

Supporting Information

Guerau-de-Arellano *et al.* 10.1073/pnas.0806616105

Table S1. List of Aire-induced genes common to islets and MECs

Name	Gene title	Gene symbol	Islet FC	MEC FC
1435314.at	Tryptophan hydroxylase 2	Tph2	13.69	3.52
1417976.at	Adenosine deaminase	Ada	10.75	2.03
1416809.at	Cytochrome P450, family 3, subfamily a, polypeptide 11	Cyp3a11	8.3	3.41
1418438.at	Fatty acid-binding protein 2, intestinal	Fabp2	6.96	7.58
1424451.at	Acetyl-Coenzyme A acyltransferase 1B	Acaa1b	6.42	2.15
1431077.at	Alkaline phosphatase, intestinal	Alpi	5.9	2.11
1438840.x.at	Apolipoprotein A-I	Apoa1	5.2	5.13
1419473.a.at	Cholecystokinin	Cck	4.82	5.52
1455201.x.at	Apolipoprotein A-I	Apoa1	4.65	5.08
1439768.x.at	Sema domain, immunoglobulin domain (Ig), TM domain, and short cytoplasmic domain	Sema4f	4.52	2.35
1418486.at	Vanin 1	Vnn1	4.45	7.41
1455593.at	Apolipoprotein B	Apob	4.44	4.9
1419232.a.at	Apolipoprotein A-I	Apoa1	4.31	5.38
1447845.s.at	Vanin 1	Vnn1	4.15	7.41
1438751.at	Solute carrier family 30, member 10	Slc30a10	4.05	2.11
1448764.a.at	Fatty acid-binding protein 1, liver	Fabp1	3.87	2.6
1419233.x.at	Apolipoprotein A-I	Apoa1	3.86	3.76
1455796.x.at	Olfactomedin 1	Olfm1	3.81	5.05
1423422.at	Ankyrin repeat and SOCS box-containing protein 4	Asb4	3.56	6.49
1416783.at	Tachykinin 1	Tac1	3.5	8.93
1433919.at	Ankyrin repeat and SOCS box-containing protein 4	Asb4	3.4	11.76
1449070.x.at	Adenomatous polyposis coli down-regulated 1	Apcdd1	3.28	2.1
1439816.at	Predicted gene, EG433270	EG433270	3.24	2.06
1417556.at	Fatty acid-binding protein 1, liver	Fabp1	3.21	3
1426255.at	Neurofilament, light polypeptide	Nefl	3.17	4.02
1453715.at	Synaptic vesicle glycoprotein 2c	Sv2c	3.09	2.36
1455978.a.at	Matrilin 2	Matn2	3.03	4.17
1458345.s.at	Collectin sub-family member 11	Colec11	3.03	6.45
1456379.x.at	Delta/notch-like EGF-related receptor	Dner	2.99	5.75
1454822.x.at	Adenomatous polyposis coli down-regulated 1	Apcdd1	2.98	2.58
1460214.at	Purkinje cell protein 4	Pcp4	2.96	9.26
1422530.at	Similar to peripherin 1	LOC673890	2.95	2.36
1418282.x.at	Serine (or cysteine) peptidase inhibitor, clade A, member 1b	Serpina1b	2.9	3.14
1436188.a.at	N-myc downstream-regulated gene 4	Ndr4	2.9	2.98
1435767.at	Sodium channel, voltage-gated, type III, beta	Scn3b	2.88	2.28
1422520.at	Neurofilament, medium polypeptide	Nefm	2.86	2.61
1454677.at	Tissue inhibitor of metalloproteinase 2	Timp2	2.85	2.19
1417746.at	Complexin 1	Cplx1	2.85	2.75
1425784.a.at	Olfactomedin 1	Olfm1	2.81	2.16
1437052.s.at	Solute carrier family 2 (facilitated glucose transporter), member 3	Slc2a3	2.8	3.82
1416306.at	Chloride channel calcium-activated 3	Clca3	2.79	2.6
1425645.s.at	Cytochrome P450, family 2, subfamily b, polypeptide 10	Cyp2b10	2.77	2.6
1424041.s.at	Complement component 1, s subcomponent	C1 s	2.75	2.16
1457296.at	Cartilage intermediate-layer protein, nucleotide pyrophosphohydrolase	Cilp	2.75	14.93
1454672.at	—	—	2.74	2.26
1451513.x.at	Serine (or cysteine) peptidase inhibitor, clade A, member 1a/1b	Serpina1a/1b	2.67	2.34
1434202.a.at	cDNA sequence BC055107	BC055107	2.66	2.82
1423671.at	Delta/notch-like EGF-related receptor	Dner	2.64	2.79
1451194.at	Aldolase 2, B isoform	Aldob	2.63	2.62
1448323.a.at	Biglycan	Bgn	2.61	5.32
1426712.at	Solute carrier family 6 (neurotransmitter transporter), member 15	Slc6a15	2.58	11.49
1448745.s.at	Loricrin	Lor	2.53	3.77
1433434.at	Expressed sequence AW551984	AW551984	2.46	3.44
1423110.at	Procollagen, type I, alpha 2	Col1a2	2.45	2.03
1449240.at	G substrate	Gsbs	2.43	7.35

Table S1. *Continued*

Name	Gene title	Gene symbol	Islet FC	MEC FC
1455893_at	R-spondin 2 homolog (<i>Xenopus laevis</i>)	Rspo2	2.38	4.42
1433787_at	NEL-like 1 (chicken)	Nell1	2.38	4.74
1417061_at	Solute carrier family 40 (iron-regulated transporter), member 1	Slc40a1	2.38	2.71
1425763_x_at	Immunoglobulin heavy chain (J558 family)	Igh-VJ558	2.37	4.42
1451236_at	RAS-like, estrogen-regulated, growth-inhibitor	Rerg	2.37	2.01
1449106_at	Glutathione peroxidase 3	Gpx3	2.37	2.71
1448123_s_at	Transforming growth factor, beta-induced	Tgfb1	2.36	2.7
1435551_at	Formin homology 2 domain-containing 3	Fhod3	2.35	2.06
1426766_at	RIKEN cDNA 6330403K07 gene	6330403K07Rik	2.34	5.38
1415923_at	Necdin	Ndn	2.33	2.33
1416405_at	Biglycan	Bgn	2.33	6.25
1435382_at	Necdin	Ndn	2.31	2.39
1448832_a_at	Complexin 1	Cplx1	2.3	2.19
1426615_s_at	N-myc downstream- regulated gene 4	Ndrng4	2.27	2.73
1421653_a_at	Immunoglobulin heavy chain (J558 family)	Igh-VJ558	2.26	5.1
1451446_at	Anthrax toxin receptor 1	Antxr1	2.26	2.13
1456250_x_at	Transforming growth factor, beta-induced	Tgfb1	2.26	2.56
1449254_at	Secreted phosphoprotein 1	Spp1	2.25	3.61
1455907_x_at	Paired-like homeobox 2b	Phox2b	2.25	3.46
1415885_at	Chromogranin B	Chgb	2.25	4.2
1435383_x_at	Necdin	Ndn	2.23	2.4
1417133_at	Peripheral myelin protein	Pmp22	2.22	2.02
1455792_x_at	Necdin	Ndn	2.22	2.14
1451440_at	Chondrolectin	Chodl	2.21	2.58
1437463_x_at	Transforming growth factor, beta-induced	Tgfb1	2.17	2.5
1416625_at	Serine (or cysteine) peptidase inhibitor, clade G, member 1	Serping1	2.16	2.15
1452035_at	Procollagen, type IV, alpha 1	Col4a1	2.13	2.04
1421882_a_at	ELAV (embryonic lethal, abnormal vision, <i>Drosophila</i>)-like 2 (Hu antigen B)	Elavl2	2.12	2.43
1416200_at	interleukin 33	Il33	2.12	5.85
1425102_a_at	Angiotensin I-converting enzyme (peptidyl-dipeptidase A) 2	Ace2	2.11	2.07
1455898_x_at	Solute carrier family 2 (facilitated glucose transporter), member 3	Slc2a3	2.11	3.5
1429896_at	RIKEN cDNA 5830408B19 gene	5830408B19Rik	2.1	2.24
1428664_at	Vasoactive intestinal polypeptide	Vip	2.08	8.93
1457352_x_at	RIKEN cDNA 9430071P14 gene	9430071P14Rik	2.05	2.19
1437671_x_at	Protease, serine, 23	Prss23	2.04	2.18
1437889_x_at	Biglycan	Bgn	2.03	3.92
1438531_at	RIKEN cDNA A730054J21 gene	A730054J21Rik	2.02	2.04
1416454_s_at	Actin, alpha 2, smooth muscle, aorta	Acta2	2.02	2.15
1452114_s_at	Insulin-like growth factor binding protein 5	Igfbp5	2	2.6

Table S2. List of Aire-repressed genes common to islets and MECs

Probe set	Gene title	Gene symbol	Islet FC	MEC FC
1440781_at	RIKEN cDNA B830007D08 gene	B830007D08Rik	0.34	0.46
1458591_at	RAS and EF hand domain-containing	Rasef	0.34	0.40
1450344.a_at	Prostaglandin E receptor 3 (subtype EP3)	Ptger3	0.37	0.50
1439638_at	ErbB2-interacting protein	ErbB2ip	0.47	0.45
1437935_at	RIKEN cDNA 4930486G11 gene	4930486G11Rik	0.48	0.36
1441623_at	Transcribed locus	—	0.49	0.50