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Supplementary Table S5. Notable expression changes after DKK1 treatment in T cells.

Expression changes in T cells from dMMR1	Expression changes in T cells from healthy donor	Overlap
SLC7A11	*ISG15*	*ZNF366*
LAMP3	*IFI6*	*ENSG00000257764.2*
TNFAIP2	*OAS3*	*ABCA1*
SLC22A23	*EPS8*	*IGLV3-1*
RASSF4	*MX1*	*GFRA2*
DST	*ENSG00000266918.1*	*ENSG00000271584.1*
TGM2	*ZNF257*	*GRAMD2*
ZNF366	*ENSG00000270107.1*	*CPQ*
NRP2	*TRAJ39*	*ENSG00000259314.1*
SYNPO2	*PTPRG*	*CDC42BPB*
EHF	*IFI44L*	*PDCD1*
DAPK1	*FAHD2CP*	*ENSG00000266980.1*
NAV1	*LINC00565*	*ZEB2-AS1*
PSD3	*TCF7L2*	*ENSG00000272717.1*
FLT3	*RARA-AS1*	
CSF2RA	*ATP11C*	
CD274	*ENSG00000250950.1*	
SPRED2	*IGKV2-26*	
SLC6A12	*LOC100507387*	
DUSP1	*PARD6A*	
INSM1	*IRF7*	
C6orf223	*ZNF625*	
SPHK1	*ENSG00000272265.1*	
CRLF2	*C11orf42*	
ADAMTSL4	*ENSG00000240618.1*	
MARCKS	*SLC30A6*	
LYZ	*SNORD124*	
FOSL2	*OAS1*	
DLL4	*TMSB4XP6*	
ENSG00000257764.2	*GRB7*	
TTYH2	*ENSG00000265204.1*	
CD80	*ZNF485*	
ITGA9	*PLEKHN1*	
CXCL16	*B3GALNT1P1*	
IL13RA1	*ENSG00000259802.1*	
NECTIN2	*MYLK2*	
CCL22	*A2MP1*	
PVR	*CEP44*	
C10orf10	*ENSG00000272030.1*	

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ANPEP	*ENSG00000270018.1*
IGHG4	*SNORD76*
IL1RN	*MIR4461*
LAD1	*ZFP30*
ITIH1	*DPH3P1*
HLX	*MIR3613*
IGHV2-5	*RPL7AP50*
SLC26A9	*ENSG00000223511.1*
GPR157	*LY6E*
SOCS2	*RGAG4*
SLC15A3	*ENSG00000273027.1*
BAALC	*ENSG00000267383.2*
LINC01181	*ENSG00000254559.1*
ASAP2	*IDNK*
NEURL3	*GNAO1*
TNNT2	*SDK2*
CTTNBP2NL	*OGDHL*
CCL19	*ENSG00000261691.1*
ENSG00000254287.1	*ENSG00000229299.2*
ABTB2	*LOC613266*
NOL3	*TPM3P5*
IL3RA	*DUSP23*
BAHCC1	*CSF1R*
NCS1	*ZNF23*
ETS2	*ENSG00000273212.1*
CDKN1A	*IFI35*
LRRK1	*ENSG00000226803.3*
RNF19B	*HIST1H2AI*
CFP	*LYPLA2P1*
TNS3	*ZEB2-AS1*
IL1R1	*ENSG00000257027.1*
HMOX1	*NUDT1*
MMP14	*H3F3AP2*
LY75	*CD1C*
ACVRL1	*ENSG00000257354.1*
ARPIN	*SMAD9*
IGLC2	*LOC103344931*
IGHA2	*NUP62CL*
IL4I1	*MIR3064*
SOCS3	*NPAT*
GADD45A	*CDC42BPB*
IDO1	*MDK*
NELL2	*ENSG00000261924.1*
CILP2	*TMEM5-AS1*

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INHBA	*ENSG00000259314.1*
FSCN1	*ENSG00000253982.1*
IGLC1	*ZNF366*
IGKV1-9	*LGALS9*
LY75-CD302	*CCDC127*
CCNE2	*HSPD1P4*
C15orf48	*GFRA2*
VMO1	*CPQ*
PANX2	*CEP290*
IGLV1-51	*POLR2M*
CKB	*HMGN3-AS1*
GUCY1A3	*EPB41L4A-AS2*
DCANP1	*FBXW7-AS1*
SOD2	*RPS18P14*
IGKC	*TMEM132A*
ITGB8	*MTFMT*
SVEP1	*CYP27A1*
IGHV3-15	*LOC100506142*
SPI1	*ZNF584*
MAFF	*LOC646666*
IGKV3D-11	*MYLK4*
PAPLN	*ENSG00000272476.1*
IGHA1	*ENSG00000257764.2*
LTBR	*ZNF614*
SLFN12L	*H3F3AP4*
TSKU	*ZBTB47*
IGLV1-44	*LINC00265*
AFDN	*YES1*
MIR34AHG	*ZNF555*
TMCC2	*ZNF528*
CST3	*GSTA4*
PIR	*ENSG00000248358.2*
IGHG2	*MIR4721*
IFNG	*MFAP5*
FNIP2	*S100A8*
WNT5A	*TRBV1*
IGLL5	*HOXB3*
TGFA	*LOC100420528*
TRIP10	*SCN4A*
DSE	*IFIT3*
IGHV4-39	*SNORD44*
C10orf25	*SNX16*
LOC101930114	*EIF5AL1*
CFL2	*ENSG00000257831.1*

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MREG	*DENND5B-AS1*
PALLD	*USP10P2*
PLAT	*ENSG00000266903.1*
SUB1P4	*JMJD4*
ENSG00000258885.1	*SCARNA9*
FCHO2	*ENSG00000254551.1*
IGLV3-25	*ENSG00000263325.1*
BHLHA15	*OMG*
BICDL1	*ENSG00000273415.1*
FRMD5	*ENSG00000225377.1*
CREG1	*CD46*
DPYSL2	*MADCAM1*
MGLL	*ENSG00000268149.1*
ENSG00000253364.1	*HSPA6*
DUSP5	*NCAM1*
PRKCDBP	*RNF165*
PILRA	*GCOM1*
TCF7	*MTVR2*
IGHV3-74	*B4GALT2*
IGLV1-50	*ATP10D*
GNB4	*ENSG00000273343.1*
OGFRL1	*LAP3*
NPR1	*KLHL7*
CYP27B1	*ENSG00000254298.1*
HMGB1P10	*TRIP11*
CIITA	*ERFE*
IGKV3D-15	*ARSK*
SNX29P1	*GPR63*
GNG8	*GLIDR*
TLR8	*ENSG00000266261.1*
GJA4	*ENSG00000228318.1*
ENSG00000248175.1	*TMEM255A*
HCK	*LOC100506258*
RNF217	*CD300LB*
FBN1	*GLB1L3*
IGHV3-72	*ENSG00000237914.1*
IGHV3-11	*ATE1*
PIH1D2	*ZBED3*
SLC31A2	*ALG10B*
NET1	*ENSG00000268520.1*
IGHG1	*ENSG00000228838.1*
ALPK2	*NPM1P6*
ENSG00000232415.1	*ZNF624*
CD83	*ENSG00000271360.1*

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MTSS1L	*PDCD1*
ADAM9	*MIER3*
IGF2BP2	*ATP8*
ARNT2	*ENSG00000269296.1*
PPP1R26P1	*TSPAN4*
TMPRSS13	*BACE1*
MMP7	*ENSG00000228878.3*
CCDC88A	*RPL5P34*
TALAM1	*RPL34P14*
ENSG00000267257.1	*SNORD50B*
MALAT1	*VWDE*
LOC101929231	*ENSG00000268573.1*
FSTL4	*ABCA1*
ENSG00000228107.1	*ENSG00000270179.1*
ENSG00000234290.2	*USP18*
ATF3	*ENSG00000259992.1*
ENSG00000269974.1	*BRWD1*
ZNF618	*CCDC122*
ABCA1	*TRNAY13*
ZNF516	*DRAP1*
CD7	*LOC730069*
SLC41A2	*CSPG4P11*
CTSL	*ERICH1*
CHST7	*XAF1*
IGHV3-73	*MMP28*
PRPS1P2	*ENSG00000271584.1*
GRASP	*ENSG00000259230.1*
APBA2	*FBXO6*
PLXNB2	*LBHD1*
NTRK2	*FAM76B*
ANKRD20A5P	*HUS1B*
HLX-AS1	*MST1R*
ID2-AS1	*LINC00521*
TBC1D8	*ENSG00000260534.1*
ENSG00000231595.1	*ENSG00000271882.1*
ENSG00000230084.1	*ENSG00000255966.1*
OSCAR	*G2E3*
DBN1	*OR5B21*
ENSG00000264272.1	*CMPK2*
TNFSF4	*ELOVL6*
LINC-PINT	*MARCKSL1P1*
PECAM1	*CMTM7*
C8orf88	*ENSG00000203362.2*
TBX6	*ENSG00000250260.1*

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TYMP	*CNST*
IGKV1D-17	*ENSG00000228719.1*
MUSTN1	*LINC01136*
MAL	*ENSG00000267724.1*
C1orf53	*INPP5J*
ENSG00000259053.1	*ENSG00000232995.3*
ENSG00000234281.1	*CD320*
UBE2V1P1	*ZHX1*
ENSG00000241481.2	*MX2*
DAB2	*FAM13A-AS1*
MBOAT2	*CNIH3*
LEF1	*LOC101928403*
IRAK3	*RPL7P7*
LINC01572	*ENSG00000255503.1*
HPGDS	*FSBP*
ENSG00000258919.1	*FZD3*
CD27-AS1	*MIR6881*
ASAH2B	*PLXNB1*
IGLV3-10	*PGAM1P10*
HIST1H4A	*RPS7P3*
SMIM24	*ENSG00000267246.1*
ZSCAN26	*PHTF2*
ENSG00000231486.3	*ZNF221*
LHX2	*TNK2*
MCF2L2	*DHRS11*
FOXD4L1	*PITX1*
PRKAG2-AS1	*ZNF566*
RNF144B	*SUMO4*
WNT8B	*ENSG00000237094.7*
SEMA6B	*UGT8*
ARNTL2	*LOC105374366*
ENSG00000228830.1	*RSAD2*
GPR153	*ERP27*
IL6R	*TREX2*
NOS1AP	*ENSG00000254452.1*
CD248	*DPY19L2P3*
CD27	*CCDC154*
CYP2S1	*ENSG00000228906.1*
ENSG00000234936.1	*CCZ1*
CAMK1G	*ENSG00000214797.3*
ENSG00000261786.1	*LOC100419935*
SERPINA1	*CDK20*
RPL21P7	*ANKLE1*
LDLRAP1	*ENSG00000272483.1*

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SNORD80	*YBX1P2*
CCL17	*ENSG00000251034.1*
GNG4	*ENSG00000230551.3*
CDC42EP1	*MALT1*
PLAU	*DDIAS*
GPR137B	*FLJ42393*
ACOXL	*ZFYVE16*
CHML	*MIR8075*
ACHE	*PRDX2P1*
LINC00969	*GOLGA8O*
COL18A1	*TMPRSS11E*
GPR55	*ENSG00000270953.1*
NLRP6	*CCT6B*
POGLUT1	*GOLGB1*
EREG	*PPIH*
LOC101927817	*ENSG00000270081.1*
ENSG00000259287.1	*OASL*
ENSG00000263307.1	*ENPP4*
FSD1L	*RANP1*
LINC00467	*XIRP1*
TTC25	*ENSG00000254340.1*
TLE3	*SIAH3*
GJC2	*KRT74*
IGHV4-30-2	*ENSG00000269038.1*
ENSG00000271975.1	*NAT6*
MAP4K3	*TTC21A*
DAPP1	*ENSG00000266980.1*
FASTKD1	*ENSG00000238005.2*
FHL3	*EEF1A1P3*
SIRPG	*ENSG00000267439.1*
ZNF731P	*ENSG00000263787.1*
TRDJ4	*ENSG00000265401.1*
LINC01366	*RNU6-45P*
ENSG00000272846.1	*ENSG00000271912.1*
ENSG00000268191.1	*AAAS*
PDCD1LG2	*GCSAML*
IGLV3-1	*ENSG00000244380.1*
DERL3	*IL23A*
KBTBD8	*ENSG00000253924.1*
FBXO39	*ANKS1B*
ETV3	*RPL21P76*
COL6A2	*ANKEF1*
TRAM2	*LOC102724153*
LAYN	*CYB5D1*

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FADS1	*CHAD*
IL3	*POLR2J*
KRT8P33	*DHX58*
GFRA2	*ENSG00000224746.1*
ENSG00000260296.1	*ENSG00000268204.1*
SULF2	*ATP1B1P1*
SPSB1	*KDM4D*
TUBB2B	*TARBP2*
LOC283887	*VPS54*
SPDYE2	*STRADB*
FMN1	*ENSG00000227388.2*
ENSG00000225205.1	*ZNF708*
NIPSNAP3B	*AHI1*
CHPF	*ZNF286A*
IGLV1-40	*MAFB*
LDLRAD3	*OVCH1-AS1*
LEF1-AS1	*ENSG00000267767.2*
TFPI	*ENSG00000232342.3*
ENSG00000233922.1	*CCL23*
NFKBID	*TUBG2*
ENSG00000267042.1	*TMEM39A*
TMCC3	*ENSG00000233755.1*
IGHG3	*LIF*
CDYL2	*ENSG00000269867.1*
ENSG00000260400.1	*MFSD7*
ENSG00000205537.2	*ENSG00000241357.1*
TMEM176B	*ZNF493*
LPAR1	*ENSG00000227285.1*
PLXNB3	*ZNF12*
SNHG3	*TXNDC16*
SHC4	*ENSG00000236358.1*
ENSG00000257495.1	*ISG20*
UBAC2-AS1	*XKR5*
TRPM4	*DMXL1*
TCEA3	*ENSG00000238261.5*
DYX1C1	*ENSG00000255348.1*
CXCR3	*ENSG00000248996.1*
CXCL13	*RPS2P32*
ENSG00000227066.1	*TREX1*
LINC00243	*LOC389473*
LINC01762	*SUGT1P2*
ENSG00000253686.1	*CCNK*
LINC00176	*LRRC70*
MSC	*ANP32A-IT1*

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AAED1	*SESN3*
ENSG00000235257.4	*PHTF1*
LOC102723582	*DDO*
FCGBP	*RMDN2*
ENSG00000266236.1	*TMEM163*
ENSG00000271584.1	*RHD*
TLR5	*USP43*
LOC100129085	*LSMEM2*
GHET1	*ENSG00000253194.1*
SPINT1	*ENSG00000267480.1*
IGHV4-34	*LINC01252*
MMD	*ENSG00000255882.1*
IGHV3-23	*VPS8*
ZNF582-AS1	*ADAMTS7*
SOCS4	*MIR324*
MIR4517	*LOC101929516*
CXCL1	*NDUFA3*
PIR-FIGF	*PLEKHO1*
ALDH2	*SLC12A3*
PLXND1	*NPM1P44*
C10orf95	*IGHV1-69*
ITGAV	*EPM2AIP1*
ATP8B4	*CDIPT-AS1*
BORA	*MT1M*
TC2N	*LCA5L*
LOC100421561	*ENSG00000264273.1*
ENSG00000225541.1	*SLC16A6*
BTBD6P1	*IGLV3-1*
N4BP2L2	*CYP1B1*
SLC1A2	*ZNF354B*
DRAM1	*UCHL1*
ZNF749	*NPIPB12*
DOCK1	*GRAMD2*
LOC101928445	*LINC01063*
JSRP1	*ENSG00000261332.1*
LAMB2	*HSP90AA3P*
TECR	*LOC653503*
TWSG1	*GLUD2*
ARHGEF5	*ENSG00000235760.3*
MZB1	*PHGR1*
IGKV3-11	*ENSG00000237400.1*
ZNF117	*ZNF680*
IGHV3-21	*RPL39P7*
CXCL8	*SLC4A11*

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PPP1R26	*PSMD5*
ENSG00000273449.1	*AHR*
CENPE	*ENSG00000234945.3*
IGHJ3	*LOC105371998*
FXYD6	*ZSCAN12P1*
IGLV2-11	*IFT80*
ENSG00000259563.1	*ZNF564*
LINC00853	*LOC105370177*
GPR141	*HAUS6*
LMO7	*ENSG00000224616.1*
SNORA57	*KLHL15*
CD5	*LINC00598*
HIC1	*OAS2*
ENSG00000228150.1	*ENSG00000260465.1*
GRAMD2	*ENSG00000244063.1*
TNFAIP6	*ENSG00000267469.1*
CATSPER1	*AFAP1L1*
WDFY4	*IGKV1-6*
ENSG00000259364.1	*EBI3*
LOC100506688	*MMP21*
TRBV29-1	*ENSG00000270605.1*
SHTN1	*INTS4P2*
ENSG00000261839.1	*TSPY26P*
TRAC	*CA8*
ADORA2A-AS1	*E2F1*
ADAM19	*ACTR3C*
ENSG00000259354.1	*PLBD2*
BCL2L14	*REV3L*
PTH2	*LOC100288152*
PLN	*ENSG00000227278.1*
ENG	*ENSG00000248544.2*
ENSG00000272721.1	*RAB30*
EMP1	*FAM19A1*
GCNT4	*ENSG00000231955.1*
IL23R	*EFHC1*
DEPDC1B	*MAP2K6*
ENSG00000269919.1	*ENSG00000235772.1*
ENSG00000270659.1	*ARGFXP2*
MTURN	*ENSG00000253854.1*
NR4A3	*LINC00167*
ADAMTS8	*FLNC*
ENSG00000253838.1	*CHCHD10*
ERI2	*ENSG00000272892.1*
RPS20P11	*PMS2P10*

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ENSG00000253356.1	*SNX25P1*
IGHV3-49	*LDHAP2*
ENSG00000262420.2	*UBALD1*
KIAA1324	*RPL36AP16*
ENSG00000271670.1	*CCDC78*
PRR29-AS1	*IGHJ1P*
XBP1	*SLC26A2*
SCUBE3	*ANKRD13B*
IQSEC2	*ENSG00000230113.1*
CTBP2	*ENSG00000265242.1*
F11R	*TPH1*
ABCA5	*UNC79*
LOC102723729	*TNC*
IGKV4-1	*ZNF808*
ENSG00000256747.1	*TENM2*
PPM1N	*KIR2DS4*
TMEM161B	*ENSG00000272717.1*
FAM117B	*SORT1*
TPI1P1	*HSPBAP1*
UBD	*COL24A1*
ZNF519	*MORF4L2-AS1*
GLYATL1P3	*CCR3*
LOC440896	*PPP1R3G*
CPQ	*ZNF428*
ENSG00000267349.1	*LPAR6*
LOC105370526	*ENSG00000224934.2*
IGKV1D-39	*WDR25*
L3MBTL4	*SYNJ2BP*
LOC284009	*GCNT2*
CHST2	*EML5*
VEGFA	*RGCC*
ITGB7	*PLA1A*
ENSG00000256001.1	*ENSG00000259627.1*
MET	*MMAA*
TNS1	*C19orf48*
STRIP2	*ENSG00000250081.1*
IGHV4-59	*PHIP*
SERPINC1	*RN7SL127P*
NRIP2	*ADAMTS16*
RPL17P36	*PDGFA*
LGALS2	*ENSG00000235077.1*
RPL7AP70	*ENTPD3-AS1*
RPL38P4	*ENSG00000232611.1*
PA2G4P6	*FKSG29*

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HBEGF
MARCKSL1
ENSG00000241666.2
LINC00943
CAMSAP3
ENSG00000272216.1
EMILIN1
STARD8
SLC22A18
LOC100130026
SECTM1
CD68
IGKV1D-33
PMAIP1
PIGA
USP45
LAT
ENSG00000262624.1
VSTM2L
ENSG00000273081.1
ENSG00000258458.1
CORT
KLF4
ENSG00000266176.1
ALCAM
ENSG00000263171.1
NUTM2D
RPS5P4
PRRG4
BVES
CMTM1
SNORD38B
SNPH
LILRB4
IGKV1-5
PHF5CP
SNORA59A
PRKAR1B
PDC
CCDC36
OTOA
ENSG00000265408.1
TTK
MIR555
BTAF1
BST2
ZNF780B
3-Mar
RN7SL113P
RAP1BL
ENSG00000255958.1
TNKS2-AS1
ENSG00000272379.1
ENSG00000232719.1
ORM1
ENSG00000262429.1
BORCS8
ENSG00000269191.1
RPS15AP24
ENSG00000269772.1
ENSG00000261468.1
WDSUB1
CD302
F3
INTS6-AS1
CNEP1R1

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NPTXR
COL6A1
ABCA10
RPL7AP11
SRC
EBF4
NABP1
CD58
P4HA2
SNORD22
USP3-AS1
IGKV3-20
PSTPIP2
PABPC1P3
NBPF12
ENSG00000259314.1
KREMEN1
CHRNB3
ENSG00000259865.1
ULBP1
ENSG00000248571.1
SPECC1
IGLV2-23
LOC100507642
AICDA
IGHV2-26
SRXN1
BRWD3
SYNPO2L
ENSG00000266718.1
FANCD2P1
ZNF354A
ENSG00000273218.1
FARP1
ENSG00000267892.1
CDH4
DACT3-AS1
NRSN2-AS1
AMIGO1
FKBP2
CLU
ENSG00000258809.1
TRPV6
ALOX15B

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ENSG00000257386.1
TMEM150B
SIRPB1
CELF2-AS1
GRIK5
ERMARD
SNORD38A
VWA5A
P2RX5
NCKAP1
ENSG00000272384.1
SLCO5A1
USP12
H2AFY2
NEXN
SLFNL1-AS1
SNRPGP4
LOC100887068
VLDLR
FBXL16
ENSG00000234614.1
ICAM1
EHD2
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