

SUPPLEMENTARY DATA

Table S1 Tetramer sequences

Tetramers were provided by the NIH tetramer core.

Tetramer target	MHC molecule	Sequence
Mouse/human Insulin B 15-23	H-2K(d)	LYLVCGERG
Mouse IGRP 206-214	H-2K(d)	VYLKTNVFL

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Table S2 Islet donors for kidney capsule transplants

Number of donors per age and gender for kidney capsule transplants

Strain	# of donors	Age	Gender
NOD	1	29 weeks	Female
	1	22 weeks	Female
	2	14 weeks	Female
	2	12 weeks	Female
	1	10 weeks	Female
	1	9 weeks	Female
	3	9 weeks	Male
	1	7 weeks	Female
	1	7 weeks	Male
	3	5 weeks	Male
NOD Ins2-CCL21	2	14 weeks	Female
	3	12 weeks	Female
	1	10 weeks	Female
	4	9 weeks	Female
	2	9 weeks	Male
	4	7 weeks	Male
	3	5 weeks	Female
	1	5 weeks	Male

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Table S3 Islet autoantigen gene expression in pancreatic FRC-like cells.

Differential expression of T1D autoantigen genes between gp38^{dim} FRC-like cells freshly sorted from either Ins2-CCL21 NOD mice or non-transgenic NOD littermates and processed for RNAseq calculated with the exact test implemented in edgeR. Linear Fold Change (linearFC) compares cells isolated from Ins2-CCL21 transgenic NOD mice over non-transgenic NOD littermates.

Upregulated						
<i>Symbol</i>	<i>Gene type</i>	<i>Gene name</i>	<i>location</i>	<i>Linear FC</i>	<i>Pvalue</i>	<i>FDR</i>
ENSMUSG00000037852.8	Protein coding	Cpe	chr8:64592542-64693054	3.44	5.63E-11	1.51E-08
ENSMUSG00000029644.7	Protein coding	Pdx1	chr5:147269959-147275848	3.51	5.02E-06	2.68E-04
ENSMUSG00000062995.12	Protein coding	Ica1	chr6:8630527-8778488	3.83	2.14E-12	9.55E-10
ENSMUSG00000021194.6	Protein coding	Chga	chr12:102554969-102565028	6.00	8.96E-12	3.21E-09
ENSMUSG00000017316.13	Protein coding	Ppy	chr11:102099930-102101319	6.22	7.33E-07	5.31E-05
ENSMUSG00000041681.2	Protein coding	Iapp	chr6:142298423-142303961	9.21	1.38E-15	1.28E-12
ENSMUSG00000022315.3	Protein coding	Slc30a8	chr15:52295553-52335798	10.45	3.19E-07	2.63E-05
ENSMUSG00000000215.11	Protein coding	Ins2	chr7:142678656-142743381	10.54	3.80E-05	1.46E-03
ENSMUSG00000056553.14	Protein coding	Ptprn2	chr12:116485720-117276849	12.13	2.92E-25	4.98E-22
ENSMUSG00000026204.15	Protein coding	Ptprn	chr1:75247027-75264502	14.50	1.70E-13	1.08E-10
ENSMUSG00000000394.15	Protein coding	Gcg	chr2:62474530-62483650	16.02	1.44E-25	2.61E-22
ENSMUSG00000035804.4	Protein coding	Ins1	chr19:52264323-52265456	16.20	2.61E-08	3.16E-06
ENSMUSG00000079516.2	Protein coding	Reg3a	chr6:78380709-78383827	173.57	3.27E-08	3.82E-06

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Table S4 FRC genes

Differential expression of FRC genes between gp38^{dim} FRC-like cells freshly sorted from either Ins2-CCL21 NOD mice or non-transgenic NOD littermates and processed for RNAseq calculated with the exact test implemented in edgeR. Linear Fold Change (linearFC) compares cells isolated from Ins2-CCL21 transgenic NOD mice over non-transgenic NOD littermates.

Upregulated						
<i>Symbol</i>	<i>Gene type</i>	<i>Gene name</i>	<i>location</i>	<i>Linear FC</i>	<i>Pvalue</i>	<i>FDR</i>
ENSMUSG00000056978.8	Protein coding	Hamp2	chr7:30922372-30924681	31.89	6.89E-04	1.61E-02
ENSMUSG00000019874.11	Protein coding	Fabp7	chr10:57784881-57788450	10.46	1.61E-04	4.88E-03
ENSMUSG00000024331.11	Protein coding	Dsc2	chr18:20030633-20059554	3.99	1.30E-07	1.24E-05
ENSMUSG00000026321.7	Protein coding	Tnfrsf11a	chr1:105780718-105847981	3.28	1.85E-05	7.90E-04
ENSMUSG00000037605.16	Protein coding	Adgrl3	chr5:81020138-81825133	3.26	1.81E-06	1.13E-04
ENSMUSG00000000567.5	Protein coding	Sox9	chr11:112782224-112787760	3.21	2.21E-08	2.75E-06
ENSMUSG00000024621.15	Protein coding	Csf1r	chr18:61105572-61132149	2.79	6.65E-10	1.28E-07
ENSMUSG00000032135.15	Protein coding	Mcaml	chr9:44134469-44142727	2.46	4.91E-06	2.63E-04
ENSMUSG00000003545.3	Protein coding	Fosb	chr7:19302696-19310051	2.27	7.14E-06	3.55E-04
ENSMUSG00000041559.7	Protein coding	Fmod	chr1:134037254-134048277	1.77	1.36E-05	6.14E-04

Downregulated						
<i>Symbol</i>	<i>Gene type</i>	<i>Gene name</i>	<i>location</i>	<i>Linear FC</i>	<i>Pvalue</i>	<i>FDR</i>
ENSMUSG00000029417.9	Protein coding	Cxcl9	chr5:92321347-92328079	-5.56	1.77E-24	2.75E-21
ENSMUSG00000036594.14	Protein coding	H2-Aa	chr17:34282744-34287827	-3.92	1.59E-08	2.08E-06
ENSMUSG00000079363.7	Protein coding	Gbp4	chr5:105115767-105139586	-3.71	9.10E-06	4.36E-04
ENSMUSG00000003477.5	Protein coding	Inmt	chr6:55170626-55175043	-3.13	1.27E-06	8.37E-05
ENSMUSG00000073421.5	Protein coding	H2-Ab1	chr17:34263209-34269418	-3.05	1.36E-07	1.28E-05
ENSMUSG00000060586.10	Protein coding	H2-Eb1	chr17:34305877-34316199	-2.63	9.90E-07	6.87E-05
ENSMUSG00000023046.6	Protein coding	Igfbp6	chr15:102144362-102149511	-2.48	7.24E-05	2.54E-03
ENSMUSG00000020427.11	Protein coding	Igfbp3	chr11:7206086-7213923	-2.30	3.22E-09	4.99E-07
ENSMUSG00000105504.4	Protein coding	Gbp5	chr3:142493978-142522344	-2.20	3.56E-05	1.38E-03
ENSMUSG00000030116.14	Protein coding	Mfap5	chr6:122505845-122529290	-2.04	1.26E-04	3.95E-03
ENSMUSG00000020101.14	Protein coding	Vsir	chr10:60346851-60372684	-2.01	1.23E-05	5.59E-04
ENSMUSG00000031750.15	Protein coding	Il34	chr8:110741829-110805924	-1.97	1.59E-05	6.96E-04
ENSMUSG00000024620.11	Protein coding	Pdgrfb	chr18:61045150-61085061	-1.91	1.01E-06	6.97E-05
ENSMUSG00000035678.8	Protein coding	Tnfrsf9	chr17:57105325-57107757	-1.91	2.65E-05	1.08E-03

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ENSMUSG00000031497.9	Protein coding	Tnfsf13b	chr8:10006467-10039072	-1.88	8.50E-08	8.75E-06
ENSMUSG00000016496.7	Protein coding	Cd274	chr19:29367455-29388095	-1.82	8.90E-05	2.99E-03
ENSMUSG00000028583.14	Protein coding	Pdpm	chr4:143267431-143299564	-1.80	8.95E-05	3.00E-03
ENSMUSG00000017493.12	Protein coding	Igfbp4	chr11:99041244-99054392	-1.72	6.87E-04	1.60E-02
ENSMUSG00000042333.16	Protein coding	Tnfrsf14	chr4:154921933-154928563	-1.71	1.45E-05	6.45E-04
ENSMUSG00000029231.15	Protein coding	Pdgfra	chr5:75152292-75198215	-1.66	4.15E-05	1.57E-03
ENSMUSG00000016494.9	Protein coding	Cd34	chr1:194938819-194961279	-1.65	8.25E-04	1.86E-02
ENSMUSG00000024610.14	Protein coding	Cd74	chr18:60803848-60812646	-1.62	1.41E-03	2.84E-02
ENSMUSG00000022425.16	Protein coding	Enpp2	chr15:54838901-54952892	-1.58	1.99E-04	5.79E-03
ENSMUSG00000054675.5	Protein coding	Tmem119	chr5:113793729-113800516	-1.55	1.70E-03	3.28E-02
ENSMUSG00000019899.16	Protein coding	Lama2	chr10:26980036-27619758	-1.49	2.24E-03	4.07E-02

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Table S5. Contractome genes

Differential expression of genes involved in controlling cell contractility and cytoskeleton structure and dynamic between gp38^{dim} FRC-like cells freshly sorted from either Ins2-CCL21 NOD mice or non-transgenic NOD littermates and processed for RNAseq calculated with the exact test implemented in edgeR. Linear Fold Change (linearFC) compares cells isolated from Ins2-CCL21 transgenic NOD mice over non-transgenic NOD littermates.

Upregulated						
<i>Symbol</i>	<i>Gene type</i>	<i>Gene name</i>	<i>location</i>	<i>linear FC</i>	<i>Pvalue</i>	<i>FDR</i>
ENSMUSG00000038167.6	Protein coding	Plekhg6	chr6:125362660-125380793	4.93	4.50E-06	2.43E-04
ENSMUSG00000074923.10	Protein coding	Pak6	chr2:118663303-118698020	4.21	7.36E-09	1.04E-06
ENSMUSG00000021108.18	Protein coding	Prkch	chr12:73584796-73778185	4.17	1.56E-11	5.17E-09
ENSMUSG00000031284.16	Protein coding	Pak3	chrX:143518591-143797796	4.04	2.11E-08	2.64E-06
ENSMUSG00000047281.3	Protein coding	Sfn	chr4:133600556-133602168	3.97	7.89E-09	1.10E-06
ENSMUSG00000030739.18	Protein coding	Myh14	chr7:44605803-44670843	3.66	1.42E-09	2.46E-07
ENSMUSG00000020782.18	Protein coding	Llg12	chr11:115824049-115855780	3.55	9.21E-11	2.31E-08
ENSMUSG00000029381.16	Protein coding	Shroom3	chr5:92683435-92965318	3.37	2.61E-07	2.24E-05
ENSMUSG00000045180.13	Protein coding	Shroom2	chrX:152609509-152769465	3.34	2.86E-08	3.43E-06
ENSMUSG00000044641.7	Protein coding	Pard6b	chr2:168081004-168101203	3.11	4.58E-07	3.55E-05
ENSMUSG00000035873.8	Protein coding	Pawr	chr10:108332121-108414240	3.00	3.87E-07	3.09E-05
ENSMUSG00000018387.12	Protein coding	Shroom1	chr11:53457205-53467766	2.77	3.52E-06	1.98E-04
ENSMUSG00000029053.16	Protein coding	Prkcz	chr4:155260129-155361361	2.31	1.85E-06	1.15E-04
ENSMUSG00000028518.8	Protein coding	Prkaa2	chr4:105029874-105109890	2.13	2.91E-04	7.86E-03
ENSMUSG00000035133.9	Protein coding	Arhgap5	chr12:52503972-52571975	2.02	1.42E-03	2.87E-02
ENSMUSG00000024769.7	Protein coding	Cdc42bpg	chr19:6306456-6325652	1.90	7.90E-05	2.72E-03
ENSMUSG00000006494.11	Protein coding	Pdk1	chr2:71873224-71903858	1.89	2.75E-07	2.33E-05
ENSMUSG00000039031.16	Protein coding	Arhgap18	chr10:26753421-26918648	1.85	1.76E-04	5.26E-03
ENSMUSG0000003534.17	Protein coding	Ddr1	chr17:35681567-35704621	1.70	4.75E-06	2.55E-04
ENSMUSG00000030774.13	Protein coding	Pak1	chr7:97788541-97912381	1.61	1.05E-04	3.42E-03
ENSMUSG00000015143.15	Protein coding	Actn1	chr12:80167547-80260371	1.51	2.10E-03	3.86E-02
ENSMUSG00000030602.13	Protein coding	Pak4	chr7:28558819-28598185	1.45	8.15E-04	1.84E-02

Downregulated						
<i>Symbol</i>	<i>Gene type</i>	<i>Gene name</i>	<i>location</i>	<i>linear FC</i>	<i>Pvalue</i>	<i>FDR</i>

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ENSMUSG00000006457.3	Protein coding	Actn3	chr19:4861223-4877909	-2.80	2.66E-07	2.27E-05
ENSMUSG000000056367.14	Protein coding	Actr3b	chr5:25759997-25850688	-1.87	1.69E-03	3.27E-02
ENSMUSG00000002233.13	Protein coding	Rhoc	chr3:104788375-104794459	-1.87	1.16E-04	3.70E-03
ENSMUSG000000029581.14	Protein coding	Fscn1	chr5:142960343-142973185	-1.79	3.86E-05	1.48E-03
ENSMUSG000000029674.13	Protein coding	Limk1	chr5:134656039-134688598	-1.76	1.10E-04	3.55E-03
ENSMUSG000000030409.15	Protein coding	Dmpk	chr7:19083849-19093821	-1.71	2.18E-05	9.10E-04
ENSMUSG000000023972.10	Protein coding	Ptk7	chr17:46564471-46629504	-1.68	2.38E-04	6.67E-03
ENSMUSG000000019370.10	Protein coding	Calm3	chr7:16915379-16924114	-1.54	2.52E-03	4.45E-02
ENSMUSG000000029465.14	Protein coding	Arcp3	chr5:122391878-122414184	-1.51	2.62E-03	4.59E-02
ENSMUSG000000005469.10	Protein coding	Prkaca	chr8:83972993-83996443	-1.51	1.98E-03	3.70E-02
ENSMUSG000000004665.10	Protein coding	Cnn2	chr10:79988584-79996062	-1.48	2.27E-03	4.12E-02
ENSMUSG000000051391.9	Protein coding	Ywhag	chr5:135908409-135934616	-1.46	2.22E-03	4.05E-02
ENSMUSG000000029621.14	Protein coding	Arcp1a	chr5:145083830-145108761	-1.45	2.16E-03	3.96E-02
ENSMUSG000000029622.16	Protein coding	Arcp1b	chr5:145114215-145130705	-1.44	2.52E-03	4.46E-02

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Table S6. Immunology genes

Differential expression of immunoregulatory genes (NS_IMMUNOLOGY_MM_C2269 panel taken from the Nanostring website) between gp38^{dim} FRC-like cells freshly sorted from either Ins2-CCL21 NOD mice or non-transgenic NOD littermates and processed for RNAseq calculated with the exact test implemented in edgeR. Linear Fold Change (linearFC) compares cells isolated from Ins2-CCL21 transgenic NOD mice over non-transgenic NOD littermates.

Upregulated						
<i>Symbol</i>	<i>Gene type</i>	<i>Gene name</i>	<i>location</i>	<i>Linear FC</i>	<i>Pvalue</i>	<i>FDR</i>
ENSMUSG00000029656.13	Protein coding	C8b	chr4:104766317-104804548	30.77	6.21E-04	1.48E-02
ENSMUSG00000026415.11	Protein coding	Fcamr	chr1:130800902-130814740	28.59	7.16E-04	1.66E-02
ENSMUSG00000074272.10	Protein coding	Ceacam1	chr7:25461707-25477603	7.01	6.89E-05	2.43E-03
ENSMUSG00000000489.7	Protein coding	Pdgfb	chr15:79995874-80014977	5.22	3.44E-08	3.96E-06
ENSMUSG00000027111.15	Protein coding	Itga6	chr2:71745616-71858416	4.42	8.09E-09	1.13E-06
ENSMUSG00000061132.13	Protein coding	Blnk	chr19:40928927-40994535	3.72	2.67E-10	5.77E-08
ENSMUSG00000042784.9	Protein coding	Muc1	chr3:89229057-89233381	3.67	4.20E-10	8.54E-08
ENSMUSG00000005672.12	Protein coding	Kit	chr5:75574916-75656722	3.67	3.65E-08	4.16E-06
ENSMUSG00000000409.14	Protein coding	Lck	chr4:129548344-129573641	3.63	2.84E-05	1.14E-03
ENSMUSG00000047139.9	Protein coding	Cd24a	chr10:43578284-43584265	3.59	1.29E-10	3.09E-08
ENSMUSG00000015966.17	Protein coding	Il17rb	chr14:29996135-30008896	3.58	2.98E-04	8.00E-03
ENSMUSG00000043088.16	Protein coding	Il17re	chr6:113458484-113470758	3.48	3.11E-12	1.32E-09
ENSMUSG00000049176.14	Protein coding	Frmpd4	chrX:167471309-168577231	3.36	1.66E-03	3.22E-02
ENSMUSG00000027544.16	Protein coding	Nfatc2	chr2:168476410-168601657	3.35	8.77E-05	2.95E-03
ENSMUSG00000026070.15	Protein coding	Il18r1	chr1:40465552-40500854	3.31	1.14E-05	5.28E-04
ENSMUSG00000026321.7	Protein coding	Tnfrsf11a	chr1:105780718-105847981	3.28	1.85E-05	7.90E-04
ENSMUSG00000026981.15	Protein coding	Il1rn	chr2:24336853-24351494	3.24	1.75E-06	1.10E-04
ENSMUSG00000022037.15	Protein coding	Clu	chr14:65968483-65981547	3.22	2.55E-11	7.66E-09
ENSMUSG00000025494.8	Protein coding	Sigirr	chr7:141091175-141100572	3.16	2.47E-12	1.09E-09
ENSMUSG00000024401.14	Protein coding	Tnf	chr17:35199381-35202007	3.13	2.25E-07	1.96E-05
ENSMUSG00000028150.14	Protein coding	Rorc	chr3:94372794-94398276	3.11	8.25E-05	2.83E-03
ENSMUSG00000022797.16	Protein coding	Tfrc	chr16:32608920-32632794	2.89	4.09E-06	2.25E-04
ENSMUSG00000024621.15	Protein coding	Csf1r	chr18:61105572-61132149	2.79	6.65E-10	1.28E-07
ENSMUSG00000004266.15	Protein coding	Ptpn6	chr6:124720707-124738714	2.77	1.85E-07	1.67E-05
ENSMUSG00000058952.12	Protein coding	Cfi	chr3:129835884-129875332	2.76	1.64E-07	1.50E-05
ENSMUSG00000026417.13	Protein coding	Pigr	chr1:130826684-130852249	2.71	4.10E-05	1.56E-03

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ENSMUSG00000024399.5	Protein coding	Ltb	chr17:35194439-35196320	2.60	9.30E-05	3.09E-03
ENSMUSG00000040584.8	Protein coding	Abcb1a	chr5:8660077-8748575	2.57	1.66E-05	7.20E-04
ENSMUSG00000051439.6	Protein coding	Cd14	chr18:36725074-36726736	2.49	1.39E-12	6.61E-10
ENSMUSG00000062939.11	Protein coding	Stat4	chr1:51987148-52107189	2.46	2.48E-05	1.01E-03
ENSMUSG00000079164.8	Protein coding	Tlr5	chr1:182954788-182976044	2.44	5.52E-06	2.90E-04
ENSMUSG00000041607.16	Protein coding	Mbp	chr18:82475146-82585637	2.40	1.83E-11	5.83E-09
ENSMUSG00000079105.4	Protein coding	C7	chr15:4988762-5063740	2.10	1.20E-06	7.99E-05
ENSMUSG00000027820.12	Protein coding	Mme	chr3:63241537-63386030	2.01	4.45E-04	1.12E-02
ENSMUSG00000030560.17	Protein coding	Ctsc	chr7:88278085-88310888	1.98	4.77E-05	1.77E-03
ENSMUSG00000024948.14	Protein coding	Map4k2	chr19:6341135-6355615	1.86	8.99E-05	3.01E-03
ENSMUSG00000026923.15	Protein coding	Notch1	chr2:26457903-26516663	1.72	5.59E-05	2.03E-03
ENSMUSG00000019850.11	Protein coding	Tnfrsf25	chr10:19000910-19015657	1.69	1.52E-05	6.72E-04
ENSMUSG00000026029.14	Protein coding	Casp8	chr1:58795374-58847503	1.54	1.38E-03	2.80E-02
ENSMUSG00000060477.14	Protein coding	Irak2	chr6:113638467-113695026	1.53	3.69E-04	9.56E-03
ENSMUSG00000046223.10	Protein coding	Plaur	chr7:24462484-24475968	1.49	2.48E-03	4.40E-02
ENSMUSG00000006932.17	Protein coding	Cttnb1	chr9:120929216-120960507	1.43	2.52E-03	4.45E-02

Downregulated						
<i>Symbol</i>	<i>Gene type</i>	<i>Gene name</i>	<i>location</i>	<i>Linear FC</i>	<i>Pvalue</i>	<i>FDR</i>
ENSMUSG00000029417.9	Protein coding	Cxcl9	chr5:92321347-92328079	-5.56	1.77E-24	2.75E-21
ENSMUSG00000026073.13	Protein coding	Il1r2	chr1:40074079-40125231	-4.08	1.33E-07	1.26E-05
ENSMUSG00000036594.14	Protein coding	H2-Aa	chr17:34282744-34287827	-3.92	1.59E-08	2.08E-06
ENSMUSG00000096727.2	Protein coding	Psmb9	chr17:34181988-34187764	-3.57	2.41E-10	5.31E-08
ENSMUSG00000009185.2	Protein coding	Ccl8	chr11:82115185-82116799	-3.42	1.88E-04	5.53E-03
ENSMUSG00000073421.5	Protein coding	H2-Ab1	chr17:34263209-34269418	-3.05	1.36E-07	1.28E-05
ENSMUSG00000038037.5	Protein coding	Socs1	chr16:10782240-10785536	-3.03	1.70E-13	1.08E-10
ENSMUSG00000061232.15	Protein coding	H2-K1	chr17:33996017-34000333	-2.73	1.59E-12	7.41E-10
ENSMUSG00000067235.14	Protein coding	H2-Q10	chr17:35470089-35474563	-2.68	3.94E-10	8.19E-08
ENSMUSG00000060586.10	Protein coding	H2-Eb1	chr17:34305877-34316199	-2.63	9.90E-07	6.87E-05
ENSMUSG00000037321.17	Protein coding	Tap1	chr17:34187553-34197225	-2.62	2.23E-09	3.61E-07
ENSMUSG00000031897.9	Protein coding	Psmb10	chr8:105935735-105938444	-2.45	7.19E-08	7.60E-06
ENSMUSG00000021356.10	Protein coding	Irf4	chr13:30749226-30766976	-2.44	6.13E-06	3.17E-04
ENSMUSG00000021822.3	Protein coding	Plau	chr14:20836660-20843385	-2.41	1.19E-09	2.12E-07

SUPPLEMENTARY DATA

ENSMUSG00000024164.15	Protein coding	C3	chr17:57203970-57228136	-2.36	2.97E-08	3.52E-06
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ENSMUSG00000056749.7	Protein coding	Nfil3	chr13:52967209-52981073	-2.28	9.93E-08	9.81E-06
ENSMUSG00000046718.8	Protein coding	Bst2	chr8:71534255-71537456	-2.27	6.15E-08	6.59E-06
ENSMUSG00000026770.5	Protein coding	Il2ra	chr2:11642807-11693193	-2.25	3.15E-06	1.79E-04
ENSMUSG00000056501.3	Protein coding	Cebpb	chr2:167688915-167690418	-2.23	2.65E-09	4.19E-07
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ENSMUSG00000046879.7	Protein coding	Irgm1	chr11:48861968-48871683	-2.19	3.59E-10	7.48E-08
ENSMUSG00000025491.14	Protein coding	Ifitm1	chr7:140967221-140969825	-2.19	5.13E-06	2.73E-04
ENSMUSG00000003420.8	Protein coding	Fcgrt	chr7:45092990-45103851	-2.16	1.30E-05	5.90E-04
ENSMUSG00000060802.8	Protein coding	B2m	chr2:122147686-122153083	-2.11	5.89E-09	8.46E-07
ENSMUSG00000053113.3	Protein coding	Socs3	chr11:117966079-117970047	-2.03	1.43E-05	6.38E-04
ENSMUSG00000006611.15	Protein coding	Hfe	chr13:23702034-23710854	-1.99	7.07E-06	3.53E-04
ENSMUSG00000055172.10	Protein coding	C1ra	chr6:124512405-124523443	-1.94	1.67E-06	1.06E-04
ENSMUSG00000024620.11	Protein coding	Pdgrfb	chr18:61045150-61085061	-1.91	1.01E-06	6.97E-05
ENSMUSG00000028599.10	Protein coding	Tnfrsf1b	chr4:145213463-145246870	-1.89	9.51E-08	9.53E-06
ENSMUSG00000026104.14	Protein coding	Stat1	chr1:52119440-52161865	-1.88	8.84E-08	9.01E-06
ENSMUSG00000031497.9	Protein coding	Tnfsf13b	chr8:10006467-10039072	-1.88	8.50E-08	8.75E-06
ENSMUSG00000016496.7	Protein coding	Cd274	chr19:29367455-29388095	-1.82	8.90E-05	2.99E-03
ENSMUSG00000023067.14	Protein coding	Cdkn1a	chr17:29090976-29100727	-1.81	5.06E-06	2.69E-04
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ENSMUSG00000026193.15	Protein coding	Fn1	chr1:71585520-71653200	-1.80	2.25E-04	6.36E-03
ENSMUSG00000048120.16	Protein coding	Entpd1	chr19:40612366-40741602	-1.79	8.41E-05	2.87E-03
ENSMUSG00000042190.12	Protein coding	Cmklr1	chr5:113612354-113650426	-1.78	2.79E-06	1.61E-04
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ENSMUSG00000024371.14	Protein coding	C2	chr17:34862604-34898265	-1.77	8.91E-05	2.99E-03
ENSMUSG00000019843.14	Protein coding	Fyn	chr10:39368855-39565381	-1.76	3.70E-05	1.42E-03
ENSMUSG00000027995.10	Protein coding	Tlr2	chr3:83836272-83841767	-1.75	1.12E-04	3.61E-03
ENSMUSG00000053475.5	Protein coding	Tnfaip6	chr2:52038009-52056686	-1.75	1.81E-04	5.37E-03
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SUPPLEMENTARY DATA

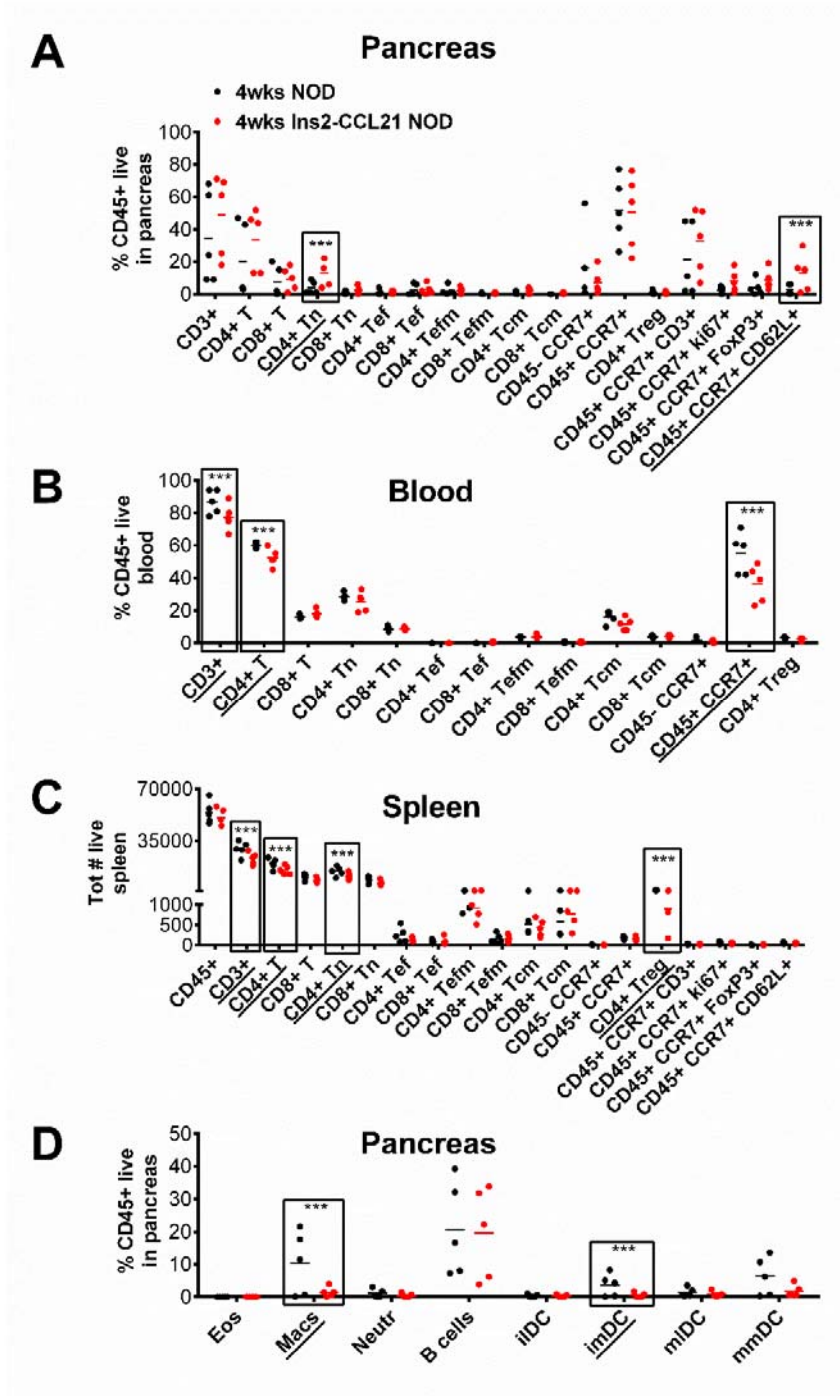
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ENSMUSG00000041515.10	Protein coding	Irf8	chr8:120736358-120756694	-1.64	1.60E-03	3.13E-02
ENSMUSG0000000555.8	Protein coding	Itga5	chr15:103344286-103366763	-1.64	3.50E-04	9.14E-03
ENSMUSG00000017344.4	Protein coding	Vtn	chr11:78499091-78502324	-1.63	1.86E-03	3.52E-02
ENSMUSG00000035000.8	Protein coding	Dpp4	chr2:62330073-62412231	-1.63	9.83E-04	2.14E-02
ENSMUSG00000014599.10	Protein coding	Csf1	chr3:107741048-107760469	-1.63	8.74E-05	2.95E-03
ENSMUSG00000024610.14	Protein coding	Cd74	chr18:60803848-60812646	-1.62	1.41E-03	2.84E-02
ENSMUSG00000040033.16	Protein coding	Stat2	chr10:128270559-128292849	-1.62	8.52E-05	2.90E-03
ENSMUSG00000039377.7	Protein coding	Hlx	chr1:184727140-184732619	-1.61	1.81E-03	3.45E-02
ENSMUSG00000020227.10	Protein coding	Irak3	chr10:120141648-120202130	-1.61	9.37E-05	3.11E-03
ENSMUSG00000073889.10	Protein coding	Il11ra1	chr4:41699989-41769474	-1.61	1.49E-03	2.97E-02
ENSMUSG00000020484.18	Protein coding	Xbp1	chr11:5520659-5525893	-1.60	7.24E-04	1.68E-02
ENSMUSG0000002603.15	Protein coding	Tgfb1	chr7:25687002-25705077	-1.57	2.78E-03	4.81E-02
ENSMUSG00000055435.6	Protein coding	Maf	chr8:115682942-115707794	-1.57	2.64E-03	4.61E-02
ENSMUSG00000020919.11	Protein coding	Stat5b	chr11:100780731-100850724	-1.57	2.59E-04	7.12E-03
ENSMUSG00000003873.11	Protein coding	Bax	chr7:45461697-45466898	-1.55	1.13E-03	2.38E-02
ENSMUSG00000053175.17	Protein coding	Bcl3	chr7:19808462-19822770	-1.54	2.92E-04	7.89E-03
ENSMUSG00000022971.18	Protein coding	Ifnar2	chr16:91372783-91405589	-1.51	4.36E-04	1.10E-02
ENSMUSG00000070942.8	Protein coding	Il1rl2	chr1:40324610-40367562	-1.51	2.74E-03	4.76E-02
ENSMUSG00000073489.6	Protein coding	Ifi204	chr1:173747293-173766943	-1.48	1.64E-03	3.19E-02
ENSMUSG00000022965.8	Protein coding	Ifngr2	chr16:91547072-91565623	-1.46	2.51E-03	4.43E-02

SUPPLEMENTARY DATA

Figure S1. (A) Quantification of T cell phenotypes in pancreatic infiltrates of 4 week-old non-transgenic littermate (n=5) and Ins2-CCL21 NOD (n=5) mice by flow cytometry. Data are indicated as % CD45⁺ live cells. (B) Quantification of T cell phenotypes in blood of 4week-old non-transgenic (n=5) and Ins2-CCL21 NOD (n=5) mice by flow cytometry. Data are indicated as % CD45⁺ live cells. (C) Quantification of T cell phenotypes in spleen of 4 week-old non-transgenic (n=5) and Ins2-CCL21 NOD (n=5) mice by flow cytometry. Data are indicated as total numbers of live cells. (D) Quantification of innate and antigen presenting cell phenotypes in pancreatic infiltrates of 4week-old non-transgenic (n=5) and Ins2-CCL21 NOD (n=5) mice by flow cytometry. Data are indicated as % CD45⁺ live cells. ***, p<0.01. Statistically significant populations are underlined and highlighted by boxes.

T (T cells): CD3⁺; T_{regs} (regulatory T cells): CD4⁺ FoxP3⁺ CD25^{hi}; T_n (naïve T cells): CD44⁻ CD127⁻ CD62L⁺; T_{ef} (effector T cells): CD44⁺ CD127⁻; T_{cm} (central memory T cells): CD44⁺ CD127⁺ CD62L⁺; T_{efm} (effector memory T cells): CD44⁺ CD127⁺ CD62L⁻; Macs (macrophages): CD11b⁺ F4/80⁺ B220⁻; Neutr (neutrophils): CD11b⁺ GR-1⁺; Eos (eosinophils): CD11b⁺ GR-1⁺ F4/80⁺; B cells: CD11b⁻ F4/80⁻ B220⁺; mmDCs (mature myeloid dendritic cells): CD11b⁺ CD11c⁺ MHCII⁺; imDCs (immature myeloid dendritic cells): CD11b⁺ CD11c⁺ MHCII⁻; iLDCs (immature lymphoid dendritic cells): CD11b⁻ CD11c⁺ I MHCII⁻; mLDCs (mature lymphoid dendritic cells): CD11b⁻ CD11c⁺ I MHCII⁺.

SUPPLEMENTARY DATA



SUPPLEMENTARY DATA

Figure S2. (A) Quantification of FRC ($CD45^- gp38^+ CD31^-$) total number in lymph nodes (LNs) and of FRC-like cells in pancreatic islets of 4 week-old non-transgenic (n=4) and Ins2-CCL21 NOD mice (n=4) by flow cytometry. (B) Quantification of gp38 mean fluorescence intensity (MFI) of $gp38^{dim} CD31^-$, $gp38^{hi} CD31^-$, and $gp38^+ CD31^-$ FRCs-like cells from LNs and from islets of CCL21-transgenic NOD mice (red) and from non-transgenic NOD littermates. Also shown are quantification of gp38 mean fluorescence intensity of all $gp38^+ CD31^-$ FRCs-like cells from LNs and from islets of CCL21-transgenic NOD mice (red) and from non-transgenic NOD littermates and MFI gp38 values of CCL21-transgenic NOD normalized to non-transgenic littermates. (C, D) Quantification of relative proportions of $CD45^-$ lymphoid stromal cells (FRC: $gp38^+ CD31^-$; LECs: $gp38^+ CD31^+$; BECs: $gp38^- CD31^+$; DN: $gp38^- CD31^-$) from LNs of 4 week-old (C) and 12 week-old (D) non-transgenic (n=4) and Ins2-CCL21 NOD mice (n=4) by flow cytometry. (E) Percent of diabetes free chemically-diabetic BALB/c mice transplanted (EFP) with islets from fully MHC-mismatched CCL21⁺ (red, n=13) transgenic or CCL21⁻ (black, n=4) control B6 mice; ***, p<0.01; *, p<0.05. (F, G) Comparison of morphology quantified by forward scatter (FSC-A) of $CD45^- gp38^+ CD31^-$ FRC isolated from the LNs or of FRC-like cells from the pancreatic islets of 4 week-old (F) or from 12 week-old (G) non-transgenic (n=4) and Ins2-CCL21 NOD mice (n=4) by flow cytometry.

SUPPLEMENTARY DATA

