

**S3 Table. Top 30 genes with low proximal DA/aorta ratio.**

Gene name	Gene symbol	Fold change (proDA/aorta)	NCBI ref seq	Probe ID	gene ID
microRNA 1329	<i>mir1329</i>	0.64	NR_035009	15492062	100315694
solute carrier family 1 (glial high affinity glutamate transporter), member 3	<i>slc1a3</i>	0.67		15557705	395443
guanylate cyclase 1 soluble subunit alpha	<i>gucy1a3</i>	0.67	BX933178	15502379	422407
angiotensin I converting enzyme	<i>ace</i>	0.68	NM_001167732	15480996	419953
spermatogenesis associated 13	<i>spata13</i>	0.69	CR389315	15395669	418940
opioid receptor, mu 1	<i>oprm1</i>	0.69		15489262	421644
spermatogenesis associated 13	<i>spata13</i>	0.70		15395671	418940
clone 840 GGN101 snoRNA		0.70	EU240316	15536100	
family with sequence similarity 46, member C	<i>fam46</i>	0.70	NM_001007972	15402678	426544
GLIS family zinc finger 1	<i>glis1</i>	0.71		15544262	424652
heparanase 2	<i>hpse2</i>	0.71	XM_421704	15526875	423834
papilin, proteoglycan-like sulfated glycoprotein	<i>papln</i>	0.72		15521735	42887
protein tyrosine phosphatase, receptor type, O	<i>ptpro</i>	0.72	NM_204122	15389071	373911
KIAA1644	<i>kiaa1644</i>	0.74		15401776	100857276

adenylate cyclase activating polypeptide 1 (pituitary) receptor type I	<i>adcyap1r1</i>	0.74	NM_001098606	15448093	420386
alpha-1,4-N-acetylglucosaminyltransferase	<i>a4gnt</i>	0.74	XM_426692	15545524	429136
hepatocyte growth factor (hepapoietin A; scatter factor)	<i>hgf</i>	0.74	NM_001030370	15384844	395941
CUB and Sushi multiple domains 1	<i>csmd1</i>	0.74		15491766	421899
gamma-aminobutyric acid (GABA) A receptor, beta 2	<i>gabrb2</i>	0.75	X72806	15422949	414890
collagen, type XV, alpha 1	<i>col15a1</i>	0.75		15451458	420803
protein phosphatase 4, regulatory subunit 4	<i>ppp4r4</i>	0.75	XM_421339	15517524	423430
single-minded homolog 2 (Drosophila)	<i>sim2</i>	0.75	XM_416724	15392089	418515
neuropeptide Y	<i>npy</i>	0.76	NM_205473	15450094	396464
family with sequence similarity 19 (chemokine (C-C motif)-like), member A2	<i>fam19a2</i>	0.76		15398714	771745
Ig heavy chain V-III region VH26-like	<i>loc430014</i>	0.76		15554626	430014
collagen, type XXI, alpha 1	<i>col21a1</i>	0.76		15491621	421885
family with sequence similarity 110, member B	<i>fam110b</i>	0.76	XM_419215	15453999	421134
ATPase, H <sup>+</sup> transporting, lysosomal 42kDa, V1 subunit C2	<i>atp6v1c2</i>	0.76	XM_419951	15492047	421939
collagen, type XXIII, alpha 1	<i>col23a1</i>	0.76		15424012	425481
leucine rich repeat containing 8 family, member B	<i>lrrc8b</i>	0.77		15543240	424516

