Supplementary Table

List of pancreas-specific genes analysed by TaqMan low-density array.

group 1: genes enriched in area A ([A]/[N] > 2)

group 1A: [A]/[N]10

	area N	area A		area B		area C	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Arx	0.007 ± 0.002	1.207 ± 0.221	[165.7]	0.600 ± 0.166	[82.3]	0.315 ± 0.035	[43.3]
Bhlhb4	0.003 ± 0.002	0.121 ± 0.021	[37.9]	0.002 ± 0.001	[0.57]	0.001 ± 0.000	[0.23]
Fev	0.001 ± 0.000	1.095 ± 0.447	[858.4]	0.434 ± 0.174	[340.3]	0.168 ± 0.087	[131.4]
Foxa2	0.257 ± 0.099	4.857 ± 1.084	[18.9]	2.101 ± 0.456	[8.2]	1.140 ± 0.056	[4.4]
Insm1	4.033 ± 1.251	284.0 ± 53.55	[70.4]	180.7 ± 38.30	[44.8]	105.3 ± 22.76	[26.1]
Isl1	0.139 ± 0.061	11.51 ± 2.178	[82.8]	8.905 ± 2.922	[64.0]	4.536 ± 0.354	[32.6]
Mnt	0.736 ± 0.146	9.654 ± 4.198	[13.1]	4.311 ± 1.245	[5.9]	2.353 ± 0.273	[3.2]
Mycl1	0.011 ± 0.005	1.039 ± 0.324	[95.2]	0.274 ± 0.116	[25.1]	0.062 ± 0.039	[5.6]
Myt1	0.043 ± 0.020	6.370 ± 1.364	[148.9]	2.728 ± 0.689	[63.8]	1.050 ± 0.077	[24.5]
Neurod1	0.024 ± 0.013	5.909 ± 0.886	[243.5]	2.485 ± 0.396	[102.4]	1.590 ± 0.272	[65.5]
Neurog3	0.715 ± 0.306	49.47 ± 20.72	[69.2]	4.322 ± 1.568	[6.0]	0.262 ± 0.152	[0.37]
Nfatc2	0.365 ± 0.086	3.716 ± 0.355	[10.2]	1.649 ± 0.289	[4.5]	1.022 ± 0.148	[2.8]
Nkx2-2	0.020 ± 0.007	1.372 ± 0.338	[69.5]	0.422 ± 0.134	[21.4]	0.246 ± 0.012	[12.5]
Nkx6-1	0.280 ± 0.088	8.708 ± 3.259	[31.1]	6.003 ± 1.811	[21.4]	5.017 ± 1.478	[17.9]
Pax4	0.205 ± 0.046	34.31 ± 12.93	[167.6]	7.232 ± 3.351	[35.3]	0.248 ± 0.028	[1.2]
Pou2f2	0.090 ± 0.050	5.493 ± 3.186	[61.2]	4.378 ± 2.061	[48.7]	0.627 ± 0.346	[7.0]
Pou3f4	0.013 ± 0.004	1.336 ± 0.338	[105.2]	0.875 ± 0.337	[69.0]	0.460 ± 0.086	[36.3]
Rfx3	0.091 ± 0.012	1.934 ± 0.246	[21.3]	1.149 ± 0.130	[12.7]	0.505 ± 0.073	[5.6]
Rfx6	0.041 ± 0.015	10.38 ± 2.160	[250.9]	5.440 ± 1.751	[131.5]	2.880 ± 0.147	[69.6]
Sim1	0.018 ± 0.006	0.983 ± 0.307	[53.4]	0.725 ± 0.365	[39.3]	0.288 ± 0.024	[15.6]
Sox4	0.847 ± 0.093	8.990 ± 3.832	[10.6]	2.769 ± 1.137	[3.3]	0.914 ± 0.075	[1.1]

group 1B: 5 < [A]/[N] < 10

	area N	area A		area B		area C	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Bach2	0.014 ± 0.004	0.131 ± 0.082	[9.1]	0.011 ± 0.001	[0.73]	0.007 ± 0.002	[0.45]
Erf	0.625 ± 0.207	3.393 ± 1.127	[5.4]	1.292 ± 0.402	[2.1]	0.709 ± 0.198	[1.1]
Eya2	0.133 ± 0.066	1.311 ± 0.307	[9.8]	0.232 ± 0.098	[1.7]	0.082 ± 0.028	[0.61]
Fosb	0.016 ± 0.009	0.083 ± 0.039	[5.3]	0.055 ± 0.023	[3.6]	0.019 ± 0.011	[1.2]
Hhex	0.538 ± 0.233	4.967 ± 0.853	[9.2]	2.358 ± 0.592	[4.4]	0.684 ± 0.207	[1.3]
Ift57	0.443 ± 0.163	3.555 ± 0.872	[8.0]	2.661 ± 0.204	[6.0]	2.191 ± 0.095	[4.9]
Nr1d2	0.024 ± 0.006	0.225 ± 0.108	[9.4]	0.114 ± 0.016	[4.8]	0.130 ± 0.025	[5.4]
Nr6a1	0.074 ± 0.027	0.560 ± 0.181	[7.6]	0.403 ± 0.051	[5.5]	0.263 ± 0.035	[3.6]
Onecut2	0.020 ± 0.020	0.124 ± 0.069	[6.2]	0.036 ± 0.006	[1.8]	0.024 ± 0.006	[1.2]
Sox13	0.056 ± 0.024	0.469 ± 0.041	[8.3]	0.249 ± 0.089	[4.4]	0.208 ± 0.033	[3.7]
Sox5	0.051 ± 0.007	0.272 ± 0.133	[5.4]	0.106 ± 0.042	[2.1]	0.048 ± 0.011	[0.9]
Trerf1	0.041 ± 0.014	0.293 ± 0.120	[7.1]	0.229 ± 0.039	[5.5]	0.096 ± 0.018	[2.3]
Vps72	1.219 ± 0.140	7.851 ± 1.683	[6.4]	3.348 ± 0.446	[2.7]	1.812 ± 0.223	[1.5]

group 1C: 2 < [A]/[N] < 5

	area N	area A		area B		area C	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Ascl1	0.130 ± 0.069	0.568 ± 0.061	[4.4]	0.214 ± 0.014	[1.6]	0.076 ± 0.030	[0.58]
Bcor	0.322 ± 0.072	1.293 ± 0.214	[4.0]	0.952 ± 0.059	[3.0]	0.456 ± 0.070	[1.4]
Cited2	0.476 ± 0.117	1.612 ± 0.346	[3.4]	1.569 ± 0.194	[3.3]	0.965 ± 0.209	[2.0]
Creb3l2	1.129 ± 0.469	2.953 ± 1.441	[2.6]	2.413 ± 0.835	[2.1]	1.783 ± 0.510	[1.6]
Cux1	0.695 ± 0.099	3.190 ± 1.478	[4.6]	1.930 ± 0.190	[2.8]	0.939 ± 0.213	[1.4]
E2f5	0.098 ± 0.027	0.262 ± 0.021	[2.7]	0.141 ± 0.040	[1.4]	0.118 ± 0.048	[1.2]
Egr1	4.904 ± 2.291	18.119 ± 3.515	[3.7]	12.529 ± 1.923	[2.6]	4.958 ± 0.356	[1.0]
Etv3	0.749 ± 0.155	1.580 ± 0.436	[2.1]	0.927 ± 0.034	[1.2]	0.573 ± 0.053	[0.77]
Etv5	1.253 ± 0.307	2.899 ± 0.756	[2.3]	1.281 ± 0.099	[1.0]	0.412 ± 0.090	[0.33]
Eya3	0.365 ± 0.060	1.090 ± 0.230	[3.0]	0.763 ± 0.165	[2.1]	0.396 ± 0.079	[1.1]
Gabpb1	0.780 ± 0.149	2.700 ± 0.877	[3.5]	1.766 ± 0.492	[2.3]	1.076 ± 0.331	[1.4]
Grhl2	0.547 ± 0.203	1.294 ± 0.263	[2.4]	0.414 ± 0.214	[0.76]	0.074 ± 0.054	[0.13]
Hes2	0.067 ± 0.033	0.151 ± 0.104	[2.3]	0.072 ± 0.050	[1.1]	0.009 ± 0.004	[0.14]
Hes6	0.298 ± 0.136	1.382 ± 0.429	[4.6]	0.430 ± 0.119	[1.4]	0.282 ± 0.038	[0.95]
Hnf1a	1.262 ± 0.292	6.017 ± 2.782	[4.8]	3.697 ± 0.631	[2.9]	2.738 ± 0.170	[2.2]
Hnf4a	0.910 ± 0.036	2.773 ± 0.523	[3.0]	1.482 ± 0.487	[1.6]	1.029 ± 0.070	[1.1]
Hoxc4	0.432 ± 0.392	1.010 ± 0.298	[2.3]	0.328 ± 0.035	[0.76]	0.109 ± 0.132	[0.25]
Ikzf1	0.738 ± 0.421	3.081 ± 1.276	[4.2]	1.777 ± 1.178	[2.4]	0.486 ± 0.275	[0.66]
Irf3	2.438 ± 0.580	6.043 ± 1.335	[2.5]	3.484 ± 0.496	[1.4]	2.013 ± 0.367	[0.83]
Irx3	0.007 ± 0.005	0.023 ± 0.024	[3.1]	0.002 ± 0.000	[0.24]	0.000 ± 0.000	[0.03]
Klf5	0.068 ± 0.014	0.228 ± 0.068	[3.4]	0.101 ± 0.011	[1.5]	0.079 ± 0.019	[1.2]
Mef2d	0.084 ± 0.022	0.411 ± 0.090	[4.9]	0.190 ± 0.035	[2.3]	0.114 ± 0.016	[1.4]
Mitf	0.239 ± 0.049	0.750 ± 0.341	[3.1]	0.183 ± 0.097	[0.76]	0.348 ± 0.099	[1.5]
Mta2	1.458 ± 0.290	5.903 ± 1.395	[4.0]	3.808 ± 0.929	[2.6]	2.061 ± 0.225	[1.4]
Nr2f6	0.112 ± 0.018	0.288 ± 0.159	[2.6]	0.123 ± 0.040	[1.1]	0.044 ± 0.014	[0.39]
Pbx1	2.194 ± 0.589	5.299 ± 1.374	[2.4]	2.968 ± 0.719	[1.4]	2.010 ± 0.062	[0.92]
Rbpj	0.004 ± 0.002	0.021 ± 0.023	[4.7]	0.004 ± 0.002	[0.89]	0.002 ± 0.001	[0.47]
Six4	0.065 ± 0.028	0.147 ± 0.059	[2.3]	0.101 ± 0.057	[1.6]	0.103 ± 0.017	[1.6]
Sox15	0.023 ± 0.008	0.052 ± 0.050	[2.3]	0.009 ± 0.005	[0.39]	0.002 ± 0.001	[0.10]
Sox9	0.809 ± 0.141	3.867 ± 1.193	[4.8]	1.036 ± 0.202	[1.3]	0.285 ± 0.117	[0.4]
Yy1	2.005 ± 0.611	5.285 ± 1.548	[2.6]	3.378 ± 0.447	[1.7]	2.213 ± 0.436	[1.1]
Zfhx3	0.861 ± 0.111	1.853 ± 0.963	[2.2]	1.111 ± 0.419	[1.3]	0.530 ± 0.023	[0.61]
Zfp207	16.56 ± 1.894	41.68 ± 11.53	[2.5]	22.97 ± 5.670	[1.4]	16.26 ± 0.459	[1.0]
Zfp445	0.273 ± 0.018	1.164 ± 0.446	[4.3]	0.677 ± 0.124	[2.5]	0.443 ± 0.152	[1.6]

group 2: genes enriched in area A and other endocrine areas

group 2A: genes enriched in area A and area B

	area N	area A		area B		area C	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Dach2	0.026 ± 0.009	0.055 ± 0.028	[2.1]	0.053 ± 0.022	[2.0]	0.030 ± 0.012	[1.1]
Fos	1.228 ± 0.452	4.408 ± 0.802	[3.6]	4.476 ± 0.652	[3.6]	2.178 ± 0.457	[1.8]
Id4	0.096 ± 0.030	0.489 ± 0.045	[5.1]	0.496 ± 0.124	[5.2]	0.201 ± 0.094	[2.1]

Mnx1	0.004 ± 0.002	0.328 ± 0.093	[87.3]	0.308 ± 0.092	[82.2]	0.127 ± 0.006	[33.8]
Pax6	0.144 ± 0.037	10.72 ± 2.081	[74.3]	12.26 ± 3.797	[84.9]	8.555 ± 0.156	[59.3]
Pitx1	0.527 ± 0.173	14.39 ± 2.152	[27.3]	13.940 ± 8.975	[26.4]	7.412 ± 3.487	[14.1]
Rnf24	0.019 ± 0.006	0.067 ± 0.048	[3.4]	0.076 ± 0.025	[3.9]	0.035 ± 0.011	[1.8]
Satb1	0.508 ± 0.196	3.459 ± 1.197	[6.8]	3.326 ± 0.375	[6.6]	1.884 ± 0.278	[3.7]

group 2B: genes highly expressed in all endocrine areas

	area N	**area A**		**area B**		**area C**	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Dach1	0.042 ± 0.040	0.575 ± 0.271	[13.6]	0.385 ± 0.117	[9.1]	0.422 ± 0.167	[10.0]
Irx2	0.099 ± 0.097	3.792 ± 0.574	[38.2]	5.263 ± 0.941	[53.0]	4.919 ± 0.752	[49.5]
Hnf4g	0.019 ± 0.008	0.054 ± 0.021	[2.9]	0.039 ± 0.016	[2.1]	0.061 ± 0.007	[3.2]
Rora	0.135 ± 0.052	0.417 ± 0.062	[3.1]	0.363 ± 0.052	[2.7]	0.301 ± 0.053	[2.2]
Stat3	0.722 ± 0.189	3.469 ± 0.937	[4.8]	2.718 ± 0.849	[3.8]	1.858 ± 0.209	[2.6]
Tal1	0.243 ± 0.136	2.254 ± 0.469	[9.3]	1.615 ± 1.158	[6.6]	2.163 ± 1.142	[8.9]

group 3: genes enriched in area B

	area N	**area A**		**area B**		**area C**	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Mafb	0.548 ± 0.263	20.51 ± 3.562	[37.5]	36.33 ± 9.759	[66.3]	22.60 ± 4.404	[41.3]
Pdx1	0.184 ± 0.041	2.247 ± 0.096	[12.2]	2.458 ± 0.395	[13.4]	1.549 ± 0.374	[8.4]
Sox12	0.255 ± 0.039	0.670 ± 0.126	[2.6]	0.883 ± 0.028	[3.5]	0.552 ± 0.030	[2.2]
Zhx2	0.096 ± 0.038	0.311 ± 0.036	[3.2]	0.299 ± 0.049	[3.1]	0.178 ± 0.047	[1.9]

group 4: genes enriched in area C

	area N	**area A**		**area B**		**area C**	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Asb4	0.444 ± 0.041	0.653 ± 0.261	[1.5]	0.912 ± 0.131	[2.1]	1.146 ± 0.058	[2.6]
Hopx	0.022 ± 0.012	0.730 ± 0.261	[32.8]	0.770 ± 0.174	[34.6]	1.718 ± 0.270	[77.2]
Mafa	0.001 ± 0.001	0.005 ± 0.002	[4.0]	0.007 ± 0.003	[5.2]	0.138 ± 0.090	[106.1]
Myt1l	0.004 ± 0.002	0.137 ± 0.054	[37.2]	0.390 ± 0.206	[105.5]	0.392 ± 0.163	[106.3]

group 5: genes enriched in area N ([A], [B], [C] < 0.25 X [N])

	area N	**area A**		**area B**		**area C**	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Barx1	0.133 ± 0.040	0.004 ± 0.003	[0.03]	0.003 ± 0.001	[0.02]	0.000 ± 0.000	[0.00]
Ebf1	0.956 ± 0.233	0.087 ± 0.078	[0.09]	0.044 ± 0.040	[0.05]	0.009 ± 0.003	[0.01]
Ebf2	2.398 ± 1.334	0.015 ± 0.013	[0.01]	0.018 ± 0.013	[0.01]	0.006 ± 0.005	[0.00]
Gata3	3.155 ± 3.527	0.329 ± 0.322	[0.10]	0.041 ± 0.047	[0.01]	0.046 ± 0.043	[0.01]
Gata4	8.649 ± 1.508	0.600 ± 0.330	[0.07]	0.262 ± 0.096	[0.03]	0.115 ± 0.032	[0.01]
Gli3	1.546 ± 0.173	0.233 ± 0.208	[0.15]	0.073 ± 0.026	[0.05]	0.042 ± 0.013	[0.03]
Hoxb5	0.296 ± 0.154	0.016 ± 0.017	[0.05]	0.020 ± 0.018	[0.07]	0.004 ± 0.003	[0.01]
Id3	1.296 ± 0.141	0.197 ± 0.045	[0.15]	0.088 ± 0.036	[0.07]	0.108 ± 0.030	[0.08]
Myc	1.359 ± 0.271	0.229 ± 0.028	[0.17]	0.175 ± 0.058	[0.13]	0.341 ± 0.054	[0.25]
Prrx1	2.566 ± 0.425	0.311 ± 0.352	[0.12]	0.110 ± 0.063	[0.04]	0.032 ± 0.022	[0.01]
Ptf1a	143.9 ± 164.1	0.210 ± 0.221	[0.00]	0.083 ± 0.066	[0.00]	0.019 ± 0.013	[0.00]

Rbpjl	10.99 ± 2.740	0.193 ± 0.071	[0.02]	0.083 ± 0.025	[0.01]	0.022 ± 0.011	[0.00]
Snail1	0.088 ± 0.025	0.003 ± 0.003	[0.04]	0.005 ± 0.004	[0.06]	0.001 ± 0.000	[0.01]
Snail2	0.297 ± 0.206	0.006 ± 0.006	[0.02]	0.002 ± 0.001	[0.01]	0.015 ± 0.009	[0.05]
Tbx2	0.034 ± 0.007	0.002 ± 0.001	[0.07]	0.001 ± 0.000	[0.03]	0.001 ± 0.000	[0.02]
Tcf21	0.355 ± 0.046	0.010 ± 0.007	[0.03]	0.010 ± 0.003	[0.03]	0.005 ± 0.000	[0.02]
Twist2	6.018 ± 3.835	0.440 ± 0.530	[0.07]	0.260 ± 0.304	[0.04]	0.277 ± 0.177	[0.05]

group 6: genes enriched in both area A and area N

group 6A: 1.0 < [A]/[N] <2.0, [B]/[N]<1.0, [C]/[N]<0.50

	area N	area A		area B		area C	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Atoh8	0.090 ± 0.020	0.109 ± 0.046	[1.2]	0.027 ± 0.011	[0.30]	0.006 ± 0.001	[0.07]
Fosl2	0.300 ± 0.108	0.310 ± 0.037	[1.0]	0.150 ± 0.023	[0.50]	0.134 ± 0.036	[0.45]
Foxa3	3.097 ± 0.701	3.848 ± 1.668	[1.2]	1.565 ± 0.507	[0.51]	1.111 ± 0.149	[0.36]
Hes1	0.697 ± 0.221	0.944 ± 0.419	[1.4]	0.273 ± 0.245	[0.39]	0.030 ± 0.008	[0.04]
Id2	6.342 ± 1.760	6.471 ± 1.061	[1.0]	2.384 ± 0.334	[0.38]	0.531 ± 0.145	[0.08]
Mycn	0.029 ± 0.009	0.051 ± 0.001	[1.8]	0.015 ± 0.004	[0.51]	0.008 ± 0.003	[0.27]
Notch2	0.298 ± 0.094	0.440 ± 0.117	[1.5]	0.170 ± 0.063	[0.57]	0.054 ± 0.012	[0.18]
Onecut1	1.527 ± 0.262	2.907 ± 1.197	[1.9]	0.676 ± 0.453	[0.44]	0.023 ± 0.018	[0.01]
Tcf7l2	1.844 ± 0.422	3.532 ± 0.645	[1.9]	1.598 ± 0.567	[0.87]	0.507 ± 0.020	[0.27]

group 6B: 0.25 < [A]/[N] <1, [A] > [B], [C]

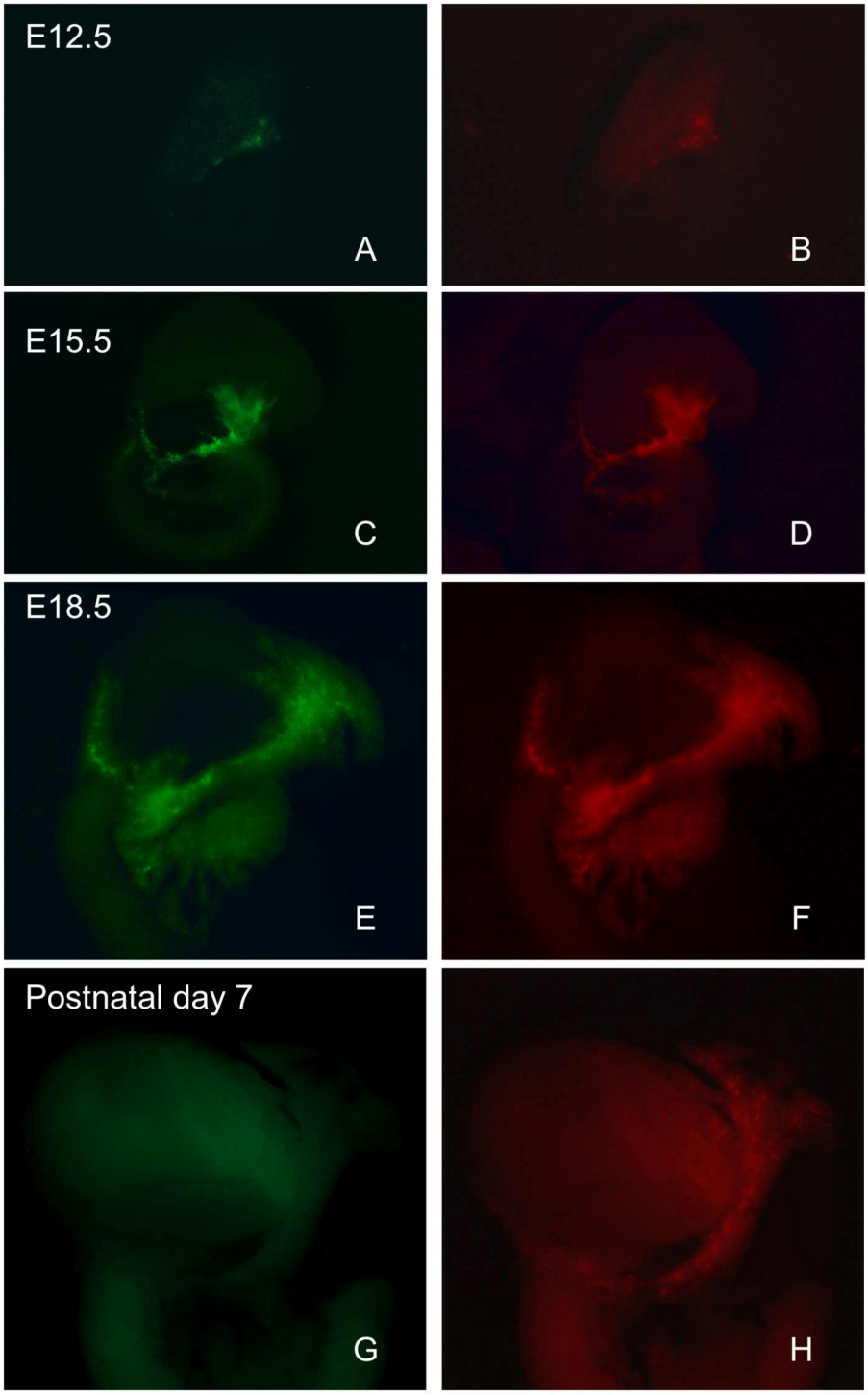
	area N	area A		area B		area C	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Ahr	0.364 ± 0.082	0.324 ± 0.132	[0.89]	0.130 ± 0.050	[0.36]	0.108 ± 0.028	[0.30]
Grhl3	0.050 ± 0.002	0.014 ± 0.016	[0.28]	0.010 ± 0.008	[0.21]	0.012 ± 0.006	[0.25]
Hand1	0.173 ± 0.084	0.082 ± 0.017	[0.47]	0.016 ± 0.010	[0.09]	0.018 ± 0.016	[0.10]
Hey1	0.126 ± 0.050	0.079 ± 0.057	[0.62]	0.010 ± 0.010	[0.08]	0.017 ± 0.010	[0.14]
Id1	12.910 ± 2.345	3.718 ± 0.788	[0.29]	0.951 ± 0.362	[0.07]	0.956 ± 0.220	[0.07]
Jundm2	0.622 ± 0.168	0.278 ± 0.115	[0.45]	0.239 ± 0.103	[0.38]	0.038 ± 0.029	[0.06]
Neurog1	1.943 ± 0.306	0.949 ± 0.422	[0.49]	0.839 ± 0.277	[0.43]	0.574 ± 0.191	[0.30]
Nkx6-2	0.832 ± 0.857	0.323 ± 0.036	[0.39]	0.063 ± 0.032	[0.08]	0.049 ± 0.047	[0.06]
Notch1	0.120 ± 0.026	0.065 ± 0.029	[0.54]	0.032 ± 0.010	[0.26]	0.043 ± 0.014	[0.35]
Phox2b	0.005 ± 0.004	0.001 ± 0.000	[0.29]	0.000 ± 0.000	[0.06]	0.001 ± 0.000	[0.11]
Rxrg	0.106 ± 0.094	0.036 ± 0.011	[0.34]	0.010 ± 0.010	[0.09]	0.000 ± 0.000	[0.00]
Sox11	0.201 ± 0.157	0.113 ± 0.110	[0.56]	0.027 ± 0.015	[0.14]	0.069 ± 0.042	[0.34]

group 7: others

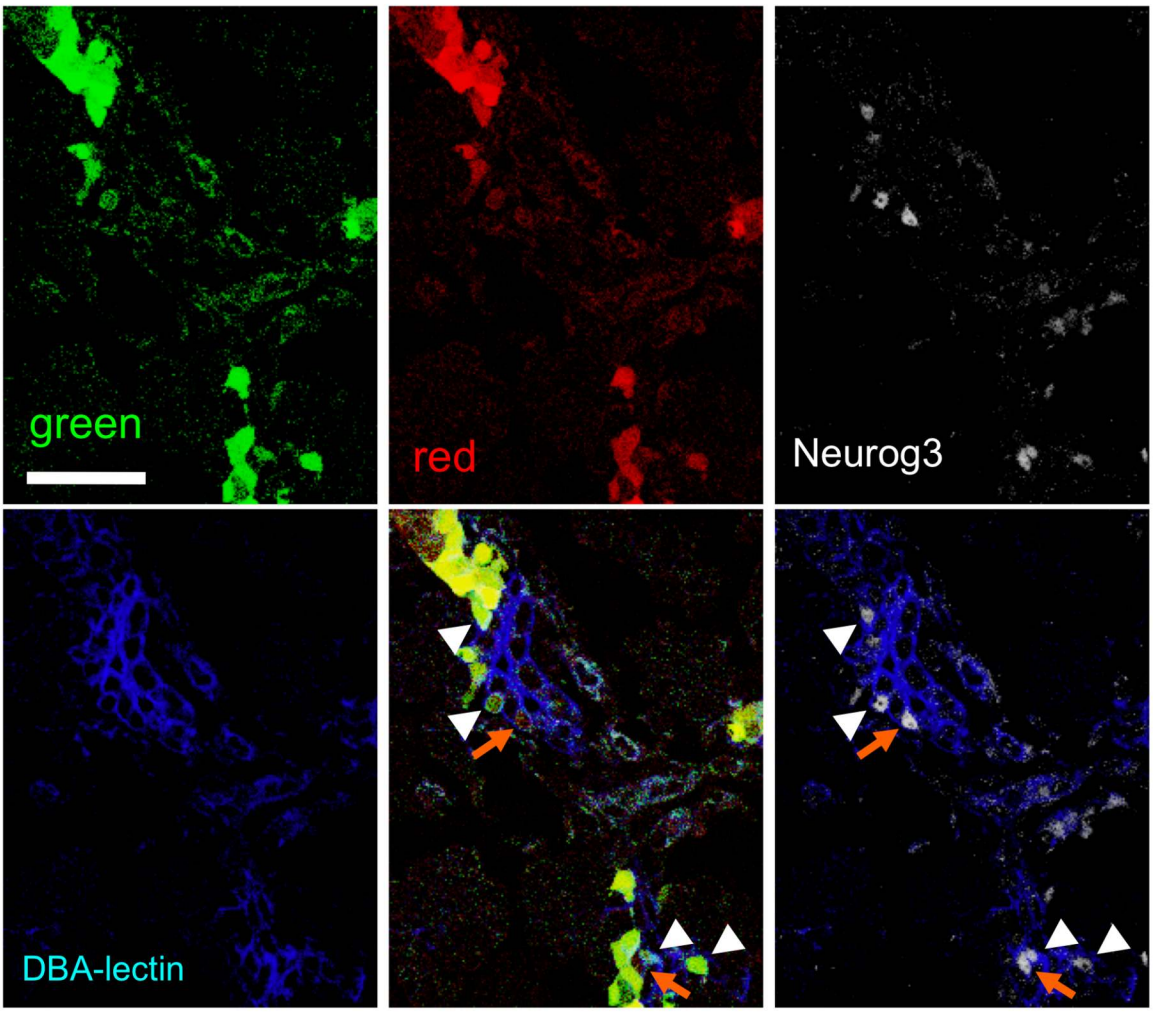
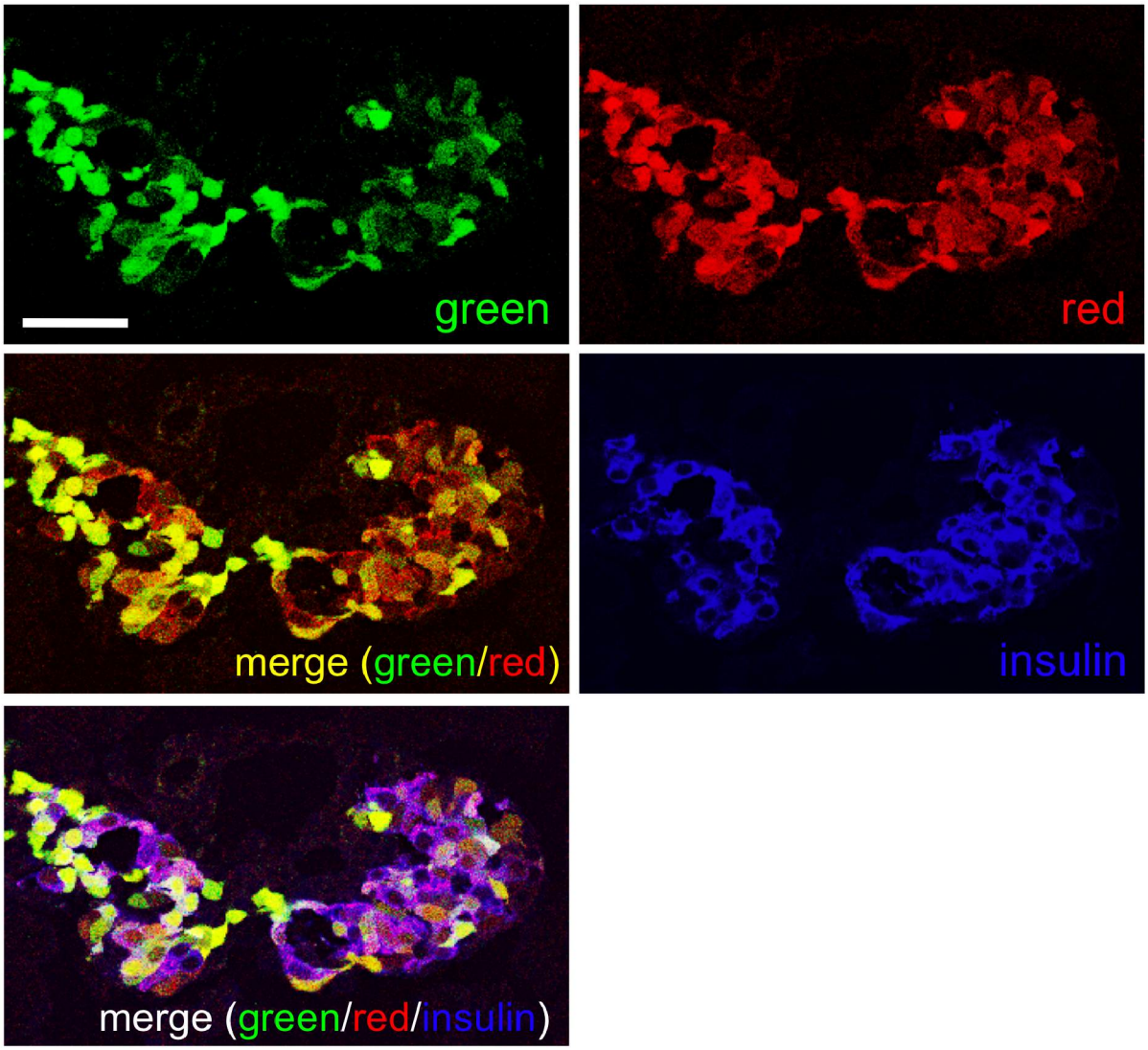
	area N	area A		area B		area C	
	$2^{-\Delta CT}$ ± SE	$2^{-\Delta CT}$ ± SE	[A]/[N]	$2^{-\Delta CT}$ ± SE	[B]/[N]	$2^{-\Delta CT}$ ± SE	[C]/[N]
Gata6	1.627 ± 0.243	3.238 ± 0.663	[1.99]	1.906 ± 0.837	[1.2]	0.955 ± 0.176	[0.6]
Stat1	1.784 ± 0.357	2.206 ± 0.253	[1.2]	1.596 ± 0.369	[0.89]	1.680 ± 0.250	[0.94]
Btf3	191.94 ± 32.72	296.3 ± 143.4	[1.5]	176.9 ± 57.52	[0.92]	102.0 ± 33.21	[0.53]
Nfat5	3.582 ± 3.022	5.294 ± 0.852	[1.5]	4.494 ± 2.012	[1.3]	5.321 ± 3.842	[1.5]
Nr3c1	1.446 ± 0.187	2.188 ± 0.187	[1.5]	2.034 ± 0.327	[1.4]	1.134 ± 0.155	[0.8]
Preb	3.035 ± 0.489	4.985 ± 0.833	[1.6]	3.308 ± 0.558	[1.1]	2.637 ± 0.532	[0.87]

Six2	0.069 ± 0.025	0.131 ± 0.127	[1.9]	0.066 ± 0.022	[1.0]	0.072 ± 0.038	[1.0]
Hmga2	0.046 ± 0.010	0.060 ± 0.017	[1.3]	0.046 ± 0.007	[1.0]	0.008 ± 0.005	[0.17]
Nfya	0.369 ± 0.130	0.584 ± 0.069	[1.6]	0.571 ± 0.148	[1.5]	0.135 ± 0.069	[0.4]
Nr1h2	0.024 ± 0.015	0.005 ± 0.002	[0.19]	0.014 ± 0.008	[0.56]	0.005 ± 0.004	[0.20]
Nr1h3	0.076 ± 0.044	0.052 ± 0.016	[0.68]	0.026 ± 0.002	[0.35]	0.081 ± 0.030	[1.1]
Nr1h4	0.194 ± 0.019	0.197 ± 0.077	[1.0]	0.239 ± 0.041	[1.2]	0.317 ± 0.085	[1.6]
Nr4a1	0.365 ± 0.167	0.556 ± 0.492	[1.5]	0.367 ± 0.205	[1.0]	0.210 ± 0.065	[0.6]
Runx2	0.084 ± 0.096	0.003 ± 0.001	[0.04]	0.036 ± 0.029	[0.43]	0.009 ± 0.009	[0.11]
Tbx6	0.012 ± 0.005	0.003 ± 0.002	[0.26]	0.016 ± 0.010	[1.3]	0.003 ± 0.002	[0.26]
Trps1	0.430 ± 0.218	0.605 ± 0.233	[1.4]	0.343 ± 0.103	[0.80]	0.171 ± 0.070	[0.40]
Zfp263	0.009 ± 0.004	0.008 ± 0.001	[1.0]	0.007 ± 0.002	[0.9]	0.009 ± 0.007	[1.0]

Supplementary Fig. 1: DsRed-E5 fluorescence in the developing pancreas. Gross appearance and fluorescence within the abdomen of Ngn3-Timer mice were observed using a fluorescent dissecting microscope at E12.5 (a, b), E15.5 (c, d), E18.5 (e, f), and postnatal day7 (g, h).



Supplementary Fig. 2: Ngn3 expression in fluorescent cells. The pancreas was dissected from an Ngn3-Timer embryo at E17.5, and stained with anti-Ngn3 antibody (white) and DBA lectin (blue). White arrowheads indicate cells co-expressing Neurogenin3 and DsRed-E5; orange arrows indicate cells expressing Neurogenin3 alone. Scale bar, 50 μm.



Supplementary Fig. 3: Insulin expression in fluorescent cells. The pancreas was dissected from an Ngn3-Timer embryo at E17.5, and stained with anti-insulin antibody (blue). Scale bar, 50 μm.