

Table S1 The primer sequences for qPCR

Primer name	Sequence (5'→3')
S100A8-F	ATGCCGTCTACAGGGATGAC
S100A8-R	TGCCACGCCCATCTTTATCA
S100A9-F	TCAAAGAGCTGGTGCGAAAAG
S100A9-R	CGTCACCCTCGTGCATCTT
S100A12-F	GAAGGGGCATTTTGACACCC
S100A12-R	CGCAATGGCTACCAGGGAT

Table S2 The proportion of cells in each group

Var1	Var2	Freq	Group
B	K2	0.207775	E
B	P4	0.346154	E
B	P6	0.122079	E
CD4 T	K2	0.202385	E
CD4 T	P4	0.252204	E
CD4 T	P6	0.25653	E
CD8 T	K2	0.111402	E
CD8 T	P4	0.120593	E
CD8 T	P6	0.178719	E
DC	K2	0.000327	E
DC	P4	0.000601	E
DC	P6	0.0022	E
Mono	K2	0.394152	E
Mono	P4	0.19351	E
Mono	P6	0.362112	E
NK	K2	0.026299	E
NK	P4	0.039463	E
NK	P6	0.027495	E
Other	K2	0.025482	E
Other	P4	0.022837	E
Other	P6	0.017597	E
Other T	K2	0.032179	E
Other T	P4	0.024639	E
Other T	P6	0.033269	E
B	P1	0.299917	L
B	P2	0.331909	L
B	P3	0.260754	L
B	P5	0.414778	L
CD4 T	P1	0.407015	L
CD4 T	P2	0.305108	L
CD4 T	P3	0.449943	L
CD4 T	P5	0.220347	L
CD8 T	P1	0.079909	L
CD8 T	P2	0.229559	L
CD8 T	P3	0.157975	L
CD8 T	P5	0.09378	L
DC	P1	0.002906	L
DC	P2	0.001748	L
DC	P3	0.000952	L
DC	P5	0	L

Table S2 (continued)

Table S2 (continued)

Var1	Var2	Freq	Group
Mono	P1	0.062267	L
Mono	P2	0.068169	L
Mono	P3	0.059574	L
Mono	P5	0.14055	L
NK	P1	0.121005	L
NK	P2	0.036706	L
NK	P3	0.019604	L
NK	P5	0.060149	L
Other	P1	0.00768	L
Other	P2	0.004078	L
Other	P3	0.023791	L
Other	P5	0.025313	L
Other T	P1	0.019303	L
Other T	P2	0.022723	L
Other T	P3	0.027408	L
Other T	P5	0.045082	L
B	F1	0.160425	Control
B	H1	0.223937	Control
B	H2	0.229727	Control
B	H3	0.132994	Control
CD4 T	F1	0.201656	Control
CD4 T	H1	0.289424	Control
CD4 T	H2	0.417294	Control
CD4 T	H3	0.355564	Control
CD8 T	F1	0.206698	Control
CD8 T	H1	0.279262	Control
CD8 T	H2	0.187137	Control
CD8 T	H3	0.26462	Control
DC	F1	0.00036	Control
DC	H1	0.006963	Control
DC	H2	0.004302	Control
DC	H3	0.002738	Control
Mono	F1	0.231905	Control
Mono	H1	0.079601	Control
Mono	H2	0.038718	Control
Mono	H3	0.055349	Control
NK	F1	0.042672	Control
NK	H1	0.089951	Control
NK	H2	0.054205	Control
NK	H3	0.1283	Control
Other	F1	0.047353	Control
Other	H1	0.002635	Control
Other	H2	0.004517	Control
Other	H3	0.003129	Control
Other T	F1	0.108931	Control
Other T	H1	0.028227	Control
Other T	H2	0.0641	Control
Other T	H3	0.057305	Control

Table S3 The list of differentially expressed genes in B cells

B all DEGs

ISG15, SDF4, AURKAIP1, MRPL20, SSU72, FAAP20, RER1, TNFRSF14, RPL22, PARK7, ENO1, PGD, AGTRAP, TNFRSF1B, EFHD2, NECAP2, CAPZB, MINOS1, CDA, DDOST, HP1BP3, CDC42, HNRNPR, ID3, RPL11, PNRC2, SRSF10, RCAN3, SRRM1, SYF2, RSRP1, TMEM50A, LDLRAP1, STMN1, SH3BGR13, CD52, HMGN2, RPS6KA1, NUDC, SYTL1, WASF2, FGR, IFI6, THEMIS2, RPA2, DNAJC8, ATP5IF1, YTHDF2, EPB41, SRSF4, LAPTM5, PTP4A2, KHDRBS1, EIF3I, LCK, HDAC1, MARCKSL1, RBBP4, SFPQ, PSMB2, THRAP3, LSM10, CSF3R, MEAF6, NDUFS5, CAP1, PPT1, SMAP2, PPCS, YBX1, ATP6V0B, ARMH1, RPS8, PRDX1, AKR1A1, UQCRH, CMPK1, SCP2, MAGOH, TMEM59, JUN, JAK1, SERBP1, SRSF11, ZRANB2, IFI44L, PRKACB, GNG5, SH3GLB1, SELENOF, GBP2, GBP5, RPL5, S1PR1, PRPF38B, SARS, PSMA5, LAMTOR5, CD53, DENND2D, ATP5PB, C1orf162, RAP1A, CAPZA1, CSDE1, ATP1A1, CD2, RBM8A, POLR3GL, TXNIP, SF3B4, APH1A, MRPS21, MCL1, ENSA, CTSS, CDC42SE1, PSMD4, S100A10, S100A11, S100A9, S100A12, S100A8, S100A6, S100A4, ILF2, JTB, RPS27, TPM3, C1orf43, HAX1, ADAR, KRTCAP2, DAP3, SSR2, LAMTOR2, CCT3, SH2D2A, FCRL1, MND A, IFI16, TAGLN2, CD48, TSTD1, ARHGAP30, UFC1, NDUFS2, FCER1G, SDHC, FCGR3A, FCRLA, MGST3, CD247, RCSD1, SELL, PRRC2C, PRDX6, CACYBP, RALGPS2, GLUL, NCF2, ARPC5, TPR, RGS2, PTPRC, BTG2, SNRPE, NUCKS1, RASSF5, FCMR, CD55, CD46, TRAF3IP3, CAPN2, LBR, SRP9, H3F3A, PARP1, ARF1, GUK1, TOMM20, ARID4B, LYST, HNRNPU, ACP1, RPS7, ID2, YWHAQ, PDIA6, LAPTM4A, SF3B6, ITSN2, PTRHD1, RAB10, HADHA, OST4, ATRAID, SNX17, PPM1G, MRPL33, LBH, CDC42EP3, SRSF7, EML4, COX7A2L, ZFP36L2, CALM2, RTN4, RPS27A, REL, CCT4, MDH1, UGP2, ACTR2, PLEK, AAK1, PCBP1, SNRPG, CCT7, DGUOK, MOB1A, AUP1, POLE4, TRABD2A, TMSB10, TGOLN2, CAPG, MAT2A, VAMP8, VAMP5, RNF181, GNLY, CD8A, CD8B, IGKC, MAL, DUSP2, COX5B, ZAP70, MGAT4A, RPL31, RNF149, GCC2, ACTR3, DDX18, DBI, NIFK, GYPC, BIN1, MZT2B, MZT2A, UB XN4, DARS, CXCR4, ARHGAP15, ZEB2, MMADHC, PRPF40A, CYTIP, RBMS1, GCA, PPIG, SSB, OLA1, WIPF1, ATP5MC3, HNRNPA3, ITGA4, ZC3H15, STAT1, STK17B, ANKRD44, SF3B1, HSPD1, HSPE1, BZW1, NDUFB3, CFLAR, SUMO1, NOP58, 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NDUFS6, MED10, CCT5, SUB1, IL7R, FYB1, RPL37, ANXA2R, EMB, GZMA, IL6ST, GPBP1, KIF2A, BTF3, NSA2, TBCA, RPS23, VCAN, COX7C, MEF2C, GLRX, CAST, LNPEP, CAMK4, REEP5, TNFAIP8, SNX2, HINT1, CDC42SE2, IRF1, UQCRCQ, VDAC1, TCF7, SKP1, PPP2CA, UBE2B, DDX46, H2AFY, HNRNPA0, HSPA9, MATR3.1, PAIP2, UBE2D2, CXXC5, CD14, NDUFA2, IK, ZMAT2, TAF7, NDFIP1, NR3C1, CSNK1A1, CD74, RPS14, TNIP1, ANXA6, ATOX1, G3BP1, ITK, CYFIP2, MAT2B, LCP2, NPM1, STK10, DUSP1, ATP6V0E1, HIGD2A, HK3, RAB24, PRELID1, LMAN2, RGS14, GRK6, TMED9, NHP2, PHYKPL, CANX, SQSTM1, RNF130, MGAT1, RACK1, SERPINB1, LY86, TMEM14B, NOL7, DEK, RIPOR2, HIST1H1C, HIST1H4C, HIST1H2AC, HIST1H1E, HIST1H1D, BTN3A2, HMGN4, HLA-F, HLA-A, ZNRD1, HLA-E, MRPS18B, PPP1R18, TUBB, FLOT1, HLA-C, HLA-B, LT B, LST1, AIF1, CSNK2B, CLIC1, LSM2, HSPA1A, ATF6B, GPSM3, HLA-DRA, HLA-DRB5, HLA-DRB1, HLA-DQA1, HLA-DQB1, HLA-DQA2, PSMB8, PSMB8-AS1, PSMB9, TAP1, HLA-DMB, HLA-DMA, BRD2, HLA-DPA1, HLA-DPB1, RPS18, TAPBP, PHF1, CUTA, HMGA1, RPS10, SNRPC, DEF6, RPL10A, STK38, SRSF3, MTCH1, PIM1, CCND3, CNPY3, MEA1, HSP90AB1, ELOVL5, PHF3, LMBRD1, EEF1A1, COX7A2, PHIP, HMGN3, PNRC1, UBE2J1, BACH2, PNISR, CD24, SNX3, CD164, FYN, CALHM6, RWDD1, SERINC1, SAMD3, STX7, RPS12, BCLAF1, IFNGR1, ABRACL, SF3B5, UTRN, DYNLT1, EZR, TAGAP, SOD2, WTAP, TCP1, RNASET2, PSMB1, PDCD2, MAD1L1, ACTB, RAC1, NDUFA4, TOMM7, CYCS, HNRNPA2B1, CBX3, TAX1BP1, LSM5, SEPT7, STK17A, DBNL, TMED4, PPIA, H2AFV, MYO1G, UPP1, IKZF1, SEC61G, CCT6A, CHCHD2, EIF4H, LAT2, NCF1, MDH2, HSPB1, FGL2, RSBN1L, TMEM243, SRI, SEM1, BRI3, ARPC1B, BUD31, ATP5MF, COP56, LAMTOR4, TSC22D4, GNB2, ZNHIT1, FIS1, POLR2J, PMPCB, KMT2E, SRPK2, SYPL1, NAMPT, LRRN3, TES, CAPZA2, LSM8, ARF5, ATP6V1F, STMP1, MTPN, ZC3HAV1, NDUFB2, SSBP1, TRBV20-1, TRBC1, TRBC2, GSTK1, ZYX, GIMAP7, GIMAP4, GIMAP2, GIMAP1, GIMAP5, TMEM176B, TMEM176A, DNAJB6, SLC25A6, P2RY8, CD99, TMSB4X, AP1S2, SH3KBP1, EIF1AX, SAT1, EIF2S3, CYBB, ATP6AP2, NDUFB11, TIMP1, CFP, UXT, RBM3, WAS, PIM2, PLP2, MSN, IGBP1, IL2RG, NONO, RPS4X, 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MVP, TMEM219, ALDOA, PPP4C, YPEL3, CORO1A, SEPT1, FUS, PYCARD, VPS35, DNAJA2, CYLD, RBL2, MT2A, HERPUD1, CKLF, FAM96B, TRADD, ATP6VOD1, NUTF2, PSMB10, PSMD7, GLG1, GABARAPL2, TERF2IP, HSBP1, COTL1, COX4I1, IRF8, MAP1LC3B, CYBA, APRT, RPL13, TCF25, YWHA E, PRPF8, ARRB2, PSMB6, RNF167, PFN1, C1QBP, XAF1, RNASEK, ACADVL, GABARAP, EIF5A, ACAP1, TMEM256, EIF4A1, CD68, NAA38, TRAPPC1, VAMP2, RPL26, NCOR1, UBB, WSB1, LGALS9, RPL23A, FLOT2, SSH2, CRLF3, EVI2B, ZNF207, SLFN5, TAF15, CCL5, CCL4, GGNBP2, PSMB3, RPL23, RPL19, MIEN1, IKZF3, CCR7, KRT10, EIF1, STAT3, RPL27, SLC25A39, GRN, FMNL1, KPNB1, CDK5RAP3, SKAP1, CALCOCO2, ATP5MC1, ABI3, PHB, LUC7L3, NME2, SRSF1, AC004687.1, SUPT4H1, LIMD2, PSMC5, CD79B, ICAM2, PECAM1, DDX5, BPTF, PRKAR1A, RPL38, CD300A, SLC9A3R1, ATP5PD, NT5C, JPT1, SUMO2, GRB2, H3F3B, WBP2, UBALD2, SRSF2, SEPT9, TMC6, TMC8, SYNGR2, SOCS3, CYTH1, RNF213, ACTG1, P4HB, ARHGDI A, ANAPC11, DCXR, CD7, CYBC1, SMCHD1, MYL12A, MYL12B, NDUFV2, ANKRD12, RAB31, VAPA, PSMG2, PTPN2, ROCK1, SNRPD1, ZNF24, ATP5F1A, RPL17, TXNL1, MBP, TXNL4A, RBCK1, PSMF1, FKBP1A, SIRPG, SNRPB, CDC25B, TMEM230, SNRPB2, DSTN, SMIM26, XRN2, CST3, CST7, APMAP, HM13, HCK, RALY, EIF2S2, DYNLRB1, EIF6, ERGIC3, CPNE1, ROMO1, RBM39, SCAND1, RAB5IF, SAMHD1, RPN2, TOP1, YWHAB, STK4, CTS A, CD40, ZFAS1, CEBPB, SMIM25, RTF2, GNAS, CTSZ, ATP5F1E, PSMA7, ADRM1, RPS21, GID8, PPDPF, LIME1, PRPF6, RGS19, GZMM, BSG, CFD, R3HDM4, CNN2, ARHGAP45, POLR2E, GPX4, ATP5F1D, CIRBP, C19orf24, NDUFS7, RPS15, UQCRC11, ABHD17A, MKNK2, SF3A2, OAZ1, LSM7, TIMM13, AES, S1PR4, MRPL54, EEF2, MYDGF, RPL36, C19orf70, NDUFA11, ALKBH7, AC119396.1, PET100, STXBP2, RETN, MCEMP1, TRAPPC5, FCER2, RPS28, RAB11B, HNRNPM, MYO1F, UBL5, C19orf66, EIF3G, ICAM3, CDC37, CDKN2D, SLC44A2, ILF3, WDR83OS, DHPS, TRI R, JUNB, PRDX2, CALR, RAD23A, GADD45GIP1, STX10, IER2, C19orf53, IL27RA, ADGRE5, DDX39A, DNAJB1, TECR, NDUFB7, RASAL3, TPM4, RAB8A, FAM32A, AP1M1, KLF2, MRPL34, BST2, PGLS, FAM129C, JAK3, RPL18A, IFI30, JUND, LSM4, SSBP4, FKBP8, UBA52, REX1BD, COPE, NDUFA13, UQCRCF5, PDCD5, LSM14A, GPI, UBA2, FXYD5, CD22, COX6B1, HCST, TYROBP, POLR2I, TBCB, SPINT2, PSMD8, EIF3K, ECH1, HNRNPL, GMFG, ZFP36, RPS16, FBL, BLVRB, SHKBP1, SNRPA, HNRNPUL1, TGFB1, AC243960.1, RPS19, CD79A, ARHGEF1, RABAC1, POU2F2, ZNF428, TRAPPC6A, VASP, SNRPD2, CALM3, AP2S1, TMEM160, NAPA, NOP53, SELENOW, EMP3, KDELR1, RPL18, NUCB1, BAX, FTL, SNRNP70, CD37, FLT3LG, RPL13A, RPS11, FCCGRT, NOSIP, PRMT1, NAPSA, NKG7, FPR1, PPP2R1A, MYADM, NDUFA3, RPS9, LILRB2, LILRA5, RPL28, RPS5, CHMP2A, RPS4Y1, IL17RA, RANBP1, UBE2L3, IGLC2, IGLC3, VPREB3, CHCHD10, SMARCB1, MIF, DDT, SNRPD3, TPST2, XBP1, EWSR1, UQCRC10, SF3A1, PIK3IP1, MYH9, EIF3D, NCF4, RAC2, MFNG, LGALS1, EIF3L, DDX17, TOMM22, SUN2, APOBEC3G, RPL3, RPS19BP1, ADSL, ST13, RBX1, XRCC6, SNU13, SMDT1, NDUFA6, TSPO, PARVG, ATXN10, TRABD, TYMP, ATP5PF, CCT8, SOD1, IFNGR2, SON, ATP5PO, MRPS6, TTC3, HMGN1, MX2, MX1, CSTB, PFKL, SUMO3, ITGB2, ITGB2-AS1, PRMT2, MT-ND1, MT-ND2, MT-CO1, MT-CO2, MT-ATP8, MT-ATP6, MT-CO3, MT-ND3, MT-ND4L, MT-ND4, MT-ND5, MT-ND6, MT-CYB, GAS5, TOMM6, SEPTIN7, PLAAT4, RESF1, PCED1B-AS1, LINC01578, SEPTIN1, SNHG29, SEPTIN9, TLE5, SEPTIN6

Table S4 Cluster 2 gene list

Genes	Membership degree
<i>PGD</i>	0.22587354443979
<i>CDA</i>	0.447984361858616
<i>YTHDF2</i>	0.173443572872484
<i>CSF3R</i>	0.324693245087208
<i>PPT1</i>	0.559681138242904
<i>SERBP1</i>	0.531607005576755
<i>S100A9</i>	0.544612345465475
<i>S100A12</i>	0.472554824918279
<i>S100A8</i>	0.482084383160504
<i>S100A6</i>	0.345422357929271
<i>ILF2</i>	0.346868131074696
<i>C1orf43</i>	0.487818275124755
<i>HAX1</i>	0.195144486476814
<i>CCT3</i>	0.183126258201433
<i>FCER1G</i>	0.370399787525527
<i>BTG2</i>	0.304282058957311
<i>GUK1</i>	0.561387396292902
<i>RAB10</i>	0.311175533102565
<i>COX5B</i>	0.494359877262523
<i>GYPC</i>	0.198895557264278
<i>DARS</i>	0.349260455952832
<i>ATP5MC3</i>	0.212072067774551
<i>HSPD1</i>	0.179653011923158
<i>HSPE1</i>	0.555803107368607
<i>EEF1B2</i>	0.274046394175898
<i>SLC11A1</i>	0.570097591539638
<i>NCL</i>	0.386955300839057
<i>EIF1B</i>	0.701455729114239
<i>SS18L2</i>	0.764899511877918
<i>RPL29</i>	0.788218865294877
<i>TKT</i>	0.169303374275439
<i>CSTA</i>	0.238018758436409
<i>RNF7</i>	0.251163074627918
<i>SERP1</i>	0.771548444289044
<i>CAST</i>	0.786548874939671
<i>HINT1</i>	0.444194064363284
<i>G3BP1</i>	0.205527181026807
<i>NPM1</i>	0.322717880633655
<i>HK3</i>	0.305181857424145
<i>NHP2</i>	0.161171514106361
<i>RACK1</i>	0.5025087020536