G | <i>GADD45G</i> | 9:92220638 | AA/B  | LUAD | NA           | 0.749 | . |
| 9:92220638-A/G | <i>GADD45G</i> | 9:92220638 | White | LUAD | NA           | 0.749 | . |
| 9:92220676-T/G | <i>GADD45G</i> | 9:92220676 | White | COAD | NA           | 0.621 | . |
| 9:92220779-A/C | <i>GADD45G</i> | 9:92220779 | AA/B  | LIHC | NA           | 0.312 | . |
| 9:97912234-G/T | <i>FANCC</i>   | 9:97912234 | Asian | UCEC | NA           | 0.348 | . |

|                 |               |             |       |      |              |       |   |
|-----------------|---------------|-------------|-------|------|--------------|-------|---|
| 9:98009731-G/T  | <i>FANCC</i>  | 9:98009731  | Asian | UCEC | rs138722298  | 0.34  | . |
| 9:99285665-G/A  | <i>CDC14B</i> | 9:99285665  | White | STAD | rs773237782  | 0.187 | . |
| 9:99296376-A/C  | <i>CDC14B</i> | 9:99296376  | White | UCEC | NA           | 0.607 | . |
| 9:99296376-A/C  | <i>CDC14B</i> | 9:99296376  | White | UCEC | NA           | 0.923 | . |
| 9:99327763-G/A  | <i>CDC14B</i> | 9:99327763  | White | UCEC | rs373460925  | 0.54  | . |
| 9:99327763-G/A  | <i>CDC14B</i> | 9:99327763  | White | UCEC | rs373460925  | 0.222 | . |
| X:118708874-G/T | <i>UBE2A</i>  | X:118708874 | AA/B  | LUAD | NA           | 0.812 | . |
| X:118708874-G/T | <i>UBE2A</i>  | X:118708874 | White | LUAD | NA           | 0.812 | . |
| X:118717161-A/C | <i>UBE2A</i>  | X:118717161 | AA/B  | KIRC | NA           | 0.147 | . |
| X:118717161-A/C | <i>UBE2A</i>  | X:118717161 | White | KIRC | NA           | 0.147 | . |
| X:139865818-A/C | <i>CDR1</i>   | X:139865818 | Asian | STAD | NA           | 0.054 | . |
| X:139865818-A/C | <i>CDR1</i>   | X:139865818 | White | STAD | NA           | 0.054 | . |
| X:139865900-C/A | <i>CDR1</i>   | X:139865900 | Asian | UCEC | NA           | 0.124 | . |
| X:14868746-G/C  | <i>FANCB</i>  | X:14868746  | AA/B  | BRCA | NA           | 0.171 | . |
| X:14868746-G/C  | <i>FANCB</i>  | X:14868746  | White | BRCA | NA           | 0.171 | . |
| X:14871187-C/A  | <i>FANCB</i>  | X:14871187  | Asian | UCEC | rs1354970109 | 0.067 | . |
| X:14882881-T/A  | <i>FANCB</i>  | X:14882881  | White | LUAD | NA           | 0.077 | . |
| X:14882881-T/A  | <i>FANCB</i>  | X:14882881  | AA/B  | LUAD | NA           | 0.077 | . |
| X:151998193-G/T | <i>CETN2</i>  | X:151998193 | Asian | UCEC | NA           | 0.503 | . |
| X:152710700-G/C | <i>TREX2</i>  | X:152710700 | AA/B  | LUAD | NA           | 0.412 | . |
| X:152710700-G/C | <i>TREX2</i>  | X:152710700 | White | LUAD | NA           | 0.412 | . |
| X:152710773-G/A | <i>TREX2</i>  | X:152710773 | White | LUSC | NA           | 0.154 | . |
| X:152710773-G/A | <i>TREX2</i>  | X:152710773 | AA/B  | LUSC | NA           | 0.154 | . |

|                 |              |             |       |      |                     |       |   |
|-----------------|--------------|-------------|-------|------|---------------------|-------|---|
| X:152710780-G/A | <i>TREX2</i> | X:152710780 | White | STAD | rs782056145         | 0.33  | . |
| X:152710780-G/A | <i>TREX2</i> | X:152710780 | Asian | STAD | rs782056145         | 0.33  | . |
| X:152710795-G/T | <i>TREX2</i> | X:152710795 | Asian | STAD | NA                  | 0.18  | . |
| X:152710795-G/T | <i>TREX2</i> | X:152710795 | White | STAD | NA                  | 0.18  | . |
| X:154317544-G/A | <i>BRCC3</i> | X:154317544 | Asian | BRCA | NA                  | 0.335 | . |
| X:154317544-G/A | <i>BRCC3</i> | X:154317544 | White | BRCA | NA                  | 0.335 | . |
| X:154319106-G/T | <i>BRCC3</i> | X:154319106 | Asian | UCEC | X:154319106_G/<br>T | 0.093 | . |
| X:154348284-G/T | <i>BRCC3</i> | X:154348284 | Asian | UCEC | NA                  | 0.162 | . |
| X:24721417-C/T  | <i>POLA1</i> | X:24721417  | White | LUSC | rs747452548         | 0.282 | . |
| X:24721417-C/T  | <i>POLA1</i> | X:24721417  | AA/B  | LUSC | rs747452548         | 0.282 | . |
| X:24732774-G/T  | <i>POLA1</i> | X:24732774  | Asian | UCEC | NA                  | 0.155 | . |
| X:24741356-G/A  | <i>POLA1</i> | X:24741356  | Asian | UCEC | rs751442544         | 0.517 | . |
| X:24744109-G/T  | <i>POLA1</i> | X:24744109  | White | UCEC | NA                  | 0.317 | . |
| X:24746001-T/C  | <i>POLA1</i> | X:24746001  | Asian | UCEC | NA                  | 0.26  | . |
| X:24755801-A/C  | <i>POLA1</i> | X:24755801  | White | COAD | NA                  | 0.262 | . |
| X:24760155-G/A  | <i>POLA1</i> | X:24760155  | White | UCEC | NA                  | 0.694 | . |
| X:24760174-C/T  | <i>POLA1</i> | X:24760174  | Asian | BRCA | NA                  | 0.379 | . |
| X:24760174-C/T  | <i>POLA1</i> | X:24760174  | White | BRCA | NA                  | 0.379 | . |
| X:24761441-A/G  | <i>POLA1</i> | X:24761441  | Asian | UCEC | NA                  | 0.424 | . |
| X:24767001-G/T  | <i>POLA1</i> | X:24767001  | White | UCEC | NA                  | 0.675 | . |
| X:24906128-G/T  | <i>POLA1</i> | X:24906128  | AA/B  | LUSC | NA                  | 0.645 | . |
| X:24906128-G/T  | <i>POLA1</i> | X:24906128  | White | LUSC | NA                  | 0.645 | . |

|                |              |            |       |      |                    |       |   |
|----------------|--------------|------------|-------|------|--------------------|-------|---|
| X:47062354-A/G | <i>UBA1</i>  | X:47062354 | Asian | UCEC | NA                 | 0.63  | . |
| X:47069355-C/T | <i>UBA1</i>  | X:47069355 | White | UCEC | NA                 | 0.205 | . |
| X:47070254-G/A | <i>UBA1</i>  | X:47070254 | White | LUAD | NA                 | 0.724 | . |
| X:47070254-G/A | <i>UBA1</i>  | X:47070254 | AA/B  | LUAD | NA                 | 0.724 | . |
| X:47072222-G/A | <i>UBA1</i>  | X:47072222 | White | UCEC | NA                 | 0.73  | . |
| X:47072254-C/T | <i>UBA1</i>  | X:47072254 | White | UCEC | rs782524260        | 0.501 | . |
| X:47072566-G/A | <i>UBA1</i>  | X:47072566 | White | STAD | X:47072566_G/<br>A | 0.272 | . |
| X:47074246-G/T | <i>UBA1</i>  | X:47074246 | AA/B  | KIRP | NA                 | 0.192 | . |
| X:47074246-G/T | <i>UBA1</i>  | X:47074246 | White | KIRP | NA                 | 0.192 | . |
| X:55028033-G/T | <i>APEX2</i> | X:55028033 | AA/B  | SARC | NA                 | 0.475 | . |
| X:55028033-G/T | <i>APEX2</i> | X:55028033 | White | SARC | NA                 | 0.475 | . |
| X:55028042-G/A | <i>APEX2</i> | X:55028042 | White | STAD | rs374939146        | 0.651 | . |
| X:55028042-G/A | <i>APEX2</i> | X:55028042 | Asian | STAD | rs374939146        | 0.651 | . |
| X:55028732-A/G | <i>APEX2</i> | X:55028732 | Asian | UCEC | NA                 | 0.87  | . |
| X:55029522-G/T | <i>APEX2</i> | X:55029522 | Asian | BRCA | NA                 | 0.223 | . |
| X:55029522-G/T | <i>APEX2</i> | X:55029522 | White | BRCA | NA                 | 0.223 | . |
| X:69871378-C/T | <i>TEX11</i> | X:69871378 | Asian | ESCA | NA                 | 0.242 | . |
| X:69871378-C/T | <i>TEX11</i> | X:69871378 | White | ESCA | NA                 | 0.242 | . |
| X:69902665-C/A | <i>TEX11</i> | X:69902665 | AA/B  | KIRP | NA                 | 0.346 | . |
| X:69902665-C/A | <i>TEX11</i> | X:69902665 | White | KIRP | NA                 | 0.346 | . |
| X:70026567-G/T | <i>TEX11</i> | X:70026567 | Asian | UCEC | rs775355719        | 0.218 | . |
| X:70073148-C/G | <i>TEX11</i> | X:70073148 | White | LUAD | NA                 | 0.12  | . |

|                |              |            |       |      |    |       |   |
|----------------|--------------|------------|-------|------|----|-------|---|
| X:70073148-C/G | <i>TEX11</i> | X:70073148 | AA/B  | LUAD | NA | 0.12  | . |
| X:96139695-G/T | <i>RPA4</i>  | X:96139695 | AA/B  | BRCA | NA | 0.536 | . |
| X:96139695-G/T | <i>RPA4</i>  | X:96139695 | White | BRCA | NA | 0.536 | . |
| X:96140055-A/G | <i>RPA4</i>  | X:96140055 | White | ESCA | NA | 0.466 | . |
| X:96140055-A/G | <i>RPA4</i>  | X:96140055 | Asian | ESCA | NA | 0.466 | . |