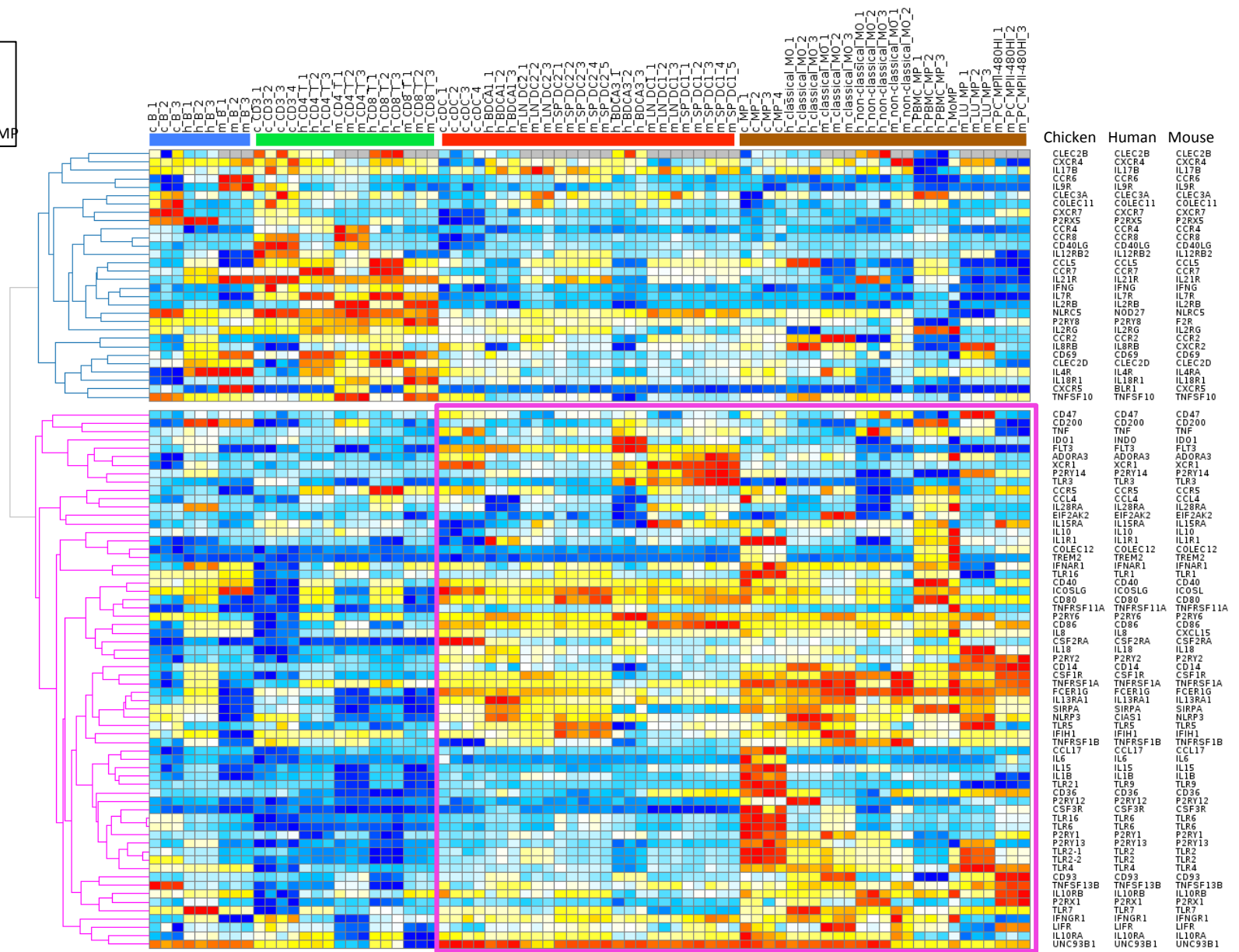
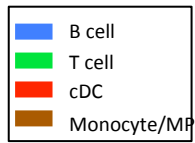


Figure S1. qPCR analysis of the core gene expression signature of cDC, MP, B and T cells in the chicken cell subsets. RNA from cDC, MP, T and B cells of 2 distinct pools of 4 chicken spleen was subjected to qPCR detection of the core gene expression signatures of immune cell subsets established in Fig. 3 and of transcripts from the mouse and human gene subset selected compendia that could not be detected on the array due to defective probes, i.e. ARGHAP22, BEND5, C5AR1, and PLCG1 (labeled by a star on the figure). Data are represented as the mean and SD of relative gene expression levels normalized to GAPDH expression and the maximal expression across the cell types was set to 1 (independent experimental duplicates).



Chicken Human Mouse

CLEC2B CLEC2B CLEC2B
CXCR4 CXCR4 CXCR4
IL17B IL17B IL17B
CCR6 CCR6 CCR6
IL15R IL15R IL15R
CLEC3A CLEC3A CLEC3A
COLEC11 COLEC11 COLEC11
CXCR7 CXCR7 CXCR7
P2RX5 P2RX5 P2RX5
CCR4 CCR4 CCR4
CCR8 CCR8 CCR8
CD40LG CD40LG CD40LG
IL12RB2 IL12RB2 IL12RB2
CCL5 CCL5 CCL5
CCR7 CCR7 CCR7
IL21R IL21R IL21R
IFNG IFNG IFNG
IL7E IL7E IL7E
IL2RB IL2RB IL2RB
NOD27 NOD27 NOD27
P2RY8 P2RY8 P2RY8
IL2RG IL2RG IL2RG
CCR2 CCR2 CCR2
IL8RB IL8RB IL8RB
CD69 CD69 CD69
CLEC2D CLEC2D CLEC2D
IL4R IL4R IL4R
IL18R1 IL18R1 IL18R1
CXCR5 CXCR5 CXCR5
TNFSF10 TNFSF10 TNFSF10

CD47 CD47 CD47
CD200 CD200 CD200
TNF TNF TNF
IDO1 IDO1 IDO1
FLT3 FLT3 FLT3
ADORA3 ADORA3 ADORA3
XCR1 XCR1 XCR1
P2RY14 P2RY14 P2RY14
TLR3 TLR3 TLR3
CCR5 CCR5 CCR5
CCL4 CCL4 CCL4
IL28RA IL28RA IL28RA
EIF2AK2 EIF2AK2 EIF2AK2
IL15RA IL15RA IL15RA
IL10 IL10 IL10
IL1R1 IL1R1 IL1R1
COLEC12 COLEC12 COLEC12
TREM2 TREM2 TREM2
IFNAR1 IFNAR1 IFNAR1
TLR1 TLR1 TLR1
TLR16 TLR16 TLR16
CD40 CD40 CD40
ICOSLG ICOSLG ICOSL
CD80 CD80 CD80
TNFRSF11A TNFRSF11A TNFRSF11A
P2RY6 P2RY6 P2RY6
CD86 CD86 CD86
IL8 IL8 IL8
CSF2RA CSF2RA CSF2RA
IL18 IL18 IL18
P2RY2 P2RY2 P2RY2
CD14 CD14 CD14
CSF1R CSF1R CSF1R
TNFRSF1A TNFRSF1A TNFRSF1A
FCER1G FCER1G FCER1G
IL13RA1 IL13RA1 IL13RA1
SIRPA SIRPA SIRPA
NLRP3 NLRP3 NLRP3
TLR5 TLR5 TLR5
IFI1 IFI1 IFI1
TNFRSF1B TNFRSF1B TNFRSF1B
CCL17 CCL17 CCL17
IL6 IL6 IL6
IL15 IL15 IL15
IL1B IL1B IL1B
TLR21 TLR21 TLR21
TLR9 TLR9 TLR9
CD36 CD36 CD36
P2RY12 P2RY12 P2RY12
CSF3R CSF3R CSF3R
TLR6 TLR6 TLR6
TLR7 TLR7 TLR7
P2RY1 P2RY1 P2RY1
P2RY13 P2RY13 P2RY13
TLR2-1 TLR2-1 TLR2-1
TLR2-2 TLR2-2 TLR2-2
TLR4 TLR4 TLR4
CD93 CD93 CD93
TNFSF13B TNFSF13B TNFSF13B
IL10RB IL10RB IL10RB
P2RX1 P2RX1 P2RX1
TLR7 TLR7 TLR7
IFNGR1 IFNGR1 IFNGR1
LIFR LIFR LIFR
IL10RA IL10RA IL10RA
UNC93B1 UNC93B1 UNC93B1

Figure S2. Unsupervised hierarchical clustering of orthologous immune response genes across chicken, human and mouse reveals globally conserved clusters of lymphoid-specific and myeloid-specific genes. Heatmap of cross-normalized expression profiles for immune response genes present on all three species arrays and regulated at least 2 folds across all cell subsets, including chicken B cells (c_B), T cells (c_CD3), MP (c_MP) and cDC (c_cDC), human B cells (h_B), T cells (h_CD4_T and h_CD8_T), monocyte-derived MP (h_MoMP), peripheral blood mononucleated cell-derived MP (h_PBMC_MP), non-classical monocytes (h_non-classical_MO), classical monocytes (h_classical_MO), BDCA3+ cDC (h_BDCA3), BDCA1+ cDC (h_BDCA1), murine B cells (m_B), T cells (m_CD4_T and m_CD8_T), peritoneal cavity MP (m_PC_MPII-480HI), lung MP (m_LU_MP), non-classical monocytes (m_non-classical_MO), classical monocytes (m_classical_MO), splenic CD8 α + cDC (m_SP_DC1), subcutaneous lymph node CD8 α + cDC (m_LN_DC1), splenic CD11b+ cDC (m_SP_DC2), subcutaneous lymph node CD11b+ cDC (m_LN_DC2). The color scale indicates the expression levels in each cell subset normalized to the mean expression level across all cell types for each species, from blue and light blue (lower expression) to yellow and red (higher expression). The figure was generated with the Gene-E software (version 2.1.71) from the Broad Institute, using the average linkage as a clustering method and the one-pearson distance as a correlation metric. (The pink box highlights the genes that are more highly expressed in MP and cDC than in B and T cells)

DataSet1_mouse: Listing of the mouse gene chips data used to establish mouse cell subset transcriptional fingerprints

database	MOUSE arrays	sample name	cell type	Tissue
GEO	GSM538258	DC1.SP	CD8 α + cDC	Spleen
GEO	GSM538259	DC1.SP	CD8 α + cDC	Spleen
GEO	GSM538260	DC1.SP	CD8 α + cDC	Spleen
GEO	GSM538261	DC1.SP	CD8 α + cDC	Spleen
GEO	GSM605827	DC1.SP	CD8 α + cDC	Spleen
GEO	GSM538255	DC1.LN	CD8 α + cDC	CLN
GEO	GSM538256	DC1.LN	CD8 α + cDC	CLN
GEO	GSM538257	DC1.LN	CD8 α + cDC	CLN
GEO	GSM538282	MF.LU	macrophage	lung
GEO	GSM538283	MF.LU	macrophage	lung
GEO	GSM538284	MF.LU	macrophage	lung
GEO	GSM605850	MF.II-480HI.PC	macrophage	peritoneum
GEO	GSM605851	MF.II-480HI.PC	macrophage	peritoneum
GEO	GSM605852	MF.II-480HI.PC	macrophage	peritoneum
GEO	GSM605872	MO.6C+II-.BL	c monocyte	Blood
GEO	GSM605873	MO.6C+II-.BL	c monocyte	Blood
GEO	GSM605874	MO.6C+II-.BL	c monocyte	Blood
GEO	GSM605884	MO.6C-II-.BL	nc monocyte	Blood
GEO	GSM605885	MO.6C-II-.BL	nc monocyte	Blood
GEO	GSM538201	B6SPLFO	B lymphocyte	Spleen
GEO	GSM538202	B6SPLFO	B lymphocyte	Spleen
GEO	GSM538203	B6SPLFO	B lymphocyte	Spleen
GEO	GSM854306	GN.BL	neutrophils	Blood
GEO	GSM854307	GN.BL	neutrophils	Blood
GEO	GSM854308	GN.BL	neutrophils	Blood
GEO	GSM538398	T.8Mem.Sp	CD8 T cells	Spleen
GEO	GSM538399	T.8Mem.Sp	CD8 T cells	Spleen
GEO	GSM538400	T.8Mem.Sp	CD8 T cells	Spleen
GEO	GSM538365	T.4Mem.Sp	CD4 T cells	Spleen
GEO	GSM538366	T.4Mem.Sp	CD4 T cells	Spleen
GEO	GSM538367	T.4Mem.Sp	CD4 T cells	Spleen
GEO	GSM538315	NK.SP	NK cells	Spleen
GEO	GSM538316	NK.SP	NK cells	Spleen
GEO	GSM538317	NK.SP	NK cells	Spleen
GEO	GSM605840	DC.PDC.8+.SP	CD8+ pDC	Spleen
GEO	GSM605841	DC.PDC.8+.SP	CD8+ pDC	Spleen
GEO	GSM605842	DC.PDC.8+.SP	CD8+ pDC	Spleen
GEO	GSM605843	DC.PDC.8-.SP	CD8- pDC	Spleen
GEO	GSM605844	DC.PDC.8-.SP	CD8- pDC	Spleen
GEO	GSM605845	DC.PDC.8-.SP	CD8- pDC	Spleen
GEO	GSM605826	DC2.SP	CD11b+ cDC	Spleen
GEO	GSM538248	DC2.SP	CD11b+ cDC	Spleen
GEO	GSM538249	DC2.SP	CD11b+ cDC	Spleen
GEO	GSM538250	DC2.SP	CD11b+ cDC	Spleen
GEO	GSM538251	DC2.SP	CD11b+ cDC	Spleen
GEO	GSM538245	DC2.LN	CD11b+ cDC	CLN
GEO	GSM538246	DC2.LN	CD11b+ cDC	CLN
GEO	GSM538247	DC2.LN	CD11b+ cDC	CLN
GEO	GSM538280	DC.LC.SK	Langerhans cells	epidermis
GEO	GSM538281	DC.LC.SK	Langerhans cells	epidermis
GEO	GSM879263	BMDC	MoDC	in vitro derived
GEO	GSM879264	BMDC	MoDC	in vitro derived

DataSet1_human: Listing of the human gene chips data used to establish human cell subset transcriptional fingerprints

database	HUMAN arrays	cell type	Tissue
ArrayExpress	E-TABM-34 MBA:P	BDCA3+ cDCs	Blood
ArrayExpress	E-TABM-34 MBA:Q	BDCA3+ cDCs	Blood
ArrayExpress	E-TABM-34 MBA:R	BDCA3+ cDCs	Blood
ArrayExpress	E-TABM-34 MBA:M	BDCA1+ cDCs	Blood
ArrayExpress	E-TABM-34 MBA:N	BDCA1+ cDCs	Blood
ArrayExpress	E-TABM-34 MBA:O	BDCA1+ cDCs	Blood
ArrayExpress	E-TABM-34 MBA:J	pDCs	Blood
ArrayExpress	E-TABM-34 MBA:K	pDCs	Blood
ArrayExpress	E-TABM-34 MBA:L	pDCs	Blood
ArrayExpress	E-TABM-34 MBA:S	nc monocytes	Blood
ArrayExpress	E-TABM-34 MBA:T	nc monocytes	Blood
ArrayExpress	E-TABM-34 MBA:U	nc monocytes	Blood
footnote ¹	1_FRSharp_mono	c monocytes	Blood
footnote ¹	2_FRSharp_mono	c monocytes	Blood
footnote ¹	3_FRSharp_mono	c monocytes	Blood
footnote ¹	1_FRSharp_CD4_T	CD4 T cells	Blood
footnote ¹	2_FRSharp_CD4_T	CD4 T cells	Blood
footnote ¹	3_FRSharp_CD4_T	CD4 T cells	Blood
footnote ¹	1_FRSharp_CD8_T	CD8 T cells	Blood
footnote ¹	2_FRSharp_CD8_T	CD8 T cells	Blood
footnote ¹	3_FRSharp_CD8_T	CD8 T cells	Blood
footnote ¹	1_FRSharp_B_Lympho	B lymphocytes	Blood
footnote ¹	2_FRSharp_B_Lympho	B lymphocytes	Blood
footnote ¹	3_FRSharp_B_Lympho	B lymphocytes	Blood
footnote ¹	1_FRSharp_NK	NK cells	Blood
footnote ¹	2_FRSharp_NK	NK cells	Blood
footnote ¹	3_FRSharp_NK	NK cells	Blood
footnote ¹	1_FRSharp_neu	neutrophils	Blood
footnote ¹	2_FRSharp_neu	neutrophils	Blood
footnote ¹	3_FRSharp_neu	neutrophils	Blood
GEO	GSM109787	macrophages	in vitro derived
GEO	GSM109788	macrophages	in vitro derived
GEO	GSM109789	macrophages	in vitro derived
GEO	GSM181857	MoDC	in vitro derived
GEO	GSM181931	MoDC	in vitro derived
GEO	GSM181933	MoDC	in vitro derived
GEO	GSM181971	MoDC	in vitro derived
GEO	GSM181973	MoDC	in vitro derived
GEO	GSM181978	MoDC	in vitro derived
GEO	GSM579100	MoDC	in vitro derived
GEO	GSM579101	MoDC	in vitro derived
GEO	GSM579102	MoDC	in vitro derived
GEO	GSM213500	macrophages	in vitro derived
GEO	GSM38347	macrophages	lung
GEO	GSM38349	macrophages	lung
GEO	GSM38352	macrophages	lung
GEO	GSM38354	macrophages	lung
GEO	GSM38357	macrophages	lung
GEO	GSM38359	macrophages	lung
GEO	GSM38360	macrophages	lung
GEO	GSM38366	macrophages	lung
GEO	GSM38367	macrophages	lung
GEO	GSM38369	macrophages	lung
GEO	GSM38374	macrophages	lung
GEO	GSM38376	macrophages	lung
GEO	GSM38380	macrophages	lung
GEO	GSM38382	macrophages	lung
GEO	GSM579106	Langerhans cells	epidermis
GEO	GSM579107	Langerhans cells	epidermis
GEO	GSM579108	Langerhans cells	epidermis
GEO	GSM176001	B lymphocytes	Blood, cultured ex vivo
GEO	GSM176007	B lymphocytes	Blood, cultured ex vivo
GEO	GSM176003	c monocytes	Blood, cultured ex vivo
GEO	GSM176009	c monocytes	Blood, cultured ex vivo
GEO	GSM175999	T cells	Blood, cultured ex vivo
GEO	GSM176005	T cells	Blood, cultured ex vivo

¹ <http://www-microarrays.u-strasbg.fr/files/datasetsE.php>

Dataset S2. Transcriptomic signatures of mouse cell types

CDC_VS_MYELOID	CD8 α DC	B	T	MYELOID_VS_CDC	PDC
ADAM23	A530099J19RIK	CR2	ART2B	PILRA	SIGLECH
H2-EB1	XCR1	FCER2A	GM13949	SEPX1	HAVCR1
H2-AB1	GCET2	EBF1	THEMIS	CLEC4E	DUXBL
H2-AA	TLR3	CD19	TCRA	MGST1	DNTT
DNASE1L3	CXCL9	FAM3	CD3G	FGD4	GRM8
KIT	SNX22	PAX5	CD3E	THBD	GRIA3
APOL7C	IFI205	IGK-V28	CD6	GDA	BST2
H2-OA	TLR11	MS4A1	CD3D	SQRDL	LRP8
CD74	FAM149A	CD79A	CAMK4	KLRA2	CD209D
SLAMF7	HEPACAM2	GM5571	GM13969	PLOD3	PDZD4
CCL5	1700009J07RIK	ANGPTL1	CD5	MPP1	TUBGCP5
KLRI1	LEPREL1	BLK	GM8800	CSAR1	2210020M01RIK
CITA	ECE1	IGHMAC38.205.12	NSG2	HGF	CCR9
ANPEP	TTC39A	CD79B	GM8740	DOK3	TEX2
H2-EB2	IL12B	BANK1	LAT	PROS1	UPB1
ZFP366	GPR33	GM189	EHD3	FRY	TCF4
H2-OB	CADM1	IGK	DZIP1	HIP1	CD300C
CCR7	BC037703	POU2AF1	UBASH3A	SLC16A10	COX6A2
DPP4	ALMS1	LOC100047053	THY1	GSR	GM10790
H2-DMB2	HTR7	CD55	A130014H13RIK	ABCC5	CHD7
IL4I1	PPT1	LOC435333	IFT80	PTPLAD2	EAR14
P2RY10	BCL2L14	CNN3	BCL11B	TCN2	LAG3
FLT3	CLEC1A	IGKV4-71	GM14085	FCGR3	GM12253
SERPINA3F	FAM40B	IGH-6	CXCR6	MS4A6D	PAQR5
ICOSL	GCLC	PIK3C2B	LOC547323	CEBPB	OBSCN
KLRD1	PDIAS	LOC676175	GM13907	GSTM1	PIR
TRAF1	AIF1	LOC100046973	CD28	ABCD2	KLK1
IL7R	CXX1C	IGHV1-72	GM10673	LRP1	ARHGAP32
RG512	NOTCH4	SCD1	PLCG1	PLEKHG1	TMEM229B
ASB2	TMEM27	RALGPS2	TCRB-J	TOM1	RUNX2
TRIM7	FNDG7	LOC672291	TNFSF8	FCGR1	PNCK
TSPAN33	ITGAE	CACNA1I	TRAV14D-1	SEPP1	SLC41A2
SLC05A1	TXNDC15	LOC100046496	DNAH8	SMPDL3B	RNF122
RAB30	FGD2	DENND5B	GM16452	SMPDL3A	HS3ST1
GPR68	FAM190A	GM1077	CD27	CCL6	RAB33B
GBP4	ITPRIPL1	CHST3	SLC35F2	KLF10	GM14207
ADAM11	WDFY4	IL5RA	DENND2D	DGKG	CLCN5
HMG3	FNBP1	IGK-V19-14	LEF1	ALDH3B1	MIR592
SLC4A8		B3GNT5	FAM78A	PDIM1	SRL
ADAM19		GM1419	GM10890	F10	TMEM221
ZBTB46		D130062J21RIK	CCDC64	CCDC125	GCOM1
AP1S3		IGK-V1	TCRA-V8	SH3BP5	LIFR
FSCN1		ZFP318	FAAH	TMEM38B	GNE
FAM46C		GM1502	TCF7	CTS8	SCRN1
CXX1C		2010007H06RIK	A130082M07RIK	BMX	SERINC5
TMEM123		BEND5	GM13926	GRK5	SEMA4B
FAM190A		LOC674190	ITK	WLS	RUNDC2A
ETV3		TNFRSF13C	GM26	CTSD	ZFP521
ROGD1		IGK-V19-20	GM13959	C130050O18RIK	LY6C1
GPR124		GM10883	DGKA	CDS2	PLXDC1
SIGLECG		IGHG	SIDT1	PYGL	CDS1
IL21R		GM4964	KLK8	DUSP3	MAN2A2
SEMA7A		PGAP1	LPHN1	PILRB2	BCR
CACNB3		LOC382693	IL27RA	TLR4	SRGAP3
MREG		PXK	ZAP70	FXYD5	KDR
TMEM231		CD22	C920008G01RIK	NLN	B3GALNT1
FCHSD2		BRWD1	GM13893	TPPP3	LRRC16A
SPIB		FFAR1		G6PDX	ANGPTL7
RELB		CCR6		CYP2AB1	5730403810RIK
KCNIP3		GM10880		ARHGEF3	SLC04A1
KMO		IGL-V1		TSPAN14	PACSN1
BASP1		VPREB3		IRAK3	DIRC2
TLR11		DCLK2		NKIRAS2	DUSP9
H2-M2		CDK1		PRDX5	CXXC5
SLC14A1		GM16970		PGD	FIGF
GALNT12		LOC640614		PAG1	SPNS3
TSPAN3		FCRL1		NFIL3	IFI44
JAK2		DAF2		GRINA	KDM1B
TBC1D4		AY498738		ASPH	RGP1
CXCL16		BACH2		AGPAT2	ZDHHC13
41153		GM1418		NRP1	STOML1
PLEKHA5		GM8760		NAIP2	PTPRS
ICAM1		GM16848		ATG7	ZC3H12B
VCAM1		SBK1		P4HA1	CALCOCO1
DEXI		CC2D2B		LDLR	PTPRF
PLXNC1		CXCR5		GZF1	PHF17
SLAMF8		KLHL14		HGSNAT	GPR52
FRMD5		ELL3		DRAM2	A130050O07RIK
FAM40B		BC006779		RAB31	RABGAP1L
MTMR4		4930420K17RIK		ZSWIM6	ABCA5
SH3PXD2A		PARP1		PLD1	FOXRED2
MYCL1		SH3BP5		TNFRSF21	CACNA1E
RAB11FIP4		GM9861		MOCS1	TMEM163
BIRC2		SNN		LRR8D	ZFP599
PFKFB3		MAPK11		ALDOA	HMG3
		SYVN1		TMEM50A	ZFP658
		TNFRSF13B		ATP6AP1	CLEC4G

Dataset S2. Transcriptomic signatures of mouse cell types

CDC_VS_MYELOID	CD8α DC	B	T	MYELOID_VS_CDC	PDC
		SRPK3		LGMN	MCTP2
		TTPAL		XBP1	NUCB2
		CABLES2		LAMP2	AP1M2
		PRKCE		FNDC3B	SLC29A3
		UQCRB		RHOQ	FAM125A
		ITSN2		LRRC8B	FADS2
		PHXR2		TNFRSF1A	LY6A
		GGA2		MEGF9	RPGRIP1
		FCHSD2		CYBB	ADAM11
		CPM		GSTM3	ATP2A1
		GM7016		DGKA	TOM1
		SLC4A3			ZFP810
		LOC641089			HMGCS2
		IL12A			LEFTY1
		GM459			GM1965
		SUSD1			GPR162
		HCRTR2			ATP1B1
		PHTF2			RHOBTB2
		GM10759			ZC3H12C
		POU2F1			EPHB2
		TEC			SLC25A12
		SNX25			IPO9
		PLEKHA2			PHLP2
		EML4			GM6498
		DMXL1			ATP13A2
		GM10877			FGGY
		IGK-V21-2			LYNX1
		FANCM			CDH5
		LOC100046275			OLFR164
		A1324046			RBM15B
		BIN1			PGLS
		GM5574			CD209A
		FOXP1			OLFR166
		GDF11			SLC39A14
		SWAP70			SLA2
		FCRL5			TXNDC5
		D730005E14RIK			PPIF
		6430601O08RIK			PGAM2
		H2-OB			PTAR1
		ETNK1			ZDHHC14
		GM9900			RPS6KA1
		LOC100047070			SGCB
		9530009G21RIK			DLL4
		RFTN2			LAIR1
		AFF3			PPM1E
		NUP160			LOC625360
		SLC9A7			ARHGEF6
		HIP1R			LDOC1L
		ZFP882			KLHD5
		DONSON			PLEKHM3
		ACSF2			NOTCH3
		N4BP2			SLC35E2
		SNX8			
		GM10561			
		ARPC5L			
		UBLCP1			
		V165-D-J-C			
		PECAM1			
		IGL-V2			
		TRAF5			
		SMCHD1			
		DGKD			
		GRPEL2			
		4930523C07RIK			
		RM11			
		BTK			
		MED13			
		KCTD3			
		PTP4A3			
		SNX2			
		TFAM			
		HVCN1			
		TRIM59			
		TXNDC16			
		PIKFYVE			
		INTS4			
		LMBRD1			
		SERPINI1			
		ZMYM5			
		RASGRP3			
		TRIM7			
		MIR103-2			

Dataset S2. Transcriptomic signatures of human cell types

CDC_VS_MYELOID	BACA3 DC	B	T	MYELOID_VS_CDC	PDC
RP11-126K1.6	RP3-522D1.1	RP11-421L21.3	CHRM3-AS2	CTSS	RP11-305O6.3
ARL5A	RP11-31F15.1	RP11-693J15.4	LINGO4	CYP1B1	SUZ12P1
MRPL9	RP11-13L2.4	TBC1D27	RORC	GNS	CCS
MAGEF1	PPM1H	RP11-160E2.11	LRRN3	RBM43	RP11-214O1.2
FBL	ST7	ANKRD36BP2	RTKN2	CARD6	MINA
HLA-DBP2	GCET2	IGKJ5	TRAT1	CSAR1	COBLL1
SNRPA	CCDC74A	IGKV1-13	RP11-941F15.1	LAMP1	PCBP1-AS1
GRIP1	CDCA7	IGHV3-7	NR3C2	C15ORF23	THUMP2
NDUFV1	KIAA1958	IGHV3-9	TNFRSF25	DYX1C1-CCPG1	ERCC1
LEPREL1	CADM1	IGHV3-20	MAL	SCARB2	MDFIC
RPL37	CAMK2D	IGHV3-21	TMEM116	OAS1	LEPREL1
SPNS3	OSBP2	IGHV4-59	TRAV13-2	SLC31A2	AJAP1
SCN9A	ENPP1	IGHV4-61	GZMK	NPC1	CCDC50
SRSF8	XCR1	P2RX5	TRAC	CTSL1	SCN9A
OXCT1	FLT3	SLC38A11	ZNF204P	MS4A7	KPTN
VARS	WDFY4	SCN3A	RP11-664D1.1	OSTM1	DPPA4
IMPA2	SNX3	IFT57	IL7R	RASA1	CUX2
ADAM28	GPBR	IGLV1-51	RP11-23P13.6	HMOX1	TTTY15
ANKRD65	KIF16B	IGLV1-47	PASK	ERVK13-1	DERL3
SKP2	MTERFD3	IGLV3-25	INPP4B	CLIP4	SLC2A11
PAFAH1B3	SEPT3	IGLV2-14	CCDC64	CTSD	CSORF34
PDCD2L	PTK2	IGLV3-10	CD3G	TMTC1	AP000350.10
DEPTOR	LYRM4	IGLV2-8	MIAT	IFIT3	PAIP1
AFF3	FARS2	IGLL5	DOCK9	MAF8	RP4-647C14.2
SPINT2	CYP2E1	IGLC1	FAM84B	LAIR1	WDR52
P2RY14	ZNF662	IGLC2	FAM171A1	GTF2E1	SIDT1
KCNK6	NET1	IGLC3	MORC2	GLUL	SNHG14
MAP4K1	ENOX1	VPREB3	PIK3IP1	RNASEL	SIVA1
DUSP2	KCND3	IGKC	FAM102A	NPL	SERPINF1
UNC119B	ZNF711	IGKV4-1	TMEM204	SLC22A15	PLD4
IL18R1	CSRP1	POU2AF1	RASGRF2	CYBB	AC006276.7
PPA1	NAV1	IGKV1-17	CDR2	DUSP6	CADM4
CD72	PTPLB	IGKV3-20	CXCR6	RNF219	KIAA0226
ASPHD2	MFS2B	IGKV2-28	LEF1	CTSB	GAB1
ZNF487P	FKBP1B	SNX29P1	CD6	AZ12	SEC61A2
KLHL22	IDO1	IGKV1-37	RP11-18H21.1	SLC11A1	AC007254.3
CDH1	CD38	IGKV1-39	CD5	SEPT10	TCL6
ZNF256	GPR126	IGKV1D-39	C14ORF64	SOWAHC	SCAMP5
GMD5	C1ORF54	IGKV1D-37	BCL11B	C3AR1	SLC33A1
NAP5B	BATF3	IGKV2D-28	SCML4	LAMP2	UGCG
TMEM109	PARP3	IGKV1D-17	NELL2	TMEM106B	RP11-313P13.3
FLT3	KIT	IGKV1D-13	SIRPG	CR1	RP11-511P7.2
SUB1	C8ORF47	C15ORF57	THEMIS	PSAP	RP11-313P13.4
SLC38A1	DBN1	BTNL9	LRIG1	CITED2	IL18R1
UBFD1	BEND5	ANKRD36B	FLT3LG	TRIQK	SEPHS1
FBLN2	NEGR1	CD79A	NOSIP	CCPG1	PMS2P5
POLD2	OSBP19	AC016745.2	ATP8B2	HCAR2	DSN1
CRIP3	KATNA1	METTL8	ASF1A	HCAR3	AC138783.12
FAM60A	ASB2	CD22	PLCG1	ASAH1	PMS2P10
FAM125B	CLNK	ZBTB32	ZNF101	HAL	AC004878.3
CSNK1E	FAM135A	IGHA2	RP11-5N23.2	ELL2	PMS2P2
IMPDH2	ACSL5	IGHG2	LY9	ATP6V1B2	PMS2P3
SH3BP1	CCDC74B	IGHA1	UBASH3A	RAB10	XXbac-BPG300A18.12
PDXP	POLA2	IGHG1	CD28	FBXO8	EGFL8
C22ORF32	CPNE3	IGHD	RNF157	TLR4	DTX2P1
CST3	TLR3	IGHM	PLEKHB1	ABCC3	DTX2P1-UPK3BP1-PMS2P11
PHF10	TMEM14A	KIAA0125	B3GALT2	AQP9	RP11-64P12.8
RP11-72I8.1		CD24P2	CFH	KIAA0232	PMS2P11
TYK2		IGHV4-4	CD2	GPR137B	PMS2P9
SLC4A3		RP11-358M11.2	CFHR1	SASH1	SLC32A1
C1QB		AC012065.7	CAMK4	SLFN11	AC074183.4
CTNNBIP1		AC104699.1	FAM153B	DOK3	TPM2
CSORF20		TTN	DGKA	ZNF438	NLRP7
ITM2C		XXbac-B461K10.4	TRIM59	DMXL2	ATP13A2
TIFAB		IGHGP	HIVEP2	ACSL1	ZNF521
GS1-465N13.1		AL928768.3	GPRASP1	SNX24	HIGD1AP14
AUTS2		LL22NC03-80A10.6	INADL	GIMAP8	CRYM
DANCR		GUSBP11	OXNAD1	GIMAP4	SMPD3
RP11-738E22.2		AP000347.4	TRBC2	GIMAP5	IRF4
LYRM4		IGLL3P	ACSL6	GBP2	FAM221B
ACAP1		CD72	STMN3	TCF7L2	VIMP
ARL4C		IGHV5-78	VSIG1	APH1B	PLAC8
SSR1		ANKRD36	FAM153A	KLHL9	ST6GALNAC4
CYP2E1		TMED8	GIMAP5	CKAP4	CIB2
PM20D2		KLHL14	TCF7	KCNJ2	MOXD1
RUFY3		CD24P4			IDH3A
AP1G2		MS4A1			PPP1R14BP3
WDR41		QRSL1			RP11-291L15.2
TOP1MT		PRICKLE1			WASF1
HTR7		MEF2C			KCNAS
ETV3		CPNE5			RP11-164P12.4
NET1		WASIR2			RP11-164P12.3
OFD1		PTPRK			CYP46A1
RAB39B		MACROD2			TCF4
CLIC2		CTD-2576D5.4			RP11-395I6.3

Dataset S2. Transcriptomic signatures of human cell types

CDC_vs_MYELOïD	BDCA3 DC	B	T	MYELOïD_vs_CDC	PDC
NEK3		SLC6A16			GPR114
NFATC2		PAX5			PLCB4
PARM1		COL4A4			LAMP5
CNN2		COL4A3			TASP1
FAM46C		NTSE			RP11-1280I22.1
AZI1		ZNF439			RP11-20I23.8
GNG7		ZCCHC7			RP11-248C1.2
NAV1		ABCB4			ACAD11
PTPLB		SP140			NPHP3
TRIT1		WASIR1			MYB
MYCL1		CNR1			CYBASC3
NREP		CTA-250D10.23			AC093642.3
IDO2		PKIG			OBSL1
SEPT6		FCRL5			ENTPD3
SPECC1		FCRL2			AH1
ZNF789		FCRL1			EPHB1
CHD1L		AIM2			CEP128
EIF2D		EML6			SNHG7
IFT20		PPAPDC1B			ZFAT
GPR126		FCRLA			VIPR2
ITGB7		SYBU			ASIP
UVRAG		RASSF6			KCNK10
HLA-DOB		EAF2			ITM2C
XXbac-BPG246D15.9		SLC15A2			AR
GPR125		PCDH9			ZNF175
CTC-524C5.2		RALGPS2			CYR1
TRAF4		MICAL3			AC006978.6
ACSF2		BLK			SLC12A3
HOXA9		DEFA4			SCARA5
RP1-170O19.20		SWAP70			FAM129C
HLA-DPA1		CXCR5			STAMBPL1
BZW2		EBF1			KCTD19
GPR160		CR2			HIGD1A
KIT		OSBP10			FZD3
CCNB1IP1		HIP1R			LRRC36
BEND6		TEX9			PPM1K
RAVER2		DOK7			N4BP2L1
TXNDC16		CSGALNACT1			UBE2J1
HDAC9		BANK1			C6ORF170
CIITA		LCN6			KCNK17
PLEKHA5		LCN10			RBPMS
APEX1		RAB30			LILRA4
PCNXL2		CNTNAP2			MYBL2
FKBP14		IL7			TOX2
ZBTB46		TNFRSF17			OGT
BEND5		TPD52			CXCR3
NEGR1		MBD4			AEBP1
BZRAP1		SGCE			SH3BGR
NDRG2		STAP1			ZDHC17
BIN1		CD19			SLC37A1
ZNF512B		PEG10			TLR7
IGFBP7		SNX25			OFD1
EZH2		SNX29P2			RECCQ5
ZEB1		GEN1			GPM6B
C11ORF2		CD79B			NFX1
TM7SF2		BEND4			CYSLTR1
ZBTB10		D87015.1			PAPLN
N4BP2		MIR650			FCHSD2
MCOLN2		HSA-MIR_5195			ABI2
REPIN1					PLXNA4
PON2					BCL11A
DPH5					THSD1
SNORA26					MTHFD2L
MIR4700					PHEX
					RASD1
					DACH1
					SRPX
					CLN8
					PDIA5
					SLITRK5
					CA8
					PPP1R14B
					CLEC4C
					SHD
					NREP
					PTPRS
					NUDT17
					RIMS3
					RBMS3
					BSPRY
					ZNF789
					NIPA1
					BLNK
					MAPKAPK2
					PFKFB2

Dataset S2. Transcriptomic signatures of human cell types

CDC_vs_MYELOID	BDCA3 DC	B	T	MYELOID_vs_CDC	PDC
					NOTCH4
					WNT10A
					GPX7
					RP11-192H23.4
					HHAT
					C7ORF31
					POLB
					SGK494
					VASH2
					APLF
					NEK8
					TRAF4
					CNP
					SLC7A5
					USP24
					PLP2
					C9ORF91
					ABHD15
					TP53I13
					PARP10
					TSPAN13
					CARD11
					SEL1L3
					CLCN5
					BEND6
					MYL6B
					MAGED1
					GRAMD1B
					MAGED4B
					GALNT2
					SUZ12
					MAGED4
					TLR9
					RP11-330H6.5
					KIAA1984
					RAB15
					ADC
					SOX4
					SUPT3H
					SLC35F3
					TARBP1
					RUNX2
					FAM81A
					ERO1LB
					AACS
					SSR4
					CUEDC1
					FLNB
					DUSP5
					TMEM132B
					SLC30A5
					SLC15A4
					GPLD1
					TTC39A
					RGS7
					OPN3
					ALDH5A1
					PTGDS
					KTI12
					FUBP1
					PROC
					TNFRSF21
					HNRNPA1
					CD2AP
					KLHL13
					EP400NL
					NFATC2IP
					COL24A1
					SMC6
					DCPS
					NGLY1
					KIRREL3
					PACSIN1
					NUCB2
					ZDHHC4
					IRF7
					SEMA5A
					EFHC1
					C12ORF75
					SLC35A3
					SDK2
					MIR4668
					SNORA43