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Supplemental Information

**Myocardial Infarction Primes Autoreactive T Cells
through Activation of Dendritic Cells**

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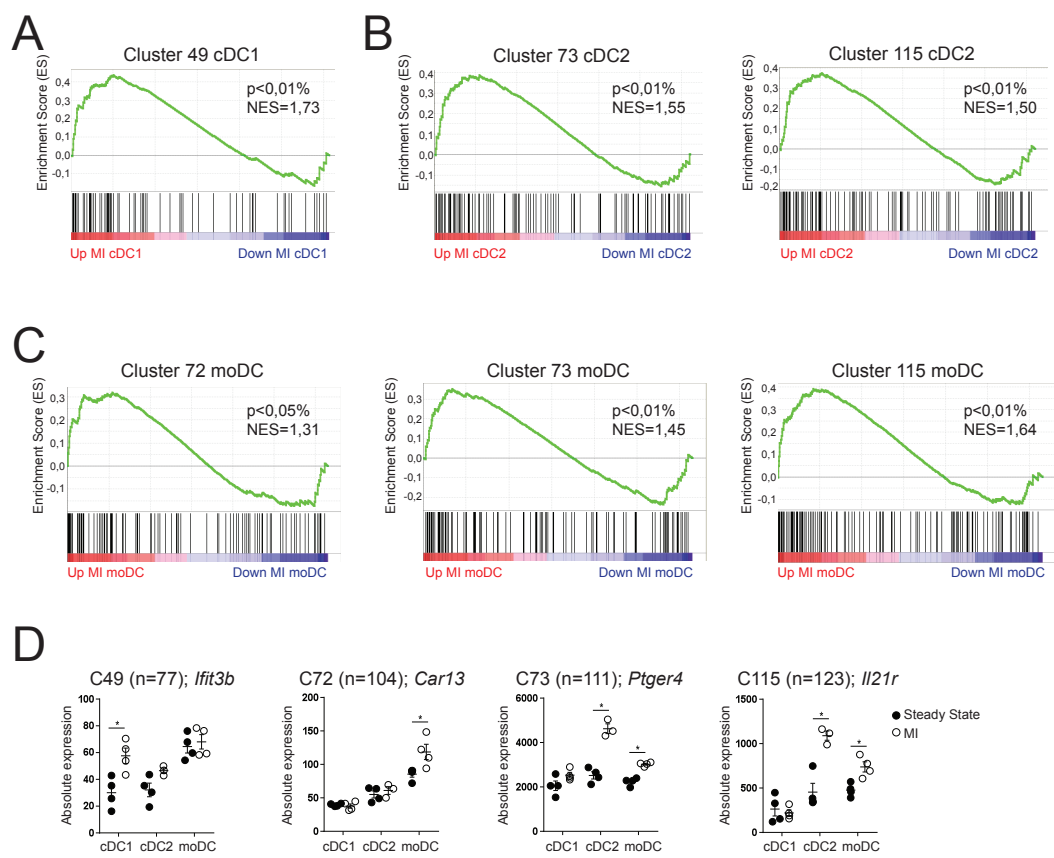


Figure S1. Related to Figure 5.

Gene Set Enrichment Analysis (GSEA) shows the similarity that is found in the upregulation of genes in specific DC subsets from steady state heart to DC subsets from infarcted heart at day 7 post MI with gene clusters that are upregulated in TLR-induced and homeostatic maturation (Ardouin et al, 2016). The resulting enrichment plots are shown in (A-C), as well as the corresponding values of normalized enrichment scores (NES) and false discovery rates (p). (A) Cluster 49 represents genes that are upregulated specifically in TLR-induced maturation. Highly significant enrichment of C49 genes is observed in cDC1s from MI d7 heart. (B) Cluster 73 and 115 represent genes upregulated both in TLR-induced and homeostatic maturation and were found to be significantly enriched in cDC2s from MI d7 heart compared to cDC2s from steady state heart. (C) Clusters 72, 73 and C115 are significantly enriched in heart moDCs at day 7 post MI compared to heart moDCs in steady state. C72 is also enriched in TLR-induced and homeostatic maturation. (D) Absolute expression of representative genes from C49, C72, C73 and C115 which are enriched in specific DC subsets at day 7 post MI compared to steady state (Mean \pm SEM; $p < 0.05$).

Table S1a. Related to Figure 5

Differentially expressed genes: St St vs MI cDC1s

Up-regulated		Down-regulated	
Flot1	Cacna1s	Cxx1a	Clec5a
Emb	Tcta	Tlr2	Cyt11
Wfdc17	Ednra	Fam65b	Aspn
Lpar1	Tmem159	Gadd45g	Icosl
Plac8	Ano1	Pde2a	Rasl11b
Ifitm1	Rapgef3	Rbp7	Rasl12
Tdgf1	Parva	Hsp90aa1	Gata2
Ifitm2	Hbegf	Cfh	S100a10
Casp6	Bcl6b	Slc25a29	Pstpip2
Pla2g7	Bbc3	Adcy6	Stmn2
Dok3	Lyz2	Pkia	Adgrg1
Ank1	Mob3c	Gucy1b3	Arpin
0610040J01Rik	Cyp8b1	Slc28a2	Pdel1b
Prss57	Stambpl1	Ebi3	Cav2
Tmem173	Slc16a2	Ctsw	Zfp862-ps
Dpy19l3	Zfp867	Crim1	Cyp2s1
Fcrlb	Dusp2	Lum	Itga7
Arhgef10	Hvcn1	Yap1	St6galnac3
Ptgdr2	Vcam1	Serpina3f	Tspan7
Jak3	Dnaja1	Otof	S1pr3
P2ry1	Kdr	Ifnlr1	Arhgap29
Lefty1	Cd101	Mpzl2	Abca9
Dip2c	Nrarp	Hs3st1	Afap111
Zdhhc23	Dedd2	Pdlim3	Sertad1
Itga6	Sncg	Fndc4	Trim2
Chac1	Trem14	Zbtb32	4930502E18Rik
Smad7	Dll4	Trib2	Cd163
F830002L21Rik	Ldb2	Atf4	Ctnnd1
Plet1	Trf	Pik3r3	Tnfrsf9
Camkk1	Bend6	Lox	Abcc9
Xxylt1	Ncr1	Gimap1	Irf1
Slc8a1	Nfkbie	Hspa11	Ptprm
Gpr4	Egr1	Ncf2	Phldb2
Htr7	Cygb	Gper1	Il1a
Plscr1	Epcam	Egfl7	Pxdn
Btbd11	Efnb2	Pygm	Mmp15
Ier3	Gm11837	Slc2a4	Tns1
Ctnnd2	Serping1	Ppap2b	Gbp2
Lgmn	S100a16	Etv1	Slc5a3
Gpr171	Hmox1	Spata13	St5
Palm	Susd5	Slc26a10	Aldh1a2
Ptpn1	Ldhb	Hspa1a	St6gal1
Ggt5	Ccl9	Zfp296	Tnfsf9
Nxpe3	Fam101b	Fzd4	Cdc42ep1
Scamp1	Gphn	Mcam	Hspa1b
Cc17	Ndufa4l2	Map3k7cl	Sorbs1
Mmp14	Ctgf	Tnni3	Flrt3
Gpsm2	Gcnt2	Il1rl1	Tnfsf8
Syt11	Serpinb6b	Hey1	Myl9
Pik3cd	Wnt11	Gprc5a	Tns2
Bcl11a	Jun	Sult1a1	Entpd1
BC021614	Tacc2	Mb	Txnip
Ubr4	Fas	Ccnd2	Clec4a2
	Myl3	Cd81	Cd300lg

Table S1b. Related to Figure 5

Differentially expressed genes: St St vs MI cDC1s

Down-regulated			
Spn	Aqp7	Aoc3	Ccdc3
Zc3h12a	Clec4b1	Axl	Pdlim1
Adgre1	Mgp	Sema3g	Olfir558
Dcstamp	Sox17	Lims2	Nkg7
Wwtr1	Steap4	Dnajb4	Gas6
Sspn	Kcnab1	Ltb4r1	Tpm2
Atp8b1	Jam3	Timp2	Ptprb
Frm4b	Msrb3	Cav1	Serpib10
Igfbp5	Arhgef3	Esam	Dok2
Serpib8	Gimap4	Aqp1	Cldn5
Fhl1	Il12rb2	Cyr61	Il2rb
Gem	Ddit4	Ltbp4	Tinagl1
Ly6a	Fndc7	Trim47	Sparc
Eng	Mmrn2	Mfge8	Ptfr
Mcomp1	Gypc	Nfkbiz	Rgs4
Egflam	Mgl1	9430020K01Rik	Gja5
Nfkbia	Alpl	Rhoj	Ets1
Rin2	Phlda1	Tmem47	Tagln
Clu	Emp2	Mmp19	
Hsph1	Xlr	Nrip2	
Cers4	Crip2	S1pr1	
Plau	Lmna	Cd1d1	
Cd34	Nfkbid	Tnf	
Dnase113	Plxdc2	Dnajb1	
Pltp	Sulf1	Mamdc2	
Dysf	Sema6d	Tnfsf13b	
L1cam	Ptpro	Ablim1	
Cd8a	Adgrf5	Pcp411	
Gadd45b	Bag3	Naalad2	
Tcf15	Tnfaip2	Lamb2	
Tbx2	Apold1	Cd209a	
Col3a1	Rasl11a	Clec14a	
Ccl17	Tmem204	Aplnr	
Tesc	Nppa	Igfbp4	
Eln	Sod3	Epas1	
Emp1	Pdgfrb	Jam2	
Fam198b	Kitl	Ly6c1	
Sdcbp2	Col4a1	Lpl	
Ephx1	Ace	Gzma	
Cald1	Sox18	Nedd4	
Gfra2	Timd4	Id3	
Smpd3b	Gstm1	Prf1	
Grap	Fstl1	She	
Arhgef15	Gm13889	Htra1	
Tppp3	Tie1	Pecam1	
Gpihbp1	F11r	Ephb4	
Rhof	Cdh13	Cd93	
Col8a1	Fermt2	Mustn1	
Cnn1	Hes1	Gucy1a3	
Hspa12b	Bcam	Ly6e	
Lamc1	Gimap6	Adam23	
Slc11a1	Zfand2a	Pcdh7	
Sh3pxd2a	Cd207	Serpinh1	
Sell	Sdc1	Nppc	

Table S2a. Related to Figure 5

Differentially expressed genes: St St vs MI cDC2s

Up-regulated				
Fxyd7	1110032F04Rik	Spsb1	Klrc1	Nedd4l
Ifitm1	Fads2	Siglece	Zmynd15	Mif4gd
Slc16a14	St8sia1	Dab2	Mfsd6	Bmf
Enpp1	Gent1	2510009E07Rik	Amacr	Gpr137b
Ffar2	Lsr	Myo1b	Wwc2	Sestd1
Cdh1	Soat2	Lpar3	Cux1	Clec5a
Rptoros	Kit	Il21r	Ubr4	Cdc14a
Card11	Ly75	Hrh2	Sh3pxd2b	Bmp2k
Zbtb18	Gpr162	Adam23	Gpr4	Cog7
Lgi4	Actn1	Prss30	Dennd3	Gnptab
2900026A02Rik	Gpre5c	Ffar4	Pdk1	Atp6v0a1
Cep170b	Ifit1	Igfbp6	Osbpl7	Lmtk2
Ppm1j	Gm7609	Flt3	Cd33	Ltb
Dscam	Cd300lf	Jak3	Fmn13	Gstt3
Ctnnd2	A530032D15Rik	0610040J01Rik	Bst1	Cpd
Tmem231	Tnfrsf4	Rnf157	Gpr171	Soga1
Ocln	Ccr6	Tmem158	Grasp	Rogdi
Cyp7b1	Htra3	Plxnc1	Ifit2	Tgfb1
Entpd3	Galnt12	Gdf15	Cdyl2	Hdac6
Timp1	Numa1	Sulf2	Dhfr	Ptprs
Galnt6	Msantd1	Btla	Cpne2	Asx11
Lox	Fads3	Hpgds	Acvr2a	Abhd15
Il1r2	Ccnj1	Mov10	Slc12a7	Gpr183
Angptl2	Upp1	Casp6	6330416G13Rik	Ciita
Mreg	Hip1r	Spint2	Mink1	Arhgap22
Plekha5	Tbc1d16	Pxdc1	Arid2	Ssh1
Dbn1	Nav2	Dock4	Agap1	Anpep
Spon1	Shisa9	Atp8b1	Ttyh2	SIfn5
Htr7	Cttnbp2nl	Selp	Cxc116	Fam3c
Cd72	Timd4	2010315B03Rik	St8sia6	Knop1
Mmp14	Basp1	Itga6	Bach2	1700021K19Rik
Il2ra	Slc22a23	Klrb1c	Ccdc88b	Rrad
Gpnmb	Il7r	Hivep2	Slc14a1	Syt11
Trp53i11	Ssx2ip	Spns3	Nbeal2	Csf2rb2
Tnfrsf4	Klrb1b	Pik3cb	Fam134b	Tmem173
Dmkn	Zfp366	Kif1a	Ipcef1	Smad7
Tmem150c	Cd38	Slc7a11	Hexb	Tns3
Epcam	Aatk	Stk38l	Clec4n	Creb5
A4galt	Stil	Ppp1r3b	Med13l	Arap3
Spp1	Scin	Ddr1	Ptgs2	
Pram1	Pdlim7	Fbrs1l	Map4k3	
Arhgef40	Tbc1d4	Nxpe5	Gab2	
Gpr82	Fnip2	Stat4	Capn15	
Syngri1	Rtn4rl1	Pvr14	Trp53bp1	
Scel	Apbb2	Iptr3	Ifit3	
F11r	Uvssa	Zdhhc23	Ptger4	
Ggt5	Flot1	Calcr1	Myh9	
Prune2	Cst7	Klrd1	8430419L09Rik	
Il18rap	Klrb1f	Lin9	Uck2	
Rgs12	H2-Oa	Smarca2	B3gnt8	
Adam11	Myo1e	Gga2	Foxj2	
Abcb4	Ttl5	Atp8a1	Jak2	
Dkk1l	Cul7	Klra3	Dock5	
Arhgap24	Tjp3	Zeb1	Fcgr1	
Plscr1	Cxxc5	Galm	Vsig10	

Table S2b. Related to Figure 5

Differentially expressed genes: St St vs MI cDC2s

Down-regulated						
Ahcyl2	Vps9d1	Tbxas1	Serpib8	Xlr	Sparc	Cers4
Igfbp4	Crim1	Ptgir	Rhob	Adams1	Negr1	Cp
Ii18	Ldlr	Hr	Smpd13b	Fcrl1	Epha10	Ptrf
Bcl2a1a	Synpo	Nsl1	Mrps6	Tmem71	BC035044	Ryk
Slc22a5	Mad211bp	Lonrf1	Gcc1	Tlr11	Gfra2	Igfbp7
Aif1	Id1	Rffl	Rnd1	Slc4a5	Sectm1a	Tppp
Eif5	F10	Cxx1c	Pla2g16	Acta2	Kank3	Tinag1
Cxcl1	Mir22hg	Ifitm6	Slc13a3	Ldlrad1	Cracr2b	Nxpe4
Oxct1	Adam8	Tsc22d3	Sgms2	Cdc42ep1	Cd209d	Abcg3
Acot9	Cks2	Bbc3	Tnfaip6	Col14a1	Slc9a4	Adamdec1
Ttc39b	Rras	Rab20	Cxcl10	Dnaja1	Sdc1	Tppp3
Tmem159	Plxdc1	St3gal3	Itga9	Akr1c13	4930455G09Rik	Lpl
Cd84	Tns1	Phlda3	Nrg2	Olfir1033	Thsd4	Efnb2
Rxra	Pwv2b	Tsc22d1	Rgcc	Crip2	Colec12	E230016K23Rik
Tmem62	Rab7b	Rbpms	Msrb3	Sec16b	Tmem229a	Rem1
Plau	Mpeg1	Gbp3	Sqrd	Cd300lb	Ras11b	Bag3
St3gal1	Hic2	Plaur	Bcam	Plxna4	Fabp7	Pf4
Dgat2	Hspe1	Tarsl2	Icam1	Tmcc1	Etv1	Ehd2
Prr51	Pira6	Adgre1	Hspa1a	Ncr1	Nkg7	Omp
Rhot2	Tnfsf14	Nr1h3	Ccl9	Pilra	Ii27ra	Spic
Mtmr10	Pde2a	Gpr84	Nos3	Mgst1	Cd79a	Hes1
Dram1	Serpib6a	Dnajb4	Lmna	Trf	Ets1	Prfl
Clec4e	Zfand2a	Nod1	Phlda1	Mxra7	Kitl	Ak8
Cd300ld	Fcgr3	Nedd4	Adrb1	Espn	Cebpe	Lyz2
Ltb4r1	Arhgef10l	Clec4g	Hnmt	Rgs4	Plcb1	A530064D06Rik
Zswim6	Adss1l	Batf	Ldlrad3	Dpy19l3	Celf4	Hepacam2
Socs6	Glrx	Fn1	Gimap4	Gypc	My13	Kazald1
Igfb3	Pla2g7	Id3	Prdm16	Stox2	Tspan7	Dmpk
Txnip	Stard4	Sgms1	Col4a1	Cd300e	Tmem26	Nfe2
Sertad1	Hsp90aa1	Maf	Adgre5	Tm4sf1	Dok2	Spink2
Daglb	Areg	Ifrd1	Fgd4	Tnfaip8l1	Hey1	Serpib10
Slc16a1	Slc5a3	St3gal6	Sh3bp5	Sphk1	Sv2b	Slc12a2
Tnfaip2	Dusp10	Tmeff1	Grap	Gas7	Aplnr	F3
Ppt2	Capn5	Mturn	Trem3	Vcam1	Rorc	Ptger2
Unc119	Rnasel	Thbd	Crem	Abcd2	Hcar2	Hopx
Tubb6	Cd300lg	Lmo1	Dleu2	Cd163	Atp1a3	Gjb2
Tspan33	C5ar1	Tmem154	Dusp6	Pilrb1	Slc11a1	Slc15a2
Cd44	Apoe	Selenbp1	Ccl2	Ryr1	Gpre5a	Ccdc149
Mt1	Dedd2	Ccr9	Cma1	Cxcl9	Ii1a	Trem4
Adrb2	Bank1	Olfml3	Nupr1	Ceacam1	Klrb1a	Rnase2a
Crat	St3gal5	Tnfsf13b	Grk5	Gfi1b	Fabp4	Cd81
Mapk6	Cyp4f18	March8	Zfyve9	Acy1	Sh2d2a	Lrrc3
Ccdc117	Pparg	Icam2	Hbegf	Oas1l	Ly6e	Ly6c2
Slfn2	Ifi2712a	Kcne3	Mefv	Has1	Pde12	Cdc42ep2
Rbm48	Crip1	Sept11	Gbp8	Gm21188	Ii1rn	Klra2
Gpsm2	Tpst2	Fam20a	Hsph1	Pkdcc	Hspa1b	Pglyrp1
Ctsf	Gbp9	Klhl13	Ikzf3	Fpr2	Fzd4	Ccdc170
Notch1	Atf4	Sult1a1	Clec9a	Gpihbp1	Ica11	Ear2
Cib1	Capg	Trim41	Fcrls	Fgd6	Cish	Cd209b
Klf2	Mmp19	Clec4f	Cd36	Pilrb2	Ccl6	Ephx1
Cpq	S1pr4	Gas6	Lyz1	Chrna5	Gm14085	Arhgef37
Batf3	Plxdc2	Rarb	Kenq1	Gm6297	Ankrd13b	Ace
Rilpl2	Cd177	Gpr65	Cd2	Mras	Ndnf	Hmox1
Gbp2	Tlr7	Ccr3	Akr1c18	Cnn3	Wnt11	Otof
Sat1	Folr2	Alox15	Hspb1	Steap3	Slco2b1	Sema4b
Tfdp2	Hes2	Itk	Hpgd	Cyr61	Serpib2	F13a1
Sepp1	Gbp4	Cebpb	Retnla	Upb1	Slc27a3	C4b
Camkk2	Ccl7	1810011O10Rik	Gzma	Cd226	Nrarp	
Rasgrp2	Slc28a2	Ccl24	Pdlim1	Mmp13	Timp3	
Trpm2	Sgce	Ii2rb	Lgi3	Ii6	Mamdc2	
Steap4	Ecm1	Hsd11b1	P3h2	Igal	Dnajb1	
Crym	Adgre4	Hebp2	Jchain	Aldh1a2	Galnt9	
Mt2	Tlr12	Ptgs1	Rnf144a	Thbs1	Ms4a8a	
Agpat3	Lilra5	9830107B12Rik	Cyp2ab1	Lck	Cd207	

Table S3. Related to Figure 5

Differentially expressed genes: St St vs MI moDCs

Up-regulated		Down-regulated			
Fxyd7	Ndnf	Cd226	Slc22a18	Mgll	Pla2g2d
Fam83f	Adgre5	Lpin1	Syt3	Gas6	Mtmr11
Zbtb18	Ly6e	Hs3st3a1	Cd209d	Dpysl3	Agpat3
Ifnlr1	Gas1	Trp53rka	Ephx3	Cav1	Tnni3
Stat4	Smarcd3	Fbp1	Ptk2	Tmem26	Adamdec1
Nt5e	Thrsp	Tln2	Fxyd2	Cables1	Ckm
Spon1	Igf1	Slc2a4	Serpine1	Tlr12	Mxra8
Tnfrsf9	Sh3bp5	Csf1	Wtip	Vcam1	Alpl
Arhgap24	Cish	Adcy4	Il6	Smpd13b	St3gal6
Il7r	Mycl	Ear2	Cxx1c	Folr2	Slco2b1
Prss46	Cdc42ep2	Cdkn1c	Crip2	Nkg7	Igfbp4
Htr7	Fam101b	Ablim1	Tmem204	Tmem47	Tgfb3
Galnt6	Dusp7	Mmp2	Bcl6b	Iigp1	Nrip2
Tmem158	Fam43a	Asb10	Gm13889	Dnajb4	Dnaja1
Cxcr3	Lyz1	Sema4c	Cxcr2	Prf1	Cxcl12
Lgi4	Hdc	9430015G10Rik	Hbegf	Lck	Lims2
Plxnc1	Tnnt2	Unc5b	Tek	Id3	Stard13
Cdk18	Myl9	Itga9	Hspg2	Hey1	Gpr165
2900026A02Rik	Ptp4a3	Cuedc1	Ras12	Atp9a	Grp
Angptl2	Dedd2	Timp3	S100a16	Cd2	Slc12a2
Gpc1	St3gal1	Mrv1	P2ry13	Gm14085	Cdc42ep1
Rai14	Ebi3	Msrb3	Tagln	Rgl3	Hsph1
Mmp14	Gbp9	Smagp	Fam65b	Mustn1	Slc27a6
Ndrg1	Tbx20	Gprc5a	Ndrg2	Gm6297	Etv1
Plscr1	Tmecc1	Cxcr6	Cyr61	Fabp3	Myl2
Ifit2	Maf	Ptprg	P3h2	Adgrl2	Clic5
Slc7a11	Ddah2	Ltbp4	Cracr2b	Slc28a2	Apold1
Fbx12	Unc13b	Epas1	Neur11a	Clec4f	Actc1
Fam132a	Npnt	Spic	Trpv4	Nedd4	Pf4
Map4k3	Lhfp	Mag	Ctsf	Pyroxd2	
Slc27a1	Asb2	Crim1	Gm4951	Serpinh1	
Anpep	Alox15	Ly6a	Cyp2ab1	Adgrl4	
Ms4a7	AW011738	Rhobtb1	Fzd4	Cbr2	
Nxpe5	Txnip	Tmod1	She	Perp	
Dock5	Oasl1	Trpm2	Fcrls	Tpm2	
Cdh1	Tppp3	Serpinh8	Sept4	Mylk	
Aatk	Heg1	Icam2	Gpihbp1	Klra2	
Il18rap	Tsc22d3	Rnf144a	Fbln2	Afap111	
Ramp3	Igf2bp3	Nid2	Capn3	Cdh5	
Scin	Gcc1	Tmem45b	Chp2	F13a1	
Gcnt1	Adrb2	Ly6c2	Id1	BC035044	
	Rgs5	Ly6c1	Bcam	Cd207	
	8430408G22Rik	Mb	Lilra5	Crym	
	Adgre4	Aqp7	Hpgd	Adamts1	
	Gbp4	Hspa1a	Slc15a2	Myoz2	
	Mmp9	Sult1a1	Agmo	Ephx1	
	Tppp	Gja4	Cd36	Ptrf	
	Acta2	Xlr	Hcar2	Pln	
	Cxcl13	Igf2	Ets1	Alox5	
	Itgal	Kcnq1	Cd81	Cd34	
	Fabp4	Sdpr	Mmp13	Cdr2	
	C1qtnf1	Bag3	Tnfsf13b	Myl7	
	Mxra7	Itga7	Nppa	Rhoj	
	Epor	Ehd2	Ppp1r9a	Cald1	
	Serpinf1	Cd209b	Pdlim1	Adgrg1	
	Sparcl1	Illdr2	Adrb1	Cmah	
	Gzma	Hepacam2	Il1a	Cp	
	Klhl13	Cd163	Celf4	Hspb1	
	Lrrc3	Mucl1	Ptgs1	Dmpk	
	Nrarp	Heyl	Egfl7	Sorbs2	
	Bank1	Vsig4	Nos3	Slc9a3r2	
	Retnla	1810011O10Rik	Gm4980	Gja5	
	Tspan7	Hes1	Myl3	Dnajb1	
	Sgce	Hspa1b	Hs3st1	Il2rb	

Table S4. Related to Figure 5

54 differentially expressed genes: St St vs MI cDC1s, cDC2s and moDCs

Up-regulated		Down-regulated		
Htr7	Ly6e	Gas6	Cdc42ep1	Bag3
Mmp14	Dedd2	Vcam1	Hsph1	Hspa1a
Plscr1	Txnip	Smpd13b	Etv1	Gzma
	Tppp3	Nkg7	Ephx1	Nrarp
	Msrb3	Dnajb4	Ptrf	Tspan7
	Gprc5a	Prf1	Ets1	Cd163
	Crim1	Id3	Cd81	Hes1
	Serpib8	Hey1	Tnfsf13b	Hspa1b
	Crip2	Slc28a2	Pdlim1	Dnajb1
	Hbegf	Nedc4	Ili1a	Ii2rb
	Cyr61	Igf1bp4	Myl3	Cd207
	Fzd4	Dnaj1	Sult1a1	Bcam
	Gpihbp1	Grap	Xlr	

Table S5. Related to Figure 5

64 differentially expressed genes: St St vs MI cDC1s and cDC2s

Up-regulated		Down-regulated		
Flot1	Tmem159	Sertad1	Phlda1	Dok2
Ifitm1	Bbc3	Tns1	Lmna	Tinag1l
Casp6	Lyz2	Gbp2	Plxdc2	Sparc
0610040J01Rik	Trem14	Slc5a3	Tnfrsf25	Rgs4
Tmem173	Trf	Aldh1a2	Kitl	
Jak3	Ncr1	Cd300lg	Col4a1	
Zdhhc23	Efnb2	Adgre1	Ace	
Itga6	Hmox1	Atp8b1	Zfand2a	
Smad7	Ccl9	Cers4	Sdc1	
Gpr4	Wnt11	Plau	Ltb4r1	
Ctnnd2	Pde2a	Gfra2	Mmp19	
Gpr171	Hsp90aa1	Slc11a1	Mamdc2	
Ggt5	Otof	Steap4	Aplnr	
Syt11	Atf4	Gimap4	Lpl	
Ubr4	Rasl11b	Gypc	Serpib10	

Table S6. Related to Figure 5

40 differentially expressed genes: St St vs MI cDC1s and moDCs

Down-regulated				
Bcl6b	Tnni3	Cd34	Gm13889	Epas1
S100a16	Mb	Cald1	Lims2	Ly6c1
Fam101b	Rasl12	Aqp7	Cav1	She
Fam65b	Adgrg1	Mgl1	Ltbp4	Mustn1
Ebi3	Itga7	Alpl	Rhoj	Serpinh1
Hs3st1	Afap111	Apold1	Tmem47	Tpm2
Egfl7	Myl9	Tmem204	Nrip2	Gja5
Slc2a4	Ly6a	Nppa	Ablim1	Tagln

Table S7. Related to Figure 5

105 differentially expressed genes: St St vs MI cDC2s and moDCs

Up-regulated		Down-regulated		
Fxyd7	St3gal1	Adamts1	Hepacam2	P3h2
Cdh1	Adrb2	Acta2	Dmpk	Rnf144a
Zbtb18	Ctsf	Tmcc1	Slc12a2	Cyp2ab1
Lgi4	Id1	Mxra7	Slc15a2	F13a1
2900026A02Rik	Bank1	Oasl1	Lrrc3	Cd226
Galnt6	Gbp9	Gm6297	Ly6c2	Fcrls
Angptl2	Cxx1c	BC035044	Cdc42ep2	Cd36
Spon1	Tsc22d3	Cracr2b	Klra2	Lyz1
Il18rap	Maf	Cd209d	Ear2	Kenq1
Arhgap24	St3gal6	Celf4	Cd209b	Cd2
Gcnt1	Icam2	Tmem26	Trpm2	Hspb1
Il7r	Klhl13	Hcar2	Crym	Hpgd
Aatk	Clec4f	Fabp4	Agpat3	Retnla
Scin	Folr2	Cish	Lck	
Tmem158	Gcc1	Gm14085	Sgce	
Plxnc1	Itga9	Ndnf	Adgre4	
Slc7a11	Nos3	Slco2b1	Tlr12	
Nxpe5	Adrb1	Cp	Lilra5	
Stat4	Adgre5	Tppp	Timp3	
Ifit2	Sh3bp5	Adamdec1	Ptgs1	
Map4k3	Alox15	Pf4	Mmp13	
Dock5	1810011O10Rik	Ehd2	Il6	
Anpep	Gbp4	Spic	Itgal	

Table S8. Related to Figure 6

Differentially expressed genes (high stringency): St St vs MI cDC2s

Up-regulated		Down-regulated	
Plekha5	Prss30	Tnfaip6	Plcb1
Fads2	Ffar4	Hnmt	Spink2
Tbc1d16	Hpgds	Fgd4	Galnt9
Cst7	Spint2	Tnfaip811	9830107B12Rik
Klrb1f	Hivep2	Gfi1b	Tlr7
Siglece	Pvr14	Fgd6	Nupr1
Myo1b	St8sia6	Steap3	4930455G09Rik
Adam11		Cebpe	Tmem229a

Supplemental Experimental Procedures

Flow cytometric analysis and sorting

Following Abs were used: CD3 (145-2C11), CD19 (1D3), CD45.2 (104), MHC class II (M5/114), CD11c (N418), CD64 (X54-5/7.1), XCR-1 (ZET), CD172 α (P84), CD26 (H194-112), Flt3 (A2F10), CD11b (M1/70), CD103 (2E7), CD24 (M1/69), CADM1 (CM004-3), MerTK (polyclonal), Fc ϵ R1 (MAR-1), CCR2 (475301), F4/80 (BM8), IRF4 (M-17), IRF8 (C-19), CD4 (RM4-5), V alpha 2 chain (B20.1), V beta 8.1 8.2 chain (MR5-2), CD90.1 (OX-7), T-bet (4B10), RoR γ t (Q31-378), Foxp3 (FJK-16s), CD25 (PC61), CD44 (IM7), CD86 (PO3), CD40 (3/23) and CD80 (16-10A1).

RNA sequencing

Trimmomatic was utilized for the preprocessing of the RNA-seq data. The adapters were cut off. Reads were clipped when the quality fell below 20 and were rejected when longer than 35. FastQC was performed and all samples passed quality control. Reads were plotted to the mouse reference genome via Tophat2 and calculated via HTSeqCount. R/Bioconductor was utilized to analyze the samples and data normalization was performed using the DESeq2 procedure. To identify unique cDC2 genes we filtered the normalized log₂ expression table using the R package 'sqldf'. Log₂ expression of cDC2s from MI heart needed to be at least 1,2 log₂ value bigger than cDC2s from steady state heart. The differences between the other steady state and MI samples (cDC1s, moDCs and MFs) needed to be lower than 0,3 log₂ value. Gene Set Enrichment Analysis (GSEA) were performed using GSEA GUI v2.2.3 of the Broad Institute (<http://software.broadinstitute.org/gsea/downloads.jsp>). We used GSEA Pre-Ranked analysis with default parameters and used all genes ordered by LogFC (MI vs StSt, upregulated gene is upregulated in MI) as ranked list.