|  |
| --- |
| Table S3. PAH-related genes. |
| symbol |
| AMY2B |
| MIRLET7F1 |
| RNA5SP343 |
| RNU5E-8P |
| RNU6-1083P |
| ZCCHC12 |
| AGR2 |
| ANLN |
| ARHGAP11A |
| ARHGAP11B |
| ASPM |
| ATAD5 |
| BLM |
| BORA |
| BRCA1 |
| BRCA2 |
| BRIP1 |
| BUB1 |
| BUB1B |
| C5orf34 |
| C6orf211 |
| C9orf64 |
| CASC5 |
| CCNA2 |
| CCNB2 |
| CDC6 |
| CDCA2 |
| CDK1 |
| CDKN3 |
| CENPE |
| CENPF |
| CENPK |
| CENPU |
| CEP135 |
| CEP55 |
| CEP78 |
| CHAC2 |
| CHEK1 |
| CHRNA5 |
| CKAP2L |
| DDIAS |
| DEK |
| DEPDC1 |
| DIAPH3 |
| DLEU1 |
| DLGAP5 |
| DTL |
| ECT2 |
| EIF3M |
| ELOVL6 |
| ESCO2 |
| EZH2 |
| FAM111B |
| FAM72B |
| FANCD2 |
| FANCI |
| FBXO16 |
| FBXO5 |
| GMNN |
| GSKIP |
| GTF2H3 |
| GTF3C6 |
| GUF1 |
| HDAC2 |
| HELLS |
| HMMR |
| KIAA1524 |
| KIF11 |
| KIF14 |
| KIF15 |
| KIF18A |
| KIF20A |
| KIF20B |
| KIF23 |
| KIF4A |
| KNTC1 |
| LACTB2 |
| MAD2L1 |
| MCM3 |
| MCM6 |
| MCM8 |
| ME1 |
| ME2 |
| MELK |
| MGME1 |
| MKI67 |
| MMS22L |
| MND1 |
| MRPL1 |
| MRS2 |
| MSH2 |
| MTBP |
| MTFR2 |
| NCAPG |
| NCAPG2 |
| NCAPH |
| NDC80 |
| NEIL3 |
| NEK2 |
| NRK |
| NUF2 |
| NUSAP1 |
| OLA1 |
| PARPBP |
| PBK |
| PLK4 |
| POLQ |
| PRC1 |
| PRIM2 |
| PRMT3 |
| PSMA4 |
| RAD18 |
| RAD51AP1 |
| RAD54B |
| RFC3 |
| RFC4 |
| RMND1 |
| RPL27A |
| SASS6 |
| SGOL1 |
| SGOL2 |
| SH2D4A |
| SHCBP1 |
| SKA3 |
| SMIM15 |
| SPAG5 |
| SPDL1 |
| SSR1 |
| STIL |
| SUCNR1 |
| TICRR |
| TOP2A |
| TPX2 |
| TTK |
| UBXN8 |
| UGT8 |
| VBP1 |
| VRK1 |
| WDHD1 |
| WDR41 |
| WDR76 |
| XPO1 |
| XPOT |
| XRCC2 |
| ZNF93 |
| ZWILCH |
| AAGAB |
| AASDHPPT |
| AASS |
| AATF |
| ABCA1 |
| ABCA5 |
| ABCA8 |
| ABCB1 |
| ABCB7 |
| ABCC4 |
| ABCC9 |
| ABCD3 |
| ABCE1 |
| ABCF2 |
| ABL2 |
| ACACA |
| ACADL |
| ACADM |
| ACADSB |
| ACAP2 |
| ACAT1 |
| ACAT2 |
| ACBD3 |
| ACBD5 |
| ACE2 |
| ACER3 |
| ACO1 |
| ACPP |
| ACSL1 |
| ACSL3 |
| ACSL4 |
| ACSM3 |
| ACSS3 |
| ACTR2 |
| ACTR3 |
| ACTR8 |
| ADAL |
| ADAM10 |
| ADAM12 |
| ADAM17 |
| ADAM23 |
| ADAM28 |
| ADAM9 |
| ADAMDEC1 |
| ADAMTS3 |
| ADAMTS5 |
| ADAMTS6 |
| ADAMTS9 |
| ADAT1 |
| ADD3 |
| ADK |
| ADRBK2 |
| ADSS |
| AFF4 |
| AGA |
| AGL |
| AGPAT5 |
| AGPS |
| AGR3 |
| AHCTF1 |
| AHCYL1 |
| AHCYL2 |
| AHI1 |
| AIDA |
| AIFM1 |
| AIM1 |
| AIM2 |
| AKAP11 |
| AKAP12 |
| AKAP13 |
| AKAP5 |
| AKAP6 |
| AKAP9 |
| ALAS2 |
| ALCAM |
| ALDH18A1 |
| ALDH1L2 |
| ALG11 |
| ALKBH8 |
| ALMS1 |
| ALPK1 |
| AMD1 |
| ANAPC1 |
| ANAPC1P1 |
| ANGPT1 |
| ANGPT2 |
| ANGPTL1 |
| ANK2 |
| ANK3 |
| ANKHD1 |
| ANKIB1 |
| ANKMY2 |
| ANKRD12 |
| ANKRD17 |
| ANKRD20A3 |
| ANKRD20A5P |
| ANKRD20A8P |
| ANKRD22 |
| ANKRD26 |
| ANKRD28 |
| ANKRD36 |
| ANKRD36C |
| ANKRD49 |
| ANKRD50 |
| ANO5 |
| ANP32E |
| AOX1 |
| AP1AR |
| AP3B1 |
| AP3M1 |
| AP4E1 |
| APC |
| API5 |
| APOOL |
| AQP4 |
| AQP9 |
| AQR |
| ARAP2 |
| ARCN1 |
| ARFGAP3 |
| ARFGEF1 |
| ARFGEF2 |
| ARG1 |
| ARHGAP10 |
| ARHGAP12 |
| ARHGAP15 |
| ARHGAP18 |
| ARHGAP21 |
| ARHGAP26 |
| ARHGAP28 |
| ARHGAP29 |
| ARHGAP42 |
| ARHGEF12 |
| ARHGEF38 |
| ARID2 |
| ARID4A |
| ARID4B |
| ARID5B |
| ARIH1 |
| ARL13B |
| ARMC8 |
| ARMCX4 |
| ARNTL2 |
| ARRDC3 |
| ARRDC4 |
| ARSK |
| ASAH2B |
| ASCC3 |
| ASH1L |
| ASPH |
| ASUN |
| ATAD2 |
| ATF6 |
| ATF7IP |
| ATG3 |
| ATG4A |
| ATIC |
| ATL1 |
| ATM |
| ATP10D |
| ATP11B |
| ATP11C |
| ATP13A3 |
| ATP13A4 |
| ATP1B1 |
| ATP2A2 |
| ATP2B1 |
| ATP2C1 |
| ATP6V1A |
| ATP6V1B2 |
| ATP6V1C1 |
| ATP6V1D |
| ATP7A |
| ATP8A1 |
| ATP8B1 |
| ATP8B4 |
| ATR |
| ATRX |
| AZI2 |
| BAAT |
| BACH1 |
| BANK1 |
| BAZ1A |
| BAZ1B |
| BAZ2B |
| BBX |
| BCAT1 |
| BCCIP |
| BCLAF1 |
| BDP1 |
| BECN1 |
| BICC1 |
| BIN2 |
| BIRC2 |
| BIRC3 |
| BIRC6 |
| BLOC1S6 |
| BLZF1 |
| BMS1 |
| BMX |
| BNC2 |
| BNIP2 |
| BNIP3L |
| BOD1L1 |
| BPGM |
| BRCC3 |
| BRD7 |
| BRIX1 |
| BRMS1L |
| BROX |
| BRWD1 |
| BRWD3 |
| BTAF1 |
| BTK |
| BZW1 |
| BZW2 |
| C10orf12 |
| C11orf57 |
| C12orf4 |
| C12orf5 |
| C18orf25 |
| C1GALT1 |
| C1orf27 |
| C21orf91 |
| C2CD5 |
| C2orf43 |
| C3 |
| C3orf17 |
| C3orf38 |
| C3orf52 |
| C3orf62 |
| C5 |
| C5orf42 |
| C6 |
| C7 |
| C7orf63 |
| C8orf34 |
| C9orf72 |
| CA1 |
| CA3 |
| CAB39 |
| CACHD1 |
| CACNA2D1 |
| CACYBP |
| CADPS2 |
| CALD1 |
| CALU |
| CAMSAP2 |
| CAND1 |
| CANX |
| CAPN3 |
| CAPN7 |
| CAPRIN1 |
| CAPRIN2 |
| CAPZA2 |
| CASK |
| CASP1 |
| CASP3 |
| CASP4 |
| CASP5 |
| CASP8AP2 |
| CAST |
| CATSPERB |
| CBWD1 |
| CBWD5 |
| CBX1P1 |
| CBX5 |
| CC2D2A |
| CCBL2 |
| CCDC102B |
| CCDC112 |
| CCDC125 |
| CCDC132 |
| CCDC14 |
| CCDC141 |
| CCDC144A |
| CCDC144CP |
| CCDC144NL |
| CCDC146 |
| CCDC15 |
| CCDC171 |
| CCDC176 |
| CCDC18 |
| CCDC186 |
| CCDC25 |
| CCDC30 |
| CCDC43 |
| CCDC47 |
| CCDC59 |
| CCDC66 |
| CCDC80 |
| CCDC88A |
| CCDC93 |
| CCNC |
| CCNE2 |
| CCNG1 |
| CCNH |
| CCNL1 |
| CCNT1 |
| CCNT2 |
| CCP110 |
| CCPG1 |
| CCSER1 |
| CCSER2 |
| CCT2 |
| CCT3 |
| CCT4 |
| CCT5 |
| CCT6A |
| CCT8 |
| CD109 |
| CD163 |
| CD180 |
| CD226 |
| CD2AP |
| CD36 |
| CD38 |
| CD84 |
| CD86 |
| CD96 |
| CDADC1 |
| CDC27 |
| CDC40 |
| CDC42BPA |
| CDC5L |
| CDCA7L |
| CDH2 |
| CDH6 |
| CDK5RAP2 |
| CDKL2 |
| CDKL5 |
| CDKN2AIP |
| CDON |
| CDRT4 |
| CEBPZ |
| CENPC |
| CENPJ |
| CENPL |
| CENPN |
| CENPW |
| CEP112 |
| CEP120 |
| CEP128 |
| CEP152 |
| CEP162 |
| CEP170 |
| CEP192 |
| CEP290 |
| CEP350 |
| CEP57 |
| CEP57L1 |
| CEP70 |
| CEP83 |
| CEP97 |
| CFH |
| CFHR1 |
| CFHR3 |
| CFI |
| CFTR |
| CGNL1 |
| CHCHD3 |
| CHD1 |
| CHD1L |
| CHD2 |
| CHD4 |
| CHD6 |
| CHD7 |
| CHD8 |
| CHD9 |
| CHL1 |
| CHM |
| CHML |
| CHMP2B |
| CHORDC1 |
| CHUK |
| CHURC1 |
| CILP |
| CIR1 |
| CIRH1A |
| CKAP2 |
| CKAP5 |
| CLASP2 |
| CLCN3 |
| CLCN5 |
| CLDN1 |
| CLEC2D |
| CLEC4D |
| CLHC1 |
| CLIC2 |
| CLINT1 |
| CLIP1 |
| CLK4 |
| CLMP |
| CLOCK |
| CLPX |
| CLTC |
| CMAHP |
| CMSS1 |
| CMYA5 |
| CNDP2 |
| CNOT1 |
| CNOT6L |
| CNR1 |
| CNST |
| CNTLN |
| CNTN1 |
| CNTN4 |
| CNTRL |
| COA7 |
| COBLL1 |
| COG5 |
| COG6 |
| COIL |
| COL12A1 |
| COL14A1 |
| COL3A1 |
| COL4A3BP |
| COL5A2 |
| COL6A3 |
| COL8A1 |
| COLEC12 |
| COPA |
| COPB1 |
| COPB2 |
| COPS2 |
| COPS4 |
| CORO1C |
| CP |
| CPD |
| CPM |
| CPNE3 |
| CPSF2 |
| CPSF3 |
| CPXM1 |
| CR1 |
| CR1L |
| CREBRF |
| CRISP3 |
| CRNKL1 |
| CRYBG3 |
| CSDE1 |
| CSE1L |
| CSGALNACT1 |
| CSTF3 |
| CTDSPL2 |
| CTNNA1 |
| CTNNAL1 |
| CTNNB1 |
| CTPS1 |
| CTR9 |
| CTSE |
| CTSK |
| CTSL |
| CTSS |
| CTTNBP2 |
| CUL1 |
| CUL2 |
| CUL3 |
| CWC22 |
| CWC27 |
| CWF19L2 |
| CXADR |
| CYB5R4 |
| CYBB |
| CYCS |
| CYLD |
| CYP7B1 |
| CYTIP |
| DAAM1 |
| DAPP1 |
| DARS |
| DBF4 |
| DBT |
| DCAF6 |
| DCLK1 |
| DCLRE1A |
| DCTN4 |
| DCUN1D3 |
| DDX1 |
| DDX10 |
| DDX18 |
| DDX20 |
| DDX21 |
| DDX23 |
| DDX24 |
| DDX3X |
| DDX42 |
| DDX46 |
| DDX47 |
| DDX5 |
| DDX52 |
| DDX58 |
| DDX60 |
| DDX60L |
| DENND4A |
| DENND4C |
| DGKH |
| DHRS9 |
| DHX15 |
| DHX29 |
| DHX32 |
| DHX36 |
| DHX57 |
| DHX8 |
| DHX9 |
| DIAPH2 |
| DICER1 |
| DIEXF |
| DIS3 |
| DIS3L |
| DKC1 |
| DLD |
| DLG1 |
| DLG2 |
| DMD |
| DMTF1 |
| DMXL1 |
| DMXL2 |
| DNA2 |
| DNAH14 |
| DNAH5 |
| DNAJA1 |
| DNAJC10 |
| DNAJC13 |
| DNAJC2 |
| DNAJC21 |
| DNAJC28 |
| DNAJC3 |
| DNAJC7 |
| DNM1L |
| DNTTIP2 |
| DOCK10 |
| DOCK11 |
| DOCK2 |
| DOCK5 |
| DOCK7 |
| DOCK8 |
| DOCK9 |
| DOPEY1 |
| DPH3 |
| DPP4 |
| DPP8 |
| DPYD |
| DSC2 |
| DSE |
| DSEL |
| DSG2 |
| DSP |
| DST |
| DTX3L |
| DYNC1H1 |
| DYNC2H1 |
| DZIP3 |
| E2F6 |
| EBNA1BP2 |
| ECD |
| ECHDC1 |
| ECI2 |
| ECM2 |
| EDEM3 |
| EDRF1 |
| EEA1 |
| EEF1A1P13 |
| EFCAB13 |
| EFCAB7 |
| EFR3A |
| EFTUD1 |
| EGF |
| EGFL6 |
| EHBP1 |
| EHF |
| EIF1AX |
| EIF2A |
| EIF2AK2 |
| EIF2AK3 |
| EIF2AK4 |
| EIF2B3 |
| EIF2S1 |
| EIF2S2 |
| EIF2S2P4 |
| EIF3A |
| EIF3D |
| EIF3E |
| EIF3J |
| EIF3L |
| EIF4A3 |
| EIF4B |
| EIF4G2 |
| EIF5 |
| EIF5B |
| ELF1 |
| ELL2 |
| ELL2P1 |
| ELMOD2 |
| ELOVL2 |
| ELOVL7 |
| ELTD1 |
| EMB |
| EMC2 |
| EML4 |
| ENDOD1 |
| ENOX2 |
| ENPEP |
| ENPP1 |
| ENTPD1 |
| ENTPD7 |
| EPB41 |
| EPB41L2 |
| EPB41L3 |
| EPC2 |
| EPHA3 |
| EPHA4 |
| EPM2AIP1 |
| EPRS |
| EPS15 |
| EPS8 |
| EPT1 |
| ERAP2 |
| ERBB2IP |
| ERBB4 |
| ERC1 |
| ERCC4 |
| ERCC5 |
| ERCC6 |
| ERCC6L2 |
| ERGIC2 |
| ERI1 |
| ERI2 |
| ERLIN1 |
| ERO1L |
| ERV3-1 |
| ESCO1 |
| ESF1 |
| ETAA1 |
| ETF1 |
| ETFDH |
| EVI5 |
| EXOC1 |
| EXOC2 |
| EXOC4 |
| EXOC5 |
| EXOC5P1 |
| EXOC6B |
| EXOSC9 |
| EXPH5 |
| EZR |
| F13A1 |
| FABP3 |
| FAM102B |
| FAM111A |
| FAM118B |
| FAM129A |
| FAM133B |
| FAM134B |
| FAM135A |
| FAM13A |
| FAM13B |
| FAM171B |
| FAM175A |
| FAM175B |
| FAM177A1 |
| FAM179B |
| FAM184A |
| FAM198B |
| FAM204A |
| FAM208B |
| FAM210A |
| FAM214A |
| FAM21A |
| FAM35A |
| FAM35DP |
| FAM46C |
| FAM49A |
| FAM49B |
| FAM60A |
| FAM65B |
| FAM83B |
| FAM91A1 |
| FAM98A |
| FANCM |
| FAP |
| FAR1 |
| FAR2 |
| FARSB |
| FAS |
| FASTKD2 |
| FAT1 |
| FAT4 |
| FBN1 |
| FBXL3 |
| FBXL5 |
| FBXO11 |
| FBXO30 |
| FBXO32 |
| FBXO34 |
| FBXO38 |
| FBXO45 |
| FBXO48 |
| FCGR3A |
| FCHO2 |
| FEM1C |
| FER |
| FERMT2 |
| FGD4 |
| FGD6 |
| FGF7 |
| FGF7P2 |
| FGL2 |
| FH |
| FHL5 |
| FIG4 |
| FIGN |
| FIGNL1 |
| FILIP1 |
| FILIP1L |
| FKBP14 |
| FKBP5 |
| FKTN |
| FLJ45950 |
| FLRT2 |
| FLRT3 |
| FLT1 |
| FMN1 |
| FMNL2 |
| FMO1 |
| FMO5 |
| FMR1 |
| FNBP1L |
| FNDC3A |
| FNDC3B |
| FNIP1 |
| FNIP2 |
| FOXP2 |
| FREM2 |
| FRK |
| FRMD4B |
| FRS2 |
| FRY |
| FRYL |
| FSIP2 |
| FSTL1 |
| FUT8 |
| FXR1 |
| FYB |
| FYTTD1 |
| G2E3 |
| G3BP1 |
| G3BP2 |
| GABPA |
| GABPB1 |
| GALNT1 |
| GALNT15 |
| GALNT3 |
| GALNT5 |
| GALNT7 |
| GAPT |
| GAPVD1 |
| GAREM |
| GARS |
| GART |
| GAS2L3 |
| GBE1 |
| GBP1 |
| GBP2 |
| GBP3 |
| GBP5 |
| GCA |
| GCC2 |
| GCFC2 |
| GCLC |
| GCNT1 |
| GCNT2 |
| GDAP2 |
| GDI2 |
| GEM |
| GEMIN5 |
| GEN1 |
| GFM1 |
| GFM2 |
| GFPT1 |
| GGNBP2 |
| GIGYF2 |
| GK |
| GLCE |
| GLIPR1 |
| GMPS |
| GNAI3 |
| GNL2 |
| GNL3 |
| GNPAT |
| GNPDA2 |
| GNPNAT1 |
| GNPTAB |
| GOLGA4 |
| GOLGA5 |
| GOLGB1 |
| GOLIM4 |
| GOLM1 |
| GOLT1B |
| GOPC |
| GORAB |
| GPATCH11 |
| GPATCH2 |
| GPATCH4 |
| GPBP1 |
| GPD2 |
| GPN3 |
| GPNMB |
| GPR110 |
| GPR116 |
| GPR125 |
| GPR171 |
| GPR34 |
| GPR98 |
| GPRIN3 |
| GPSM2 |
| GPX8 |
| GRAMD1C |
| GRAMD3 |
| GRHL2 |
| GRPEL1 |
| GSAP |
| GSPT1 |
| GTF2H1 |
| GTF2I |
| GTF3C3 |
| GTPBP4 |
| GUCY1A3 |
| GYPA |
| HADHA |
| HARS |
| HAT1 |
| HAUS6 |
| HAVCR2 |
| HBA2 |
| HBB |
| HBD |
| HBG2 |
| HBP1 |
| HBS1L |
| HCFC2 |
| HDLBP |
| HDX |
| HEATR1 |
| HEATR5A |
| HEATR5B |
| HECTD1 |
| HELZ |
| HERC1 |
| HERC3 |
| HGF |
| HIBCH |
| HIF1A |
| HIPK3 |
| HIVEP1 |
| HK2 |
| HLTF |
| HMCN1 |
| HMGB1 |
| HMGB1P1 |
| HMGB2 |
| HMGCR |
| HMGCS1 |
| HMGN2P28 |
| HNRNPA1 |
| HNRNPA1L2 |
| HNRNPA1P12 |
| HNRNPA1P8 |
| HNRNPA2B1 |
| HNRNPA3 |
| HNRNPA3P1 |
| HNRNPH2 |
| HNRNPH3 |
| HNRNPR |
| HNRNPU-AS1 |
| HNRNPU |
| HOOK1 |
| HOOK3 |
| HP |
| HPS3 |
| HSD17B4 |
| HSDL2 |
| HSP90AA1 |
| HSP90AA2 |
| HSP90AA4P |
| HSP90AA6P |
| HSP90AB1 |
| HSP90AB3P |
| HSP90B1 |
| HSPA13 |
| HSPA4 |
| HSPA4L |
| HSPA5 |
| HSPA8 |
| HSPA9 |
| HSPD1 |
| HSPD1P1 |
| HSPH1 |
| HTATSF1 |
| HTR2A |
| IARS |
| IARS2 |
| IBTK |
| ICA1 |
| ICE1 |
| ICE2 |
| IDE |
| IDH1 |
| IDI1 |
| IFI16 |
| IFIH1 |
| IFIT1B |
| IFIT3 |
| IFIT5 |
| IFNAR1 |
| IFNGR1 |
| IFRD1 |
| IFT57 |
| IFT74 |
| IFT80 |
| IGBP1P1 |
| IGF1 |
| IGSF6 |
| IKBKAP |
| IKZF5 |
| IL18 |
| IL18RAP |
| IL1R1 |
| IL1RAP |
| IL2RA |
| IL6ST |
| IL7R |
| IMMT |
| IMPA1 |
| IMPA1P |
| IMPACT |
| IMPDH2 |
| INADL |
| ING2 |
| ING3 |
| INHBA |
| INPP4B |
| INTS12 |
| INTS6 |
| INTS7 |
| INVS |
| IPCEF1 |
| IPO11 |
| IPO5 |
| IPO7 |
| IPO8 |
| IQCB1 |
| IQCG |
| IQGAP1 |
| IQGAP2 |
| IRAK3 |
| IRAK4 |
| IREB2 |
| ITGA2 |
| ITGA4 |
| ITGA6 |
| ITGAV |
| ITGB1 |
| ITGB3 |
| ITGB6 |
| ITGB8 |
| ITK |
| ITPR1 |
| ITPR2 |
| ITSN1 |
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