**Supplementary Table 1. Full list of genotyped SNPs organized by functional group.**

**dna\_repair immune proliferation apoptosis metabolism telomere hormone transport\_signal neural**

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| ape1\_148 | ARHGDIB\_01 | BARD1\_02 | AKT1\_15 | ABCA1\_04 | TEP1\_01 | SHBG\_01 | SEC14L2\_01 | DRD1\_02 |
| APEX1\_03 | ARHGDIB\_03 | BARD1\_11 | APAF1\_03 | ABCA1\_12 | TEP1\_02 | SHBG\_05 | SEC14L2\_04 | DRD2\_01 |
| APEX1\_09 | BIC\_01 | BARD1\_18 | APAF1\_04 | ABCA1\_15 | TEP1\_03 | SHBG\_12 | SEC14L2\_05 | DRD2\_03 |
| APEX1\_16 | BIC\_04 | BARD1\_22 | APAF1\_07 | ABCA1\_17 | TEP1\_08 | SHBG\_13 | SLC19A1\_01 | DRD2\_11 |
| ATM\_01 | BIC\_07 | CAV1\_02 | APAF1\_09 | ABCA1\_23 | TEP1\_10 | HSD17B1\_06 | SLC19A1\_05 | DRD4\_07 |
| ATM\_02 | BIC\_10 | CAV1\_05 | APOE\_03 | ABCA1\_26 | TEP1\_11 | HSD17B1\_09 | SLC23A1\_05 | DRD4\_15 |
| ATM\_03 | BIC\_11 | CAV1\_07 | BAK1\_05 | ABCA1\_31 | TERF1\_01 | HSD17B1\_10 | SLC23A1\_09 | HTR1B\_02 |
| ATM\_05 | BIC\_15 | CAV1\_09 | BAK1\_06 | ABCA5\_01 | TERF1\_02 | HSD17B2\_01 | SLC23A1\_18 | HTR1B\_07 |
| ATM\_06 | BIC\_21 | CAV1\_19 | BAK1\_07 | ABCA6\_01 | TERF1\_04 | HSD17B2\_02 | SLC23A1\_20 | HTR1D\_01 |
| ATM\_08 | BIC\_32 | CAV1\_23 | BAX\_03 | ABCA6\_05 | TERF1\_06 | HSD17B4\_01 | SLC23A2\_01 | HTR1D\_03 |
| ATM\_27 | BIC\_33 | CAV1\_29 | BAX\_05 | ABCA7\_05 | TERF1\_27 | HSD17B4\_03 | SLC23A2\_02 | HTR1D\_04 |
| ATM\_37 | BIC\_34 | CCNA2\_01 | BCL2L1\_01 | ABCA7\_06 | TERF2\_01 | HSD17B4\_08 | SLC23A2\_03 |  |
| ATM\_38 | BPI\_01 | CCNA2\_06 | BCL2L1\_02 | ABCA7\_09 | TERF2\_03 | HSD17B4\_10 | SLC23A2\_05 |  |
| BLM\_02 | CCL5\_03 | CCNA2\_12 | BCL2L1\_03 | ABCB1\_01 | TERF2\_14 | HSD17B4\_15 | SLC23A2\_25 |  |
| BLM\_03 | CCL5\_04 | CCND1\_01 | BCL6\_05 | ABCB1\_09 | TERT\_02 | HSD17B4\_16 | SLC23A2\_26 |  |
| BLM\_05 | CCR2\_01 | CCND1\_02 | BCL6\_06 | ABCB1\_12 | TERT\_03 | HSD17B4\_17 | SLC23A2\_31 |  |
| BLM\_06 | CCR2\_02 | CCND1\_03 | BCL6\_07 | ABCB11\_02 | TERT\_08 | HSD17B4\_18 | SLC23A2\_33 |  |
| BLM\_16 | CCR2\_06 | CCND3\_01 | BCL6\_09 | ABCB11\_08 | TERT\_14 | HSD17B4\_19 | SLC23A2\_48 |  |
| BLM\_22 | CCR3\_01 | CCND3\_02 | BCL6\_11 | ABCC2\_01 | TERT\_15 | HSD17B4\_21 | SLC2A1\_01 |  |
| BLM\_25 | CCR3\_05 | CDC25A\_04 | BIRC2\_01 | ABCC2\_02 | TERT\_21 | HSD3B1\_18 | SLC2A4\_02 |  |
| BRCA1\_01 | CCR5\_02 | CDC25B\_06 | BIRC3\_02 | ABCC2\_03 | TERT\_25 | HSD3B1\_22 | SLC2A4\_03 |  |
| BRCA1\_05 | CCR5\_04 | CDC25C\_01 | BIRC3\_03 | ABCC2\_05 | TERT\_54 | HSD3B1\_23 | SLC30A1\_01 |  |
| BRCA1\_06 | CCR5\_07 | CDK4\_01 | CARD15\_04 | ABCC2\_10 | TERT\_62b | HSD3B1\_24 | SLC30A4\_01 |  |
| BRCA1\_18 | CD14\_03 | CDK5\_08 | CARD15\_05 | ABCC4\_04 | rs938886 | HSD3B1\_25 | SLC39A2\_05 |  |
| BRCA1\_21 | CD4\_03 | CDK5\_13 | CARD15\_09 | ABCC4\_07 | rs2295275 | HSD3B1\_26 | SLC39A2\_07 |  |
| BRCA1\_26 | CD80\_01 | CDK5\_14 | CARD15\_10 | ABCG8\_01 | WDR79\_06 | HSD3B2\_07 | SLC39A2\_10 |  |
| BRCA1\_32 | CD80\_02 | CDK5\_16 | CARD15\_19 | ABCG8\_02 | WDR79\_09 | HSD3B2\_14 | SLC4A2\_01 |  |
| BRCA2\_01 | CD80\_04 | CDKN1B\_04 | CASP10\_02 | ABCG8\_06 |  | HSD3B2\_19 | SLC4A2\_02 |  |
| BRCA2\_02 | CD81\_04 | CDKN1C\_09 | CASP3\_02 | ADH1C\_01 |  | HSD3B2\_22 | SLC4A2\_04 |  |
| BRCA2\_03 | CD81\_06 | CDKN2A\_03 | CASP3\_07 | ADH1C\_14 |  | HSD3B2\_23b | SLC6A3\_03 |  |
| BRCA2\_04 | CD86\_02 | CDKN2A\_09 | CASP3\_08 | ADH1C\_15 |  | HSD3B2\_25 | SLC6A3\_05 |  |
| BRCA2\_06 | CD86\_03 | CDKN2A\_11 | CASP3\_09 | ADH1C\_16 |  | BZRP\_03 | SLC6A3\_10 |  |
| BRCA2\_25 | CFH\_01 | CDKN2A\_12 | CASP8\_06 | ADH1C\_18 |  | BZRP\_05 | SLC6A3\_14 |  |

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| BRCA2\_31b | CFH\_03 | CDKN2A\_13 | CASP8\_07 | AHR\_01 | BZRP\_09 | rs2234632 |
| BRCA2\_32 | CFH\_05 | CDKN2A\_14 | CASP8\_08b | AHR\_17 | AR\_12 | rs2234636 |
| BRIP1\_01 | CFH\_06 | CDKN2A\_16 | CASP9\_01 | AHR\_19 | AR\_13 | rs2234637 |
| BRIP1\_02 | CFH\_07 | CDKN2A\_18 | CASP9\_03 | AHRR\_02 | AR\_14 | mk\_rs56972888 |
| BRIP1\_03 | CSF1R\_02 | CDKN2A\_19 | CASP9\_27 | AHRR\_10 | AR\_15 | rs238388 |
| BRIP1\_05 | CSF1R\_03 | CDKN2A\_20 | CASP9\_28 | AKR1A1\_02 | CGA\_02 | GC\_02 |
| BRIP1\_09 | CSF1R\_05 | EGF\_02 | CSF2\_02 | AKR1C3\_01 | CGA\_03 | HIF1AN\_02 |
| BRIP1\_15 | CTLA4\_01 | EGF\_04 | CSF3\_02 | AKR1C3\_08 | CGA\_05 | NUBP1\_01 |
| CCNH\_01 | CTLA4\_07 | EGF\_08 | CSF3\_06 | AKR1C3\_11 | CGA\_06 | NUBP2\_01 |
| CCNH\_04 | CTLA4\_10 | EGFR\_03b | CTSB\_03 | AKR1C3\_17 | NCOA3\_01 | OCA2\_03 |
| CDK7\_01 | CTLA4\_16 | EGFR\_04 | CTSB\_10 | AKR1C3\_19 | NCOA3\_02 | OCA2\_07 |
| CHEK1\_01 | CTLA4\_17 | EGFR\_05 | DIO1\_01 | AKR1C3\_21 | NCOA3\_04 | OCA2\_23 |
| CHEK1\_02 | CTLA4\_19 | EGFR\_1808 | DIO1\_05 | AKR1C3\_24 | NR1H4\_05 | PCTP\_01 |
| CHEK1\_03 | CTLA4\_25 | EGFR\_529 | ESR1\_01 | AKR1C3\_26 | NR1H4\_18 | PCTP\_03 |
| ERCC1\_01b | GATA3\_04 | FBXW7\_01 | ESR1\_07 | AKR1C3\_28 | PGR\_01 | RGS17\_01 |
| ERCC1\_05 | GATA3\_04b | FBXW7\_02 | ESR1\_08 | AKR1C3\_29 | PGR\_05 | RGS17\_03 |
| ERCC1\_06 | GATA3\_10 | FBXW7\_04 | ESR1\_13 | AKR1C3\_30 | PGR\_07 | RGS5\_01 |
| ERCC2\_09 | GATA3\_21 | FBXW7\_05 | ESR1\_14 | AKR1C3\_31 | PGR\_11 | RGS6\_02 |
| ERCC3\_02 | GATA3\_23 | FBXW7\_44 | ESR1\_17 | AKR1C3\_33 | PGR\_12 | RGS6\_04 |
| ERCC3\_04 | GATA3\_25 | FOXC1\_02 | ESR1\_30 | AKR1C3\_35 | PGR\_14 | RGS6\_05 |
| ERCC4\_01 | GATA3\_27 | FOXC1\_06 | ESR1\_31 | AKR1C3\_36 | PGR\_15 | FOXA1\_05 |
| ERCC4\_15 | GATA3\_28 | FOXC1\_07 | ESR1\_34 | AKR1C4\_01 | PGR\_16 | FOXA1\_14b |
| ERCC5\_01 | GATA3\_29 | FOXC1\_09 | ESR2\_02 | ALAD\_01 | PGR\_17 | rs12630592 |
| ERCC5\_02b | GATA3\_43 | FOXC1\_13 | FOS\_02 | ALAD\_03 | PGR\_18 | rs16830683 |
| ERCC5\_05 | GATA3\_46 | FOXC1\_22 | FOS\_06 | ALAD\_10 | PGR\_20 | rs16830689 |
| ERCC6\_04 | GATA3\_68 | FOXC1\_23 | FOS\_08 | ALDH2\_08 | PGR\_21 | rs17204605 |
| ERCC6\_12 | GATA3\_76 | GHR\_01 | LITAF\_01 | ALOX12\_02 | PGR\_23 | rs17204878 |
| EXO1\_01 | HFE\_01 | GHR\_03 | LITAF\_02 | ALOX15\_02 | PGR\_24 | rs17810302 |
| EXO1\_02 | HFE\_04 | GHR\_110 | MPO\_04 | ALOX15\_12 | PGR\_26 | rs17810676 |
| FANCA\_02 | HFE\_07 | GHR\_113 | MX1\_01 | ALOX5\_02 | PGR\_27 | rs1801133 |
| FANCA\_03 | HFE\_08 | GHR\_16 | MX1\_03 | ALOX5\_06 | PGR\_28 | rs334535 |
| FANCA\_12 | IFNAR2\_01 | GHR\_21 | MX1\_04 | ALOX5\_10 | RXRA\_01 | rs4688047 |
| FANCA\_16 | IFNAR2\_06 | GHR\_25b | MX1\_07 | ALOX5\_11 | RXRA\_03 | rs6770314 |
| FANCA\_22 | IFNAR2\_10 | GHR\_27 | MX1\_08 | ALOX5\_12 | RXRB\_02 | rs6781942 |

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| FANCA\_25 | IFNG\_07 | GHR\_28 | MX1\_10 | ALOX5\_15 | RXRB\_11 | rs9851174 |
| FANCA\_28b | IFNGR1\_01 | GHR\_29 | MX1\_11 | ALOX5\_26 |  | SEP15\_02 |
| FANCA\_34 | IFNGR1\_05 | GHR\_30 | MX1\_22 | ALOX5\_28 |  | SEP15\_04 |
| FANCA\_35 | IFNGR2\_03 | GHR\_31 | MX1\_28 | AMACR\_01 |  | SEPP1\_01 |
| FANCA\_37 | IL10\_01 | GHR\_33 | NFKB1\_01 | AMACR\_02 |  | SEPP1\_02 |
| FANCA\_39 | IL10\_03 | GHR\_34 | NFKB1\_02 | AMACR\_03 |  | UCP3\_01 |
| HUS1\_01 | IL10\_05 | GHR\_45 | NFKB1\_09 | AMACR\_05 |  | UCP3\_02 |
| HUS1\_05 | IL10\_06 | GHR\_46 | NFKB1\_14 | AMACR\_08 |  | VDR\_07 |
| LIG1\_01 | IL10\_07 | GHR\_47 | NFKB1\_21 | AMACR\_09 |  | VDR\_12 |
| LIG1\_02 | IL10\_13 | GHR\_50 | NFKB1\_33 | AMACR\_17 |  | VIL2\_02 |
| LIG1\_03 | IL10\_17 | GHR\_77 | NFKBIE\_01 | AMT\_01 |  | VIL2\_03 |
| LIG1\_18 | IL10RA\_02 | GHR\_79 | NFKBIE\_02 | AMT\_06b |  | ZNF230\_01 |
| LIG1\_29 | IL10RA\_08 | GHR\_90 | NFKBIE\_03 | AMT\_10b |  | APC\_03 |
| LIG3\_08 | IL12A\_09 | GRPR\_01 | NFKBIE\_08 | APOA2\_02 |  | APC\_09 |
| LIG4\_01 | IL12B\_04 | GRPR\_02 | PAK6\_13 | APOA2\_04 |  | APC\_13 |
| MGMT\_03 | IL12B\_11 | HSPB8\_01 | PAK6\_14 | APOA2\_06 |  | APC\_19 |
| MGMT\_06 | IL13\_01 | HSU24186\_01 | PAK6\_16 | APOA4\_02 |  | APC\_26 |
| MGMT\_12 | IL13\_02 | ICAM1\_06 | PAK6\_19 | APOA4\_07 |  | AXIN2\_03 |
| MGMT\_19 | IL13\_03 | ICAM1\_15 | PAK6\_24 | APOB\_01 |  | AXIN2\_09 |
| MLH1\_02 | IL13\_06 | ICAM1\_16 | PAK6\_43 | APOB\_04 |  | AXIN2\_10 |
| MLH1\_05 | IL15\_01 | ICAM1\_19 | PIM1\_01 | APOB\_07 |  | AXIN2\_11 |
| MSH2\_03 | IL15\_02 | IGF1\_04 | PIM1\_03 | APOB\_08 |  | AXIN2\_12 |
| MSH2\_06 | IL15\_06 | IGF1\_11 | PIM1\_17 | APOB\_21 |  | AXIN2\_13 |
| MSH2\_08 | IL15\_07 | IGF1\_15 | PIM1\_25 | ATP1B2\_01 |  | AXIN2\_14 |
| MSH2\_09 | IL15\_10 | IGF1\_16 | PLA2G6\_02 | ATP1B2\_04 |  | GSK3B\_01 |
| MSH2\_10 | IL15RA\_02 | IGF1\_22 | PLA2G6\_08 | ATP1B2\_13 |  | GSK3B\_03 |
| MSH2\_12 | IL15RA\_04 | IGF1\_24 | PLA2G6\_10 | BHMT\_01 |  | GSK3B\_04 |
| MSH2\_13 | IL15RA\_05 | IGF1\_27 | PLA2G6\_12 | BHMT\_02 |  | GSK3B\_05 |
| MSH2\_14 | IL15RA\_06 | IGF1\_44 | PPP1R13L\_01 | BHMT\_04 |  | GSK3B\_07 |
| MSH2\_15 | IL1A\_01 | IGF1\_46 | PTH\_01 | CAT\_02 |  | GSK3B\_08 |
| MSH2\_16 | IL1A\_04 | IGF1R\_01 | PTH\_03 | CAT\_03 |  | GSK3B\_09 |
| MSH2\_18 | IL1B\_01 | IGF1R\_05 | PTH\_04 | CAT\_05 |  | GSK3B\_11 |
| MSH2\_19 | IL1B\_02 | IGF1R\_06 | SCARB1\_01 | CAT\_06 |  | GSK3B\_12 |
| MSH2\_20 | IL1B\_03 | IGF1R\_12 | SCARB1\_02 | CAT\_07 |  | GSK3B\_14 |

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| MSH2\_21 | IL1B\_08 | IGF1R\_18 | SCARB1\_03 | CAT\_15 | GSK3B\_15 |
| MSH3\_01b | IL1B\_09 | IGF1R\_26 | SCARB1\_08 | CBR1\_01 | GSK3B\_18 |
| MSH3\_02 | IL1B\_12 | IGF1R\_27b | SCARB1\_09 | CBR1\_10 | GSK3B\_19 |
| MSH3\_03 | IL1RN\_02 | IGF2\_02 | SRA1\_03 | CBR1\_11 | GSK3B\_20 |
| MSH3\_07 | IL1RN\_04 | IGF2\_03 | SRA1\_04 | CBR3\_01 | GSK3B\_22 |
| MSH3\_09 | IL1RN\_05 | IGF2\_09 | SRA1\_05 | CBS\_01 | GSK3B\_23 |
| MSH3\_12 | IL2\_01 | IGF2\_16 | SSTR3\_01 | CBS\_03 | GSK3B\_25 |
| MSH3\_29 | IL2\_03 | IGF2\_22 | SSTR3\_03 | CBS\_07 | GSK3B\_31 |
| MSH6\_01 | IL3\_01 | IGF2AS\_01 | TP53I3\_03 | CETP\_08 | GSK3B\_34 |
| MSH6\_04 | IL4\_01 | IGF2AS\_03 | TP53I3\_10 | CETP\_21 | GSK3B\_35 |
| NBS1\_01b | IL4\_02 | IGF2AS\_04b | TP53I3\_12 | CETP\_23 | GSK3B\_37 |
| NBS1\_02b | IL4\_03 | IGF2R\_02 | TP53I3\_13 | COMT\_01 | GSK3B\_38 |
| NBS1\_04b | IL4\_10 | IGF2R\_03 | TP53I3\_18 | COMT\_03 | GSK3B\_41 |
| NBS1\_13b | IL4\_11 | IGF2R\_04 | TP73L\_03 | COMT\_16 | GSK3B\_43 |
| OGG1\_12 | IL4R\_02 | IGF2R\_05 | TP73L\_13 | COMT\_28b | GSK3B\_44 |
| OGG1\_13 | IL4R\_03 | IGF2R\_07 | TP73L\_15 | COMT\_29 | GSK3B\_45 |
| PARP1\_01 | IL4R\_05 | IGF2R\_11 | TP73L\_16 | COMT\_43b | TNKS\_01 |
| PARP1\_06 | IL4R\_07 | IGFALS\_24 | TP73L\_17 | COMT\_58b | TNKS\_03 |
| PARP1\_10 | IL4R\_10 | IGFALS\_35 | TP73L\_26 | CTH\_01 | TNKS\_05 |
| PARP1\_12 | IL4R\_24 | IGFALS\_35b | TP73L\_28 | CTH\_03 | TNKS\_110 |
| PARP1\_13 | IL4R\_27 | IGFBP1\_01 | TP73L\_46 | CTH\_07 | TNKS\_124 |
| PARP1\_14 | IL6\_01 | IGFBP2\_25 | TP73L\_47 | CTH\_10 | TNKS\_13 |
| PARP4\_01 | IL6\_04 | IGFBP2\_26 | TP73L\_52 | CTH\_13 | TNKS\_15 |
| PARP4\_03 | IL6R\_04 | IGFBP2\_29 | rs7208422 | CTH\_14 | TNKS\_18 |
| PARP4\_17 | IL7R\_01 | IGFBP3\_04 | TP53\_01 | CYP17A1\_01 | TNKS\_20 |
| PARP4\_19 | IL7R\_08 | IGFBP5\_05 | TP53\_09 | CYP17A1\_08 | TNKS\_22 |
| PARP4\_23 | IL8\_01 | IGFBP5\_10 | TP53\_11 | CYP17A1\_10 | TNKS\_23 |
| PCNA\_06 | IL8\_05 | IGFBP6\_11b | TP53\_14 | CYP17A1\_11 | TNKS\_26 |
| PCNA\_07 | IL8\_11 | IGFBP6\_17 | TP53\_66 | CYP17A1\_12 | TNKS\_33 |
| PCNA\_10 | IL8RA\_04 | IGFBP6\_18 | TP53\_69 | CYP17A1\_13 | TNKS\_34 |
| PMS1\_15 | IL8RB\_01 | IGFBP6\_19 | FLJ10385\_08 | CYP19A1\_01 | TNKS\_35 |
| PMS1\_24 | IRF1\_03 | KRAS\_01 | FLJ10385\_11 | CYP19A1\_04 | TNKS\_36 |
| PMS1\_26 | IRF1\_05 | KRAS\_02 | PTEN\_01 | CYP19A1\_06 | TNKS\_38 |
| PMS1\_27 | IRF3\_01 | KRAS\_03 | PTEN\_10 | CYP19A1\_08 | TNKS\_46 |

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| PMS1\_28 | IRF3\_02 | KRAS\_04 | CYP19A1\_09 | TNKS\_64 |
| PMS1\_31 | IRF3\_12 | KRAS\_05 | CYP19A1\_14 | TNKS\_76 |
| PMS1\_47 | JAK3\_01 | KRAS\_06 | CYP19A1\_15 | CTNNB1\_01 |
| PMS1\_48 | JAK3\_02 | KRAS\_07 | CYP19A1\_16 | CTNNB1\_02 |
| PMS1\_49 | JAK3\_12 | KRAS\_08 | CYP19A1\_27 | CTNNB1\_03 |
| PMS1\_50 | LEP\_01 | KRAS\_09 | CYP19A1\_29 | CTNNB1\_07 |
| PMS1\_51 | LEPR\_01 | KRAS\_10 | CYP19A1\_30 | CTNNB1\_08 |
| PMS1\_52 | LEPR\_03 | KRAS\_11 | CYP19A1\_34 | CTNNB1\_11 |
| PMS1\_53 | LEPR\_04 | KRAS\_12 | CYP19A1\_36 | CTNNB1\_13 |
| PMS1\_54 | LEPR\_08 | KRAS\_13 | CYP19A1\_37 | CTNNB1\_14 |
| PMS1\_56 | LMO2\_01 | KRAS\_14 | CYP19A1\_38 | CTNNB1\_15 |
| PMS1\_57 | LMO2\_04 | KRAS\_15 | CYP19A1\_39 | CTNNB1\_16 |
| PMS1\_61 | LMO2\_08 | KRAS\_16 | CYP19A1\_40 | CTNNB1\_17 |
| PMS1\_62 | LMOD1\_03 | KRAS\_17 | CYP19A1\_41 | CTNNB1\_19 |
| PMS1\_63 | LTA\_01 | KRAS\_18 | CYP1A1\_14 | CTNNB1\_21 |
| PMS2\_01 | LTA\_05 | KRAS\_19 | CYP1A1\_15 | FZD7\_06 |
| PMS2\_10 | MASP1\_01 | KRAS\_20 | CYP1A1\_78 | FZD7\_10b |
| PMS2\_11 | MASP1\_07 | KRAS\_21 | CYP1A1\_81 | FZD7\_15 |
| POLB\_05 | MASP1\_09 | KRAS\_22 | CYP1A1\_91 | FZD7\_16 |
| POLB\_08 | MASP1\_21 | MDM2\_01 | CYP1B1\_03 | FZD7\_17 |
| POLB\_16 | MASP1\_42 | MET\_01 | CYP1B1\_07 | FZD7\_20 |
| POLD1\_13 | MASP1\_43 | MET\_04 | CYP1B1\_08 | CALCR\_01 |
| RAD23B\_02 | MASP1\_44 | MET\_13 | CYP1B1\_18 | CALCR\_03 |
| RAD23B\_03 | MASP1\_45 | MET\_26 | CYP1B1\_27 | CASR\_01 |
| RAD23B\_04 | MASP1\_46 | MYBL2\_03 | CYP1B1\_28 | CASR\_05 |
| RAD23B\_05 | MASP1\_47 | MYBL2\_06 | CYP1B1\_31 | CASR\_06 |
| RAD51\_01 | MASP1\_48 | MYBL2\_09 | CYP1B1\_99b | CASR\_07 |
| RAD51\_15 | MASP1\_49 | MYBL2\_19 | CYP24A1\_01 | CASR\_09 |
| RAD51\_16 | MASP1\_50 | MYBL2\_30 | CYP24A1\_03 | CASR\_11 |
| RAD51\_17 | MASP1\_52 | MYBL2\_31 | CYP24A1\_05 | CASR\_15 |
| RAD51\_20 | MASP1\_53 | MYBL2\_36 | CYP24A1\_08 | LDLR\_01 |
| RAD51\_21 | MASP1\_54 | MYBL2\_46 | CYP27B1\_01b | LDLR\_03 |
| RAD51\_22 | MBL2\_03 | MYC\_02 | CYP2C19\_03 | LDLR\_08 |
| RAD51\_23 | MBL2\_06 | PHB\_02 | CYP2C19\_08 | LDLR\_12 |

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| RAD51\_24 | MBL2\_09 | PIN1\_01 | CYP2D6\_52 | LDLR\_18 |
| RAD52\_01 | MBL2\_11 | PIN1\_02 | CYP2D6\_65 |  |
| RAD52\_07 | MBL2\_12 | PIN1\_16 | CYP2E1\_02 |  |
| RAD54L\_04 | MBL2\_27 | PIN1\_17 | CYP2E1\_07 |  |
| SOD1\_01 | MBL2\_30 | PIN1\_21 | CYP2E1\_31 |  |
| SOD2\_01 | MBL2\_38 | PLK1\_15 | CYP3A4\_57 |  |
| SOD2\_06 | MBL2\_44 | POT1\_02 | CYP3A7\_01 |  |
| SOD3\_05 | MBL2\_46 | POT1\_03 | CYP7B1\_01 |  |
| TYMS\_01 | MBL2\_65 | POT1\_05 | CYP7B1\_02 |  |
| TYMS\_05 | MSR1\_01 | POT1\_07 | CYP7B1\_03 |  |
| TYMS\_10 | MSR1\_02 | POT1\_09 | CYP7B1\_06 |  |
| XPA\_02 | OPRD1\_03 | POT1\_10 | DHDH\_02 |  |
| XPA\_6 | OPRD1\_05 | POT1\_11 | DHDH\_03 |  |
| XPC\_01 | OPRM1\_01 | POT1\_16 | DHFR\_07 |  |
| XPC\_03 | OPRM1\_02 | POT1\_18 | DHFR\_11 |  |
| XPC\_08 | OPRM1\_03 | POT1\_37 | ENPP1\_04 |  |
| xpc\_pat | OPRM1\_23 | RB1CC1\_10 | EPHX1\_01 |  |
| xpd\_312 | P2RX7\_10 | RB1CC1\_24b | EPHX1\_06 |  |
| xpd\_751 | PPARG\_06 | RB1CC1\_40 | EPHX1\_10 |  |
| xrcc1\_194 | PPARG\_07 | RB1CC1\_50 | EPHX1\_12 |  |
| xrcc1\_280 | PPARG\_11 | RERG\_03 | EPHX1\_14 |  |
| xrcc1\_399 | RAG1\_01 | RERG\_10 | EPHX1\_15 |  |
| xrcc1\_632 | rs698095 | RERG\_24 | EPHX1\_17 |  |
| xrcc1\_1678 | SLAMF1\_02 | RERG\_29 | EPHX1\_18 |  |
| xrcc1\_26602 | SLAMF1\_03 | RERG\_30 | EPHX1\_20 |  |
| XRCC1\_01 | SLAMF1\_04 | RERG\_31 | EPHX2\_04 |  |
| XRCC1\_07 | TGFBR1\_01 | RERG\_33 | FTHFD\_01b |  |
| xrcc3\_241 | TGFBR1\_03 | RERG\_36 | FTHFD\_03b |  |
| XRCC3\_03 | TGFBR1\_04 | RERG\_37 | FTHFD\_06b |  |
| XRCC3\_04 | TLR2\_04 | RERG\_41 | GPX1\_03b |  |
| XRCC4\_01 | TLR2\_05 | RERG\_44 | GPX1\_06 |  |
| XRCC4\_04 | TLR2\_06 | RERG\_47 | GPX2\_02 |  |
| XRCC4\_05 | TNFRSF6\_01b | ROS1\_03 | GPX2\_07 |  |
| XRCC4\_07 | TNFRSF6\_04b | ROS1\_04 | GPX2\_09 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| XRCC4\_10 | TNFRSF6\_09b | ROS1\_12 | GPX2\_13 |
| XRCC5\_02 | XBP1\_01 | ROS1\_14 | GPX2\_14 |
| XRCC5\_12 | XBP1\_02 | ROS1\_15 | GPX2\_16 |
| XRCC5\_14 | XBP1\_09 | ROS1\_18 | GPX2\_17 |
| XRCC5\_17 | XBP1\_10 | ROS1\_20 | GPX2\_18 |
| XRCC5\_19 | rs2289965 | rs5743072 | GPX2\_19 |
| rs1799802 | TNFSF6\_01 | SCUBE2\_02 | GPX2\_21 |
| rs1800067 | TNFRSF5\_01 | SCUBE2\_03 | GPX3\_04 |
| rs2020908 | TNFRSF1A\_02 | SCUBE2\_13 | GPX3\_16 |
| rs35717727 | TGFB1\_03 | STAT1\_01 | GPX3\_18 |
| MGC29463\_01 | TGFB1\_05 | STK11\_03 | GPX3\_21 |
| WRN\_01 | TGFB1\_09 | STK6\_02b | GPX3\_25 |
| WRN\_03b | CX3CR1\_01 | STK6\_03b | GPX3\_28 |
| WRN\_04 | CX3CR1\_02 | STK6\_04b | GPX4\_06 |
| WRN\_07 | CYBB\_09 | STK6\_06b | GPX4\_08 |
| WRN\_08 | CYBB\_11 | STK6\_08 | GPX4\_09 |
| ZNF350\_04 | CYBB\_27 | STK6\_15b | GPX4\_12 |
| ZNF350\_06 | CYBB\_28 | STK6\_16 | GSTA4\_01 |
| ZNF350\_08 | EDN1\_01 | TSG101\_07 | GSTA4\_02 |
| rs1801320 | EDN1\_02 | TSG101\_28 | GSTA4\_04 |
| rs2303428 | MEST\_03 | TSG101\_30 | GSTA4\_07 |
|  | NCF2\_04 | TSG101\_33 | GSTM3\_01 |
|  | NCF2\_05 | TSG101\_36 | GSTM3\_05 |
|  | RNASEL\_01 | TSG101\_40 | GSTM3\_06 |
|  | RNASEL\_02 | asa\_rs5601842 | GSTP1\_01 |
|  | SELE\_01 | rs602652 | GSTP1\_02 |
|  | SFTPD\_01 | rs640573 | gstp1\_105 |
|  | SFTPD\_03 | rs568419 | gstp1\_114 |
|  | TNF\_02 | rs966185 | GSTZ1\_02 |
|  | TNF\_09 | rs997669 | GSTZ1\_03 |
|  | TNF\_12 | rs1154232 | HADHA\_01 |
|  | TNF\_13 | rs2961663 | HADHA\_05 |
|  | TNIP1\_01 | rs3218036 | HADHA\_10 |
|  | TNIP1\_02 | rs3218076 | LCAT\_03 |

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| --- | --- | --- | --- | --- |
| VCAM1\_02 | rs3862792 | | | LCAT\_04 |
| VCAM1\_05 | rs4561519 | | | LCAT\_05 |
| VCAM1\_38 | rs6069717 | | | LIPC\_01 |
| VEGF\_04 | rs10818504 | | | LIPC\_02 |
| VEGF\_05 | rs12507582 | | | LIPC\_04 |
| VEGF\_19 | rs33923703 | | | LIPC\_06 |
| ZFPM1\_07 | TFF1\_01 | | | LIPC\_08 |
|  | TFF3\_02 | | | LIPC\_09 |
|  | INSR\_01 | | | LIPC\_17 |
|  | INSR\_05 | | | LIPC\_23 |
|  | INSR\_06 | | | LIPC\_25 |
|  | INSR\_07 | | | LIPC\_37 |
|  | INSR\_11 | | | LPL\_01 |
|  | INSR\_13 | | | LPL\_03 |
|  | INSR\_19 | | | LPL\_04 |
|  | INSR\_28 | | | LPL\_05 |
|  | INSR\_30 | | | LPL\_06 |
|  | INSR\_51 | | | LPL\_08 |
|  | INSR\_59 | | | LPL\_09 |
|  | INSR\_61 | | | LRP5\_01 |
|  | IRS1\_03 | | | LRP5\_04 |
|  | IRS1\_04 | | | LRP5\_06 |
|  | IRS1\_08 | | | LRP5\_07 |
|  | CSTF1\_08 | | | LRP5\_12 |
|  | CSTF1\_10 | | | LRP5\_15 |
|  | CSTF1\_21 | | | LRP6\_02 |
|  | CSTF1\_22 | | | LRP6\_03 |
|  | BCR\_01 | | | MAOA\_01 |
|  | BCR\_02 | | | MTHFD2\_01 |
|  | COL18A1\_01 | | | MTHFR\_02 |
|  | COL18A1\_02 | | | MTHFR\_03 |
|  | COL18A1\_03 | | | MTHFR\_07 |
|  | EFNB3\_01 | | | mth677 |
|  | EFNB3\_02 | | | mth1298 |
| FLJ32954\_01 | | MTRR\_05 |
| FLJ32954\_02 | | MTRR\_07 |
| GDF15\_01 | | MTRR\_10 |
| GDF15\_02 | | MTRR\_11 |
| KRT23\_03 | | MTRR\_19 |
| KRT23\_04 | | MTRR\_22 |
| MATR3\_01 | | NOS2A\_02 |
| MBD2\_01 | | NOS2A\_07 |
| MBD2\_02 | | NOS3\_01 |
| MBD2\_03 | | NOS3\_34 |
| MBD2\_04 | | NQO1\_07 |
| MBD4\_02 | | NQO1\_08 |
| MYNN\_01 | | NQO1\_15 |
| MYO5A\_01 | | PTGS1\_02 |
| MYO5A\_06 | | PTGS2\_05 |
| MYO5A\_07 | | PTGS2\_08 |
| NEDD5\_01 | | PTGS2\_19 |
| NINJ1\_01 | | PTGS2\_33 |
| NINJ1\_03 | | PTGS2\_44 |
| PDGFB\_05 | | SULT1A2\_09 |
| PTCH\_1315 | | asa\_rs15032 |
| PTCH\_2560 | | rs1208 |
| RAB15\_02 | | rs1695 |
| RAB15\_03 | | rs156697 |
| RAB15\_04 | | rs723077 |
| RAC1\_03 | | rs1046428 |
| RET\_01 | | rs1046778 |
| RET\_02 | | rs1177699 |
| VEGF\_04 | | rs1799929 |
| VEGF\_05 | | rs1801280 |
| VEGF\_19 | | rs2070676 |
| rs664143 | | rs2228332 |
| rs1798794 | | rs3177427 |

rs3740391

rs3740392 rs3740393 rs7085854 rs8192766 rs10152640 rs10745623 rs10748835 rs11191439 rs11191454 rs45455492 rs45520831 gstm1\_ex45del gstt1\_ex34del

TYR\_08b TFRC\_01 FUT2\_05

GGH\_01

GGH\_02

HMGCR\_01

HMGCR\_02

MPDU1\_01

PLA2G2A\_03

SAT2\_01

SAT2\_03

SOAT2\_01

SOAT2\_09

TGM1\_01

TGM1\_02

TYR\_02 UGT1A1\_24 rs1805087 rs2228099 rs2256355 rs2864873